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NAS FORT WORTH
5090.3a

VARIOUS SUBMITTALS FOR LIQUID PETROLEUM STORAGE TANKS WITH TRANSMITTAL LETTER NAS FORT WORTH TX
6/2/1999
AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE

615 0 File: 17G P.W.

NAVAL AIR STATION FORT WORTH JRB CARSWELL FIELD TEXAS

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 615

615 1 File: P.W. 17A-57 615

JUN 0 4 REC'D

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE TEXAS

2 June, 1999

Files:
17A-? DERA
USTs
17C-9-3

MEMORANDUM FOR ANTONIO PEÑA (TNRCC)

FROM: HQ AFCEE/ERD
3207 North Road
Brooks AFB, TX 78235

SUBJECT: UST Correspondence
LPST site 100485, Bldg 4210 - Closure Request
LPST site 093351, Bldg 1140 - Closure Request
LPST site N/A, Bldg 1658 - Release Determination Report
LPST site N/A, Bldg 1518 - Release Determination Report
Facility ID No. 009696
NAS Fort Worth JRB, Texas

Dear Mr. Peña,

As required by 30 TAC 334, the Air Force hereby submits the documents listed above for your review and comment.

Should you have any questions or comments, please contact me at (210)536-5290.

Sincerely,

Joseph R. Dunkle
Remedial Project Manager
NAS Fort Worth JRB

Enclosures

Printed on Recycled Paper

cc:
Michael Dodyk
AFCEE/ERD
P.O. BOX 27008
Fort Worth, TX 76127

Todd Harrah
UNITEC
3202 2nd Street, Bldg. 538
Brooks AFB, TX 78235

Lance Key
1215 Depot Avenue, Suite 115
NAS Ft. Worth JRB, TX 76127

Wayne Mackenzie
Director
NAS Fort Worth Environmental Management, N92
Building 1501
NAS Fort Worth JRB, TX 76127-6200

Alvin Brown
AFBCA/ROL Bergstrom
3711 Fighter Drive
Austin, TX 78719-2557

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
CORRESPONDENCE IDENTIFICATION SHEET

Date: June 1, 1999
Site Name: Building 4210, NAS Fort Worth JRB
Site Address: Building 4210
NAS Fort Worth JRB, Texas

LPST ID No.: 100485
Facility ID No.: 0009696

This checklist **must** accompany all correspondence submitted to the RPR Section and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence which you have submitted to the RPR Section. Check all boxes that apply if you are submitting more than one type of correspondence. If you cannot find an appropriate category, please complete the "other" section.

PROPOSALS

- ☐ Initial Abatement (1)
- ☐ Tank Removal (2)
- ☐ Excavation (3)
- ☐ Waste Treatment (4)
- ☐ Site Assessment (5)
- ☐ Aquifer Testing (6)
- ☐ VES/Sparge Testing (7)
- ☐ Qtrly. GW Monitoring (8)
- ☐ CAP Prep. (9)
- ☐ GW Extrac./Treatment (10)
- ☐ Soil Vapor Extrac (11)
- ☐ Operation & Main. (12)
- ☐ Site Closure (13)
- ☐ Plan A Risk Ass. (14)
- ☐ Plan B Risk Ass. (15)
- ☐ Semi-annual GW Mon. (16)*
- ☐ Annual GW Mon. (18)
- ☐ Product Recovery (19)
- ☐ Other proposal _____

REPORTING FORMS

- ☐ Assessment Report Form (TNRCC-0562)
- ☐ LPST Case Questionnaire
- ☐ Product Recovery Report Form (TNRCC-0016)
- ☐ Release Report Form (TNRCC-0621)
- ☒ Site Closure Request Form (TNRCC-0028)
- ☐ Monitoring Event Summary and Status Report (TNRCC-0013)
- ☐ Final Site Closure Report Form (TNRCC-0038)
- ☐ Priority 4 LPST Case Closure Request Form (TNRCC-0461)
- ☐ Other form _____

REPORTS

- ☐ Tank Closure/Removal
- ☐ Plan A Risk Assessment
- ☐ Annual Groundwater Monitoring
- ☐ O&M/Performance Mon.
- ☐ Plan B Risk Assessment
- ☐ CAP Installation/Modification
- ☐ Property Divestiture/Phase I ESA
- ☐ Corrective Action Plan (CAP)
- ☐ Aquifer/Pilot Test Results

MISCELLANEOUS

- ☐ Off-site access assistance
- ☐ Deadline Extension Request
- ☐ Tank tightness test results
- ☐ Request for State-Lead
- ☐ Request for LPST Waste Code
- ☐ Class V Reinjection Request
- ☐ Notice to Owner/Operator for CAS Services
- ☐ Petroleum-Substance Waste Manifest
- ☐ Notice of Continuation of Groundwater Monitoring
- ☐ Underground Storage Tank Registration Form
- ☐ Notice of Continuation of Operation and Maintenance
- ☐ Aboveground Storage Tank Registration Form
- ☐ Other (anything that does not fit into one of the categories above) _____

* The proposal for semi-annual monitoring and annual report (Proposal Activity 17) has been discontinued. For semi-annual monitoring, use Proposal Activity 16.

I attest that all work has been conducted in accordance with accepted industry standards/practices and adhered to TNRCC guidance and rules I certify that I am aware that misrepresentation of any of the above claims is a violation of 30 TAC 33.4453(b)(1)(E) and that this violation may result in the disciplinary actions set forth in 30 TAC 334.453 and or 334.463 and 334.465.

If a proposal is attached for preapproval, has the proposed work, in part or in whole, already been performed or in progress? ☐ Yes ☐ No

If yes, what work?_____

HydroGeoLogic, Inc.	RCAS00700	6/11/2000
(Registered Corrective Action Specialist)	(RCAS Reg No)	(Expiration date)

Virginia Rochford (Signature) 5/27/99 (Date)

703/478-5186	703/471-4180
(Telephone #)	(Fax #)

Brad Nielsen	CAPM01291	2/10/2000
(Project Manager)	(CAPM Reg No)	(Expiration date)

(Signature) 5/28/99 (Date)

512/336-1170	512/336-0178
(Telephone #)	(Fax #)

By signature below, I certify that documents checked above are included.

Joseph Dunkle	HQ-AFCEE/ERD
(Name of Responsible Party Contact)	(Company)

(Signature) 6/1/99 (Date)

210/536-5290	210/536-9026
(Telephone #)	(Fax #)

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

LPST SITE CLOSURE REQUEST FORM

This form is to be used to request closure for Leaking Petroleum Storage Tank (LPST) cases. The soil and groundwater cleanup goals must be met prior to submitting this form. These cleanup goals should be derived from either:

- the TWC *Guidance Manual for LPST Cleanups in Texas*, January 1990 **so long as these goals were achieved prior to November 8, 1995**, or
- the TNRCC *Risk-Based Corrective Action for Leaking Storage Tank Sites* document, January 1994 (RG-36).

Submission of this Site Closure Request constitutes certification by the Responsible Party, Corrective Action Specialist (CAS), and Corrective Action Project Manager (CAPM) that all necessary corrective actions have been completed and final closure of the subject site is appropriate at this time. By signing this Site Closure Request, the Responsible Party, CAS, and CAPM acknowledges that no further corrective actions, with the exception of activities subsequently approved by the TNRCC, will be eligible for reimbursement after the RP's signature date. Although costs for activities such as groundwater monitoring or remediation system operation and maintenance may have been approved for an annual period, these activities should cease upon submission of the Site Closure Request as these activities will not be considered eligible for reimbursement beyond the date of the Site Closure Request. Additionally, any costs relating to site assessment or other corrective action activities will not be eligible for reimbursement if the activities are conducted after the date of the Site Closure Request, unless specifically approved by the TNRCC. If, upon review by the TNRCC, the TNRCC concurs that the site meets the conditions for final closure, the costs for closure activities necessary to restore the site to its original condition will be reviewed and approved as appropriate. If the TNRCC determines that the site does not meet the conditions for final closure, the TNRCC will request a workplan and cost proposal for the next appropriate corrective action activity necessary to proceed towards final closure unless appropriate activities have previously been approved. The only type of proposal that should be attached to the Site Closure Request is for site closure costs. Any proposals attached to the Site Closure Request for activities other than site closure will not be processed and will be withdrawn from consideration.

If any of the following apply, the site is not ready for closure and this form should not be submitted:

- **The appropriate LPST cleanup goals have not been met (a proposal for the next appropriate step should be submitted instead);**
- **Phase-separated hydrocarbons (>0.1 feet) currently exist at the site;**
- **The contaminant plume is increasing in size; or**
- **All wastes and other material generated from the site have not been properly disposed;**

Do not use this form:

- **if the release was not from a regulated underground or aboveground storage tank;**
- **for tank removal-from-service activities not associated with an LPST site (use the *Release Determination Report Form* (TNRCC-0621) or other appropriate format);**
- **for situations where the second set of confirmation samples collected during tank removal-from-service activities confirms suitability for closure (use the *Release Determination Report Form* (TNRCC-0621) or other appropriate format); or**
- **for shutdown of remediation systems or for plugging of monitor wells when site closure is not yet appropriate.**

If asked to initiate additional activities, submit a workplan and preapproval request for those activities on sites eligible for reimbursement. Please review the document entitled *Preapproval for Corrective Action Activities* (RG-111) for procedures on preapproval requests and the other PST guidance pamphlets and rules for additional information on LPST sites.

Complete all blanks and check "yes" or "no" for all inquiries. **IF A COMPLETED *ASSESSMENT REPORT FORM* (TNRCC-0562) WAS PREVIOUSLY SUBMITTED, YOU DO NOT NEED TO ANSWER THE QUESTIONS WITHIN THE DARK OUTLINED AREAS UNLESS THE INFORMATION HAS CHANGED.** If the question is not applicable to this site, indicate with N/A. If the answer to the question is unknown, please indicate. If space for supplemental information is needed, insert numbered footnote and provide brief supporting discussion in Section VI, Justification for Closure.

SITE CLOSURE REQUEST FORM

I. GENERAL INFORMATION

LPST ID No.: 100485 Facility ID No.: 0009696

Responsible Party: Joseph Dunkle, HQ-AFCEE/ERD

Responsible Party Address: 3207 North Road City: Brooks AFB State: TX Zip. 73235

Facility Name: Building 4210, NAS Fort Worth JRB

Facility Street Address. Building 4210

Facility City: NAS Fort Worth JRB County: Tarrant

What is the current use of site? (indicate all that apply):
☐ Residence[1] ☐ School or Day Care center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

What is the anticipated future use of the site? (indicate all that apply):
☐ Residence[1] ☐ School or Day Care center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

Adjacent property use (indicate all that apply):
☐ Residence[1] ☐ School or Day Care Center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

Distance to nearest off-site residence from property line: _____ feet in _____ direction.

Distance to nearest school or day care center from property line: _____ feet in _____ direction.

II. CLOSURE SCREENING INFORMATION

Based on the *Limited Site Assessment Report* form or the Risk-Based *Assessment Report Form* (TNRCC-0562), the site is currently a **Priority** 4.2 site. If the site priority has changed, list the other priorities that previously pertained to this site: _____

☐ Yes ☒ No	Have non-aqueous phase liquids (NAPL) ever been present at this site (including tankpit observation wells)? If yes, is NAPL present now (thickness ≥0.1 feet)? ☐ Yes ☐ No Current thickness: _____ ft. If NAPL is currently present, stop here and do not submit this form for case closure. Initiate or continue activities necessary for the removal of all recoverable NAPL at the site.
☒ Yes ☐ No	Were all soils, recovered contaminated groundwater, and any phase-separated hydrocarbons properly disposed of, treated, recycled or reused in accordance with TNRCC requirements? If No, stop here and do not submit this form Provide a proposal (if the site is eligible for reimbursement) to properly dispose or otherwise manage the wastes/materials or, if the site is not eligible for reimbursement, provide documentation of proper disposition of the wastes.
☒ Yes ☐ No	Do contaminant concentrations show a consistent decreasing or low static trend? If No, is the contaminant plume increasing in size? ☐ Yes ☐ No If Yes, stop here, do not submit this form, and initiate activities to control plume migration.

[1] See definition in 30 TAC 334.202

III. RELEASE ABATEMENT/REMEDIATION

Date Release Discovered: _____

Substance(s) released: (check all that apply) ❑ Gasoline ❑ Alcohol-blended fuel (Type and percentage of alcohol _____)
❑ Diesel ❑ Used Oil ❑ Jet Fuel (type:_____) ❑ Aviation Gasoline ❑ Other: (be specific)_____

Source of Release (specify all that apply):
❑ Spills/overfills ❑ Piping leaks ❑ Dispenser leaks ❑ Tank corrosion ❑ Other:_____

❑ Yes ❑ No Has a receptor survey been conducted?
❑ Yes ❑ No Has a water well inventory been conducted?

❑ Yes ☒ No	Have vapor impacts to buildings or utility lines ever been associated with this release? If Yes, specify the measures taken to abate the impact and indicate the latest date that an impact was noted:
❑ Yes ☒ No	Have subsurface utilities ever been affected with NAPL or vapors by this release? If Yes, indicate the latest date that an impact was noted:

If not already provided in *Release Determination Report Form* (TNRCC-0621), or if the information has changed since submittal of the *Release Determination Report*, indicate number of tanks currently and formerly located at this site (attach pages as necessary):

	Type (UST/AST)	Product Type	Size (approx. gal)	Date Removed from Service
Current:	N/A			
Former:	UST	JP-10	8,000	4/1/96
	UST	JP-10	8,000	4/1/96
	UST	JP-10	8,000	4/1/96
	UST	JP-10	2,000	4/1/96

☒ Yes ❑ No	If the tanks were permanently removed from service, were native soil samples collected from beneath the tanks **and** the entire length of the piping? If No, explain why not:
❑ Yes ☒ No	Was a new UST system installed? If Yes, indicate the date, number of tanks and their contents:
❑ Yes ☒ No	Are there any open excavations at the site? If Yes, state size, location, purpose, and status for each of the excavations:

Type(s) of soil remediation and time periods the remediation method was operational (indicate all that apply):
❑ Excavation _____ to _____ (dates), and
- ❑ Aboveground Bioremediation/Aeration _____ to _____ (dates), or
- ❑ Thermal Treatment _____ to _____ (dates), or
- ❑ Disposal _____ to _____ (dates).

❑ Soil Vapor Extraction _____ to _____ (dates).
❑ In-Situ Bioremediation _____ to _____ (dates).
☒ None

III. RELEASE ABATEMENT/REMEDIATION (Continued)

Type(s) of groundwater remediation and time periods the remediation method was operational (indicate all that apply):

- ☐ Groundwater Pump and Treat _____ to _____ (dates)
- ☐ Air Sparging/SVE _____ to _____ (dates)
- ☐ In-Situ Bioremediation _____ to _____ (dates)
- ☐ Other: _____ _____ to _____ (dates)
- ☒ None

☒ Yes ☐ No Were copies of all receipts and manifests to document disposition of all wastes submitted to the TNRCC? If No, attach copies to this form.

Measured total volume of NAPL recovered: 0 gallons.

Estimated total volume of soil treated/removed: 0 cubic yards (exclude soil cuttings removed from borings).

Estimated total volume of groundwater treated/removed: 0 gallons (if known).

Estimated pounds of hydrocarbons removed or treated from soil (if known): 0

Estimated pounds of hydrocarbons removed or treated from groundwater (if known): 0

Estimated percent of total contaminants removed or treated (if known): 0

IV. SOIL DATA VALIDATION

Are there now affected surface soils (contamination exceeding health-based target concentrations) present within 2 feet below the ground surface? ❑ Yes ☒ No ❑ Unknown

Type of surface cover over affected surface soil area:

❑ Paved [❑ Asphalt or ❑ Concrete] Percent of affected soils covered? _____ ☒ Unpaved

❑ Other:_____

Is there public access to the uncovered affected surface soil area? ❑ Yes ☒ No

Total number of borings:_____7_____ (including those completed as monitor wells)

☒ Yes ❑ No Was the vertical and horizontal extent of soil impacts defined (to the more stringent of health-based target or groundwater protective soil concentrations horizontally and to groundwater or nondetect vertically) by the borings?

❑ Yes ☒ No Are shallow (0-15 feet below ground surface) soils affected (contaminant levels exceed health-based target concentrations) on adjacent properties (including right-of-way properties).

☒ Yes ❑ No Were all soil sample collection, handling, transport, and analytical procedures conducted in accordance with TNRCC and EPA requirements? If No, provide justification:_____

MAXIMUM SOIL CONCENTRATION LEVELS

Soil Contaminants	Sample Date	Sample Location	Depth (in feet below ground surface)	Analytical Method	Maximum Concentration* (mg/kg)	Target Cleanup Goals** (indicate source of target cleanup goals: 1990 or 1994 [Plan A or B] guidance)
Benzene						
Toluene						
Ethylbenzene						
Total Xylenes						
Total BTEX						
TPH						
Other _____						
Other _____						

* Enter maximum soil analytical results for soils remaining beneath the site (take into account all available data, including information obtained during the release determination (tank removal from service, minimal site assessment, etc)).

** If Plan A cleanup goals were used, provide the potential groundwater beneficial use category and a justification of how it was determined in Section VI.
1990 cleanup goals may be used only if all activities necessary to meet those goals were completed by November 8, 1995.

V. GROUNDWATER DATA VALIDATION

Is groundwater at the site impacted? ☐ Yes ☒ No

Did the assessment document that groundwater was not impacted? ☒ Yes ☐ No If No or unsure, provide justification for not determining whether there is a groundwater impact:

Total number of monitoring wells installed: 0 Number of monitor wells remaining at the site: 0
Will any of the remaining wells be used in the future? ☐Yes ☒ No If Yes, specify exactly which well(s) will be used:

If No, they must be plugged in accordance with 30 TAC Chapter 338 **after** obtaining approval for site closure. **Do not** plug the wells until you receive concurrence on site closure. Costs of well plugging may be allowable for reimbursement if all eligibility requirements are met and if the wells were installed under the direction of the TNRCC specifically to address the confirmed release at the site. Provide a proposal with this form (if the site is eligible for reimbursement) for costs of the well plugging.

Measured total dissolved solids (TDS) concentration in groundwater: _____ mg/l. From which monitor well(s) was/were the sample(s) collected? _____

Measured groundwater yield at the site: _____ gallons/day (as determined from well adequately screened in the impacted aquifer). ☐ Not determined.

Measured groundwater depth at the site ranges between _____ and _____ feet below the top of well casing.

Time period of groundwater monitoring at the site (dates): NA to _____.

Total number of groundwater monitoring events: N/A

What type of aquifer is impacted? (unconfined, confined, semi-confined): N/A

Distance from maximum plume concentration point to nearest existing downgradient well location (not monitor well): N/A ft. in _____ direction (Input "> 0.5 mile" if there is no well within 0.5 mile downgradient)

Are any water supply wells impacted or immediately threatened? ☐ Yes ☒ No
If Yes, specify type of well: ☐ Drinking water ☐ Non-drinking water

Are there any existing water wells located within the area of impacted groundwater? ☐ Yes ☒ No
If Yes, specify type of well: ☐ Drinking water ☐ Non-drinking water

Has surface water been affected? ☐ Yes ☒ No

Will the groundwater contaminants likely discharge to a surface water body? ☐ Yes ☐ No NA

What is the potential impact of affected groundwater discharge on surface water?
☐ Current impact ☐ Discharges within 500 ft. ☐ Discharges within 500 to 0.25 miles
☒ No potential impact

☐ Yes ☐ No Were groundwater sample collection, handling, transport, and analytical procedures conducted and documented in accordance with TNRCC requirements? If no, provide justification: NA - No groundwater samples were collected as part of this LPST.

V. GROUNDWATER DATA VALIDATION (Continued)

❑ Yes ❑ No — Is the extent of groundwater contamination defined (to MCL concentrations)? If No, provide justification for not defining the plume: NA - Groundwater was not impacted.

❑ Yes ☒ No — Have groundwater impacts from this release been detected on adjacent properties? If No, is off-site migration probable? ❑ Yes ☒ No Is there documentation that off-site migration has **not** occurred (sample results from off-site sampling point)? ❑ Yes ☒ No

❑ Yes ❑ No — Was the static groundwater level above the top of the well screen in any monitor wells during any of the last 4 monitoring events? If Yes, provide a statement of validity regarding these samples: NA - There was no groundwater sampling event associated with the USTs.

❑ Yes ❑ No — Have groundwater samples from all monitor wells met the target cleanup goals for the last four consecutive sampling events? NA

MAXIMUM GROUNDWATER CONCENTRATIONS

Groundwater Contaminants	Sample Date	Sample Location	Laboratory Method	Maximum Concentration* (mg/l)	Target Cleanup Goals** *(indicate source of target cleanup goals: 1990 or 1994 [Plan A or B] guidance)*
Benzene					
Toluene					
Ethylbenzene					
Total Xylenes					
Total BTEX					
TPH					
Other _____					
Other					

* Enter maximum groundwater analytical results from the most recent 12 months of monitoring.

** 1990 cleanup goals may be used only if all activities necessary to meet those goals were completed by November 8, 1995.

VI. JUSTIFICATION FOR CLOSURE

Please provide a brief summary supporting this request for site closure, including footnoted discussions for the above entries as necessary. **Include discussions providing necessary justifications for any site conditions which deviate from the specific requirements of TNRCC rules and policies, including the document *Risk-Based Corrective Action for Leaking Storage Tank Sites*.** Provide documentation to justify case closure, including information which addresses the potential for future exposure, the existence of impervious cover or other actions which may prevent exposure or limit infiltration, the absence of receptors, etc.

A Texas Water Commission Release Incident report dated 10/8/91 was filed, citing a failed tightness test for the four USTs at Building 4210. During the removal of the four tanks associated with Building 4210, several soil samples were collected from the excavated tank hold area, tank piping, and stockpiled soil (Figure 1). The analytical results exhibited concentrations below the TNRCC Action Levels for TPH and BTEX (Figure 2, Table 1). A report on the tank removal activities and soil sampling was completed by Jacobs Engineering Group, Inc., submitted to the TNRCC in 1997. This report indicated that groundwater had not been impacted. Since groundwater has been documented to not be impacted, this site does not exhibit any potential for further exposure.

VII. REPORT PREPARATION

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties. **I certify that the site has met all requirements for closure and that closure is appropriate.**

Project Manager: Brad Nielsen CAPM No.: CAPM01291 Expiration date: 2/10/2000

Company: HydroGeoLogic, Inc.

Address: 13740 Research Blvd., Unit N-5 City: Austin State: TX Zip: 78750

Telephone No.: 512/336-1170 Fax No.: 512/336-0178

Signature: Date: 5/28/99

By my signature affixed below, I certify that I am the duly authorized representative of the Correction Action Specialist named and that I have personally reviewed the site investigation results and other relevant information presented herein and considered them to be in accordance with accepted standards/practices and in compliance with the applicable TNRCC published rules, guidelines and the laws of the State of Texas. Further, that the information presented herein is considered complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties. **I certify that the site has met all requirements for closure and that closure is appropriate.**

Corrective Action Specialist: Miquette E. Rochford, P.G. CAS No.: RCAS00700 Expiration date: 6/11/2000

Company: HydroGeoLogic, Inc.

Address: 1155 Herndon Parkway, Suite 900 City: Herndon State: VA Zip: 20170

Telephone No.: 703/478-5186 Fax No.: 703/471-4180

Signature: Miquette E. Rochford Date: 5/27/99

By my signature affixed below, I certify that I have reviewed this report for accuracy and completeness of information regarding points of contact and the facility and storage tank system history and status. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report related to the contact information, and the facility and storage tank system history and status information, I may be subject to administrative, civil, and/or criminal penalties. I attest that I have reviewed this report for accuracy and completeness. I understand that I am responsible for addressing this matter.
I certify that the site has met all requirements for closure and that closure is appropriate.

Name of Responsible Party contact: Joseph Dunkle, HQ-AFCEE/ERD

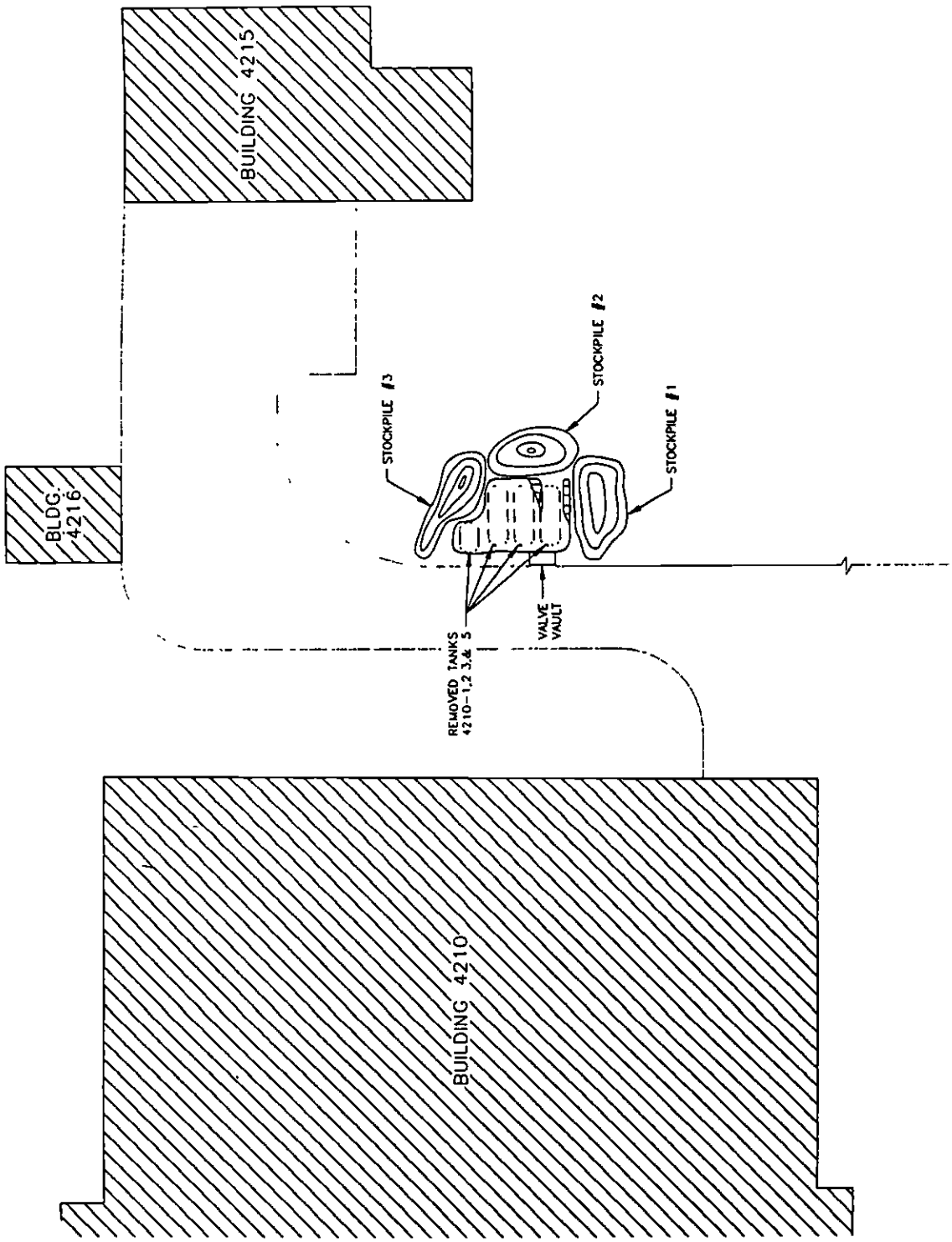
Telephone No.: 210/536-5290 Fax No.: 210/536-9026

Signature: Date: 6/1/99

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH THIS FORM IF NOT PREVIOUSLY SUBMITTED:

- A site map illustrating the locations of the entire UST and/or AST system (including piping, dispensers, observation wells, etc.), all soil borings and monitoring wells and all other sampling points, subsurface utilities, and surface water within 500 feet.
- A copy of the latest groundwater gradient map (if monitor wells were completed).
- Summary tables of all soil, groundwater and surface water analytical results, including samples collected from any tank removal from service activities, tank system repair activities, and those collected from borings and monitor wells. The tables must clearly identify the sample number, date of collection, sampling locations, depths (if applicable), and analytical results.

Attachment 1
Figures



Filename X\AFC001\15BBF\Bldg_4210 cdr
Project AFC001-15BBF
Created by. cfarmer 03/29/99
Revised· 05/26/99 ap
Source Jacobs 1997

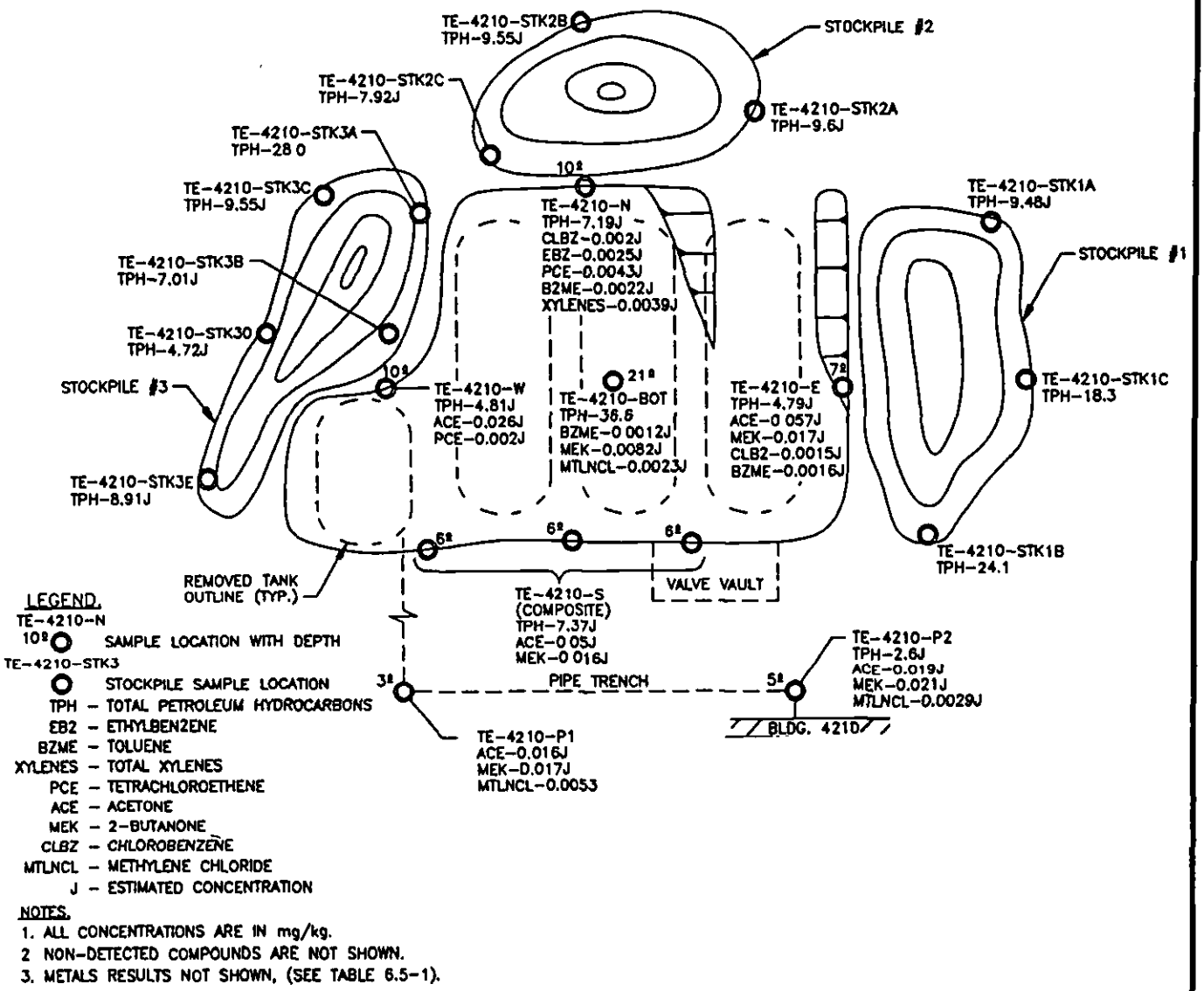
HYDRO GeoLogic

Legend

0 40 80
SCALE IN FEET

N

Figure 1
Building 4210
Tank Locations
NAS Fort Worth JRB, Texas



Filename: X\AFC001\15BBF\Bldg_4210 cdr
Project: AFC001-15BBF
Created by cfarmer 03/29/99
Revised 05/26/99 ap
Source: Jacobs 1997

HYDRO GeoLogic

Legend

0 10 20
SCALE IN FEET

N

Figure 2
Building 4210
Sampling Locations
NAS Fort Worth JRB, Texas

Attachment 2
Analytical Results

Table 1.0
Analytical Results
Soil Samples - Building 4210
April 1996
NAS Fort Worth JRB, Texas
Jacobs 1997

Sample Number	Date Sampled	Depth (feet)	Sample Type	VOCs Method SW8240	SVOCs Method SW8270	BTEX Method SW8020	TPH Method E418.1	Metals Method SW6010	Units
TE-4210-N	4/1/96	10.0	Soil	BZME - 0.0022J CLBZ-0.002J EZB-0.0025J PCE-0.0043J Xylenes-0.0039J	nd	nd	7.19J	Al-5390, As-4.76J Ba-52.4, Be-0.58 Ca-237000, Co-3.6J Cr, Tot.-6.5J, Cu-2.9J Fe-9140, K-849 Mg-2420, Mn-458 Na-107, Ni-9.28J V-54.2, Zn-16.9	Mg/kg
TE-4210-S	4/1/96	6	Soil	ACE-0.05J MEK-0.016J	nd	nd	7.37J	Al-5480, As-3.8J Ba-160, Be-0.69 Ca-113000, Co-8.68 Cr, Tot.-7.73J, Cu-3.21J Fe-9350, K-735 Mg-1930, Mn-744 Na-84.2, Ni-10.1J Pb-6.18J, Sb-1.43J V-64.9, Zn-13.3	Mg/kg
TE-4210-E	4/1/96	7.0	Soil	ACE-0.057J BZME-0.0017J CLBZ-0.0015J MEK-0.017J	nd	nd	4.79J	Al-7610, Ba-69.6, Be-0.742 Ca-79600, Co-4.29J Cr, Tot.-8.82, Cu-4.41J Fe-10200, K-1140 Mg-2110, Mn-284 Na-55, Ni-7.89J Pb-5.34J, V-62.2, Zn-19.2	Mg/kg
TE-4210-W	4/1/96	10.0	Soil	ACE-0.026J PCE-01002J	nd	nd	4.81J	Al-8450, Ba-99.1, Be-0.885 Ca-46900, Co-4.54J Cr, Tot.-9.43, Cu-3.61J Fe-10900, K-912 Mg-1510, Mn-182 Na-40.7, Ni-9.08J V-68.2, Zn-15.6	Mg/kg
TE-4210-P1	4/3/96	3.3-3.8	Soil	ACE-0.026J MEK-0.017J MTLNCL-0.0053	nd	nd	nd	Al-11800, Ba-126, Be-0.985 Ca-69100, Co-5.84J Cr, Tot.-13, Cu-4.01J Fe-12400, K-1130 Mg-1690, Mn-299 Na-39.2, Ni-10.7J V-119, Zn-18.6	Mg/kg

Table 1.0 (continued)
Analytical Results
Soil Samples - Building 4210
April 1996
NAS Fort Worth JRB, Texas
Jacobs 1997

Sample Number	Date Sampled	Depth (feet)	Sample Type	VOCs Method SW8240	SVOCs Method SW8270	BTEX Method SW8020	TPH Method E418.1	Metals Method SW6010	Units
TE2-4210-P1	4/3/96	3.3-3.8	Soil	ACE-0.016J BZME-0.002J CLBZ-0.0019J EBZ-0.002J MEK-0.018J MTLNCL-0.0036J PCE-0.0013J Xylenes-0.0018J	nd	nd	5.08J	Al-15100, As-5.04J Ba-125, Be-1.08 Ca-58500, Co-5.41J Cr, Tot.-15.1, Cu-3.81J Fe-14000, K-1450 Mg-2040, Mn-226 Na-49, Ni-11.6J V-102, Zn-23.5	Mg/kg
TE-4210-P2	4/3/96	5.0-5.5	Soil	ACE-0.019J MEK-0.021J MTLNCL-0.0029J	nd	nd	2.60J	Al-11400, Ba-77.5, Be-0.758 Ca-28200, Co-4.19J Cr, Tot.-11.7, Cu-4.19J Fe-10700, K-1500 Mg-1970, Mn-201 Na-40.5, Ni-9.22J V-90.9, Zn-21.7	Mg/kg
TE-4210-BOT	4/3/96	20.5-21.0	Soil	BZME-0012J MEK-0.0082J MTLNCL-0.0023J	nd	nd	36.6	Al-10400, As-3.68J Ba-22.8, Be-0.783 Ca-232000, Co-1.42J Cr, Tot.-14.9, Cu-3.32J Fe-10900, K-2160 Mg-3120, Mn-119 Na-151, Ni-6.88J V-88.2, Zn-22.5	Mg/kg

Notes:

nd - Not detected
Mg/kg - Milligrams per kilogram
ACE - Acetone
BZME - Toluene
CLBZ - Chlorobenzene
EBZ - Ethylbenzene
MEK - 2-Butanone
MTLNCL - Methylene Chloride
PCE - Tetrachloroethene
TPH - Total Petroleum Hydrocabons

Source: Jacobs, 1997

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
CORRESPONDENCE IDENTIFICATION SHEET

Date: June 1, 1999
Site Name: Building 1140, NAS Fort Worth JRB
Site Address: Building 1140
NAS Fort Worth JRB, Texas

LPST ID No.: 093351
Facility ID No.: 0009696

This checklist **must** accompany all correspondence submitted to the RPR Section and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence which you have submitted to the RPR Section. Check all boxes that apply if you are submitting more than one type of correspondence. If you cannot find an appropriate category, please complete the "other" section.

PROPOSALS

- ☐ Initial Abatement (1)
- ☐ Tank Removal (2)
- ☐ Excavation (3)
- ☐ Waste Treatment (4)
- ☐ Site Assessment (5)
- ☐ Aquifer Testing (6)
- ☐ VES/Sparge Testing (7)
- ☐ Qtrly. GW Monitoring (8)
- ☐ CAP Prep. (9)
- ☐ GW Extrac./Treatment (10)
- ☐ Soil Vapor Extrac. (11)
- ☐ Operation & Main. (12)
- ☐ Site Closure (13)
- ☐ Plan A Risk Ass. (14)
- ☐ Plan B Risk Ass. (15)
- ☐ Semi-annual GW Mon. (16)*
- ☐ Annual GW Mon. (18)
- ☐ Product Recovery (19)
- ☐ Other proposal _____

REPORTING FORMS

- ☐ Assessment Report Form (TNRCC-0562)
- ☐ LPST Case Questionnaire
- ☐ Product Recovery Report Form (TNRCC-0016)
- ☐ Release Report Form (TNRCC-0621)
- ☒ Site Closure Request Form (TNRCC-0028)
- ☐ Monitoring Event Summary and Status Report (TNRCC-0013)
- ☐ Final Site Closure Report Form (TNRCC-0038)
- ☐ Priority 4 LPST Case Closure Request Form (TNRCC-0461)
- ☐ Other form _____

REPORTS

- ☐ Tank Closure/Removal
- ☐ Plan A Risk Assessment
- ☐ Annual Groundwater Monitoring
- ☐ O&M/Performance Mon.
- ☐ Plan B Risk Assessment
- ☐ CAP Installation/Modification
- ☐ Property Divestiture/Phase I ESA
- ☐ Corrective Action Plan (CAP)
- ☐ Aquifer/Pilot Test Results

MISCELLANEOUS

- ☐ Off-site access assistance
- ☐ Deadline Extension Request
- ☐ Tank tightness test results
- ☐ Request for State-Lead
- ☐ Request for LPST Waste Code
- ☐ Class V Reinjection Request
- ☐ Notice to Owner/Operator for CAS Services
- ☐ Petroleum-Substance Waste Manifest
- ☐ Notice of Continuation of Groundwater Monitoring
- ☐ Underground Storage Tank Registration Form
- ☐ Notice of Continuation of Operation and Maintenance
- ☐ Aboveground Storage Tank Registration Form
- ☐ Other (anything that does not fit into one of the categories above) _____

* The proposal for semi-annual monitoring and annual report (Proposal Activity 17) has been discontinued. For semi-annual monitoring, use Proposal Activity 16.

I attest that all work has been conducted in accordance with accepted industry standards/practices and adhered to TNRCC guidance and rules I certify that I am aware that misrepresentation of any of the above claims is a violation of 30 TAC 33.4453(b)(1)(E) and that this violation may result in the disciplinary actions set forth in 30 TAC 334.453 and or 334.463 and 334.465.

If a proposal is attached for preapproval, has the proposed work, in part or in whole, already been performed or in progress? ☐ Yes ☐ No

If yes, what work? _____

HydroGeoLogic, Inc.	RCAS00700	6/11/2000
(Registered Corrective Action Specialist)	(RCAS Reg No)	(Expiration date)

Miguelli Rochford — (Signature) 5/27/99 — (Date)

703/478-5186	703/471-4180
(Telephone #)	(Fax #)

Brad Nielsen	CAPM01291	2/10/2000
(Project Manager)	(CAPM Reg No.)	(Expiration date)

(Signature) 5/28/99 (Date)

512/336-1170	512/336-0178
(Telephone #)	(Fax #)

By signature below, I certify that documents checked above are included.

Joseph Dunkle	HQ-AFCEE/ERD
(Name of Responsible Party Contact)	(Company)

(Signature) 6/1/99 (Date)

210/536-5290	210/536-9026
(Telephone #)	(Fax #)

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

LPST SITE CLOSURE REQUEST FORM

This form is to be used to request closure for Leaking Petroleum Storage Tank (LPST) cases. The soil and groundwater cleanup goals must be met prior to submitting this form. These cleanup goals should be derived from either:

- the TWC *Guidance Manual for LPST Cleanups in Texas*, January 1990 **so long as these goals were achieved prior to November 8, 1995**, or
- the TNRCC *Risk-Based Corrective Action for Leaking Storage Tank Sites* document, January 1994 (RG-36).

Submission of this Site Closure Request constitutes certification by the Responsible Party, Corrective Action Specialist (CAS), and Corrective Action Project Manager (CAPM) that all necessary corrective actions have been completed and final closure of the subject site is appropriate at this time. By signing this Site Closure Request, the Responsible Party, CAS, and CAPM acknowledges that no further corrective actions, with the exception of activities subsequently approved by the TNRCC, will be eligible for reimbursement after the RP's signature date. Although costs for activities such as groundwater monitoring or remediation system operation and maintenance may have been approved for an annual period, these activities should cease upon submission of the Site Closure Request as these activities will not be considered eligible for reimbursement beyond the date of the Site Closure Request. Additionally, any costs relating to site assessment or other corrective action activities will not be eligible for reimbursement if the activities are conducted after the date of the Site Closure Request, unless specifically approved by the TNRCC. If, upon review by the TNRCC, the TNRCC concurs that the site meets the conditions for final closure, the costs for closure activities necessary to restore the site to its original condition will be reviewed and approved as appropriate. If the TNRCC determines that the site does not meet the conditions for final closure, the TNRCC will request a workplan and cost proposal for the next appropriate corrective action activity necessary to proceed towards final closure unless appropriate activities have previously been approved. The only type of proposal that should be attached to the Site Closure Request is for site closure costs. Any proposals attached to the Site Closure Request for activities other than site closure will not be processed and will be withdrawn from consideration.

If any of the following apply, the site is not ready for closure and this form should not be submitted:

- **The appropriate LPST cleanup goals have not been met (a proposal for the next appropriate step should be submitted instead);**
- **Phase-separated hydrocarbons (>0.1 feet) currently exist at the site;**
- **The contaminant plume is increasing in size; or**
- **All wastes and other material generated from the site have not been properly disposed;**

Do not use this form:

- **if the release was not from a regulated underground or aboveground storage tank;**
- **for tank removal-from-service activities not associated with an LPST site (use the *Release Determination Report Form* (TNRCC-0621) or other appropriate format);**
- **for situations where the second set of confirmation samples collected during tank removal-from-service activities confirms suitability for closure (use the *Release Determination Report Form* (TNRCC-0621) or other appropriate format); or**
- **for shutdown of remediation systems or for plugging of monitor wells when site closure is not yet appropriate.**

If asked to initiate additional activities, submit a workplan and preapproval request for those activities on sites eligible for reimbursement. Please review the document entitled *Preapproval for Corrective Action Activities* (RG-111) for procedures on preapproval requests and the other PST guidance pamphlets and rules for additional information on LPST sites.

Complete all blanks and check "yes" or "no" for all inquiries. **IF A COMPLETED *ASSESSMENT REPORT FORM* (TNRCC-0562) WAS PREVIOUSLY SUBMITTED, YOU DO NOT NEED TO ANSWER THE QUESTIONS WITHIN THE DARK OUTLINED AREAS UNLESS THE INFORMATION HAS CHANGED.** If the question is not applicable to this site, indicate with N/A. If the answer to the question is unknown, please indicate. If space for supplemental information is needed, insert numbered footnote and provide brief supporting discussion in Section VI, Justification for Closure.

SITE CLOSURE REQUEST FORM

I. GENERAL INFORMATION

LPST ID No.: 093351 Facility ID No.: 0096969

Responsible Party: Joseph Dunkle, HQ-AFCEE/ERD

Responsible Party Address: 3207 North Road City: Brooks AFB State: TX Zip: 73235

Facility Name: Building 1140, NAS Fort Worth JRB

Facility Street Address: Building 1140

Facility City: NAS Fort Worth JRB County: Tarrant

What is the current use of site? (indicate all that apply):
☐ Residence[1] ☐ School or Day Care center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

What is the anticipated future use of the site? (indicate all that apply):
☐ Residence[1] ☐ School or Day Care center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

Adjacent property use (indicate all that apply):
☐ Residence[1] ☐ School or Day Care Center ☐ Commercial/Industrial[1] ☐ Recreational ☐ Agricultural

Distance to nearest off-site residence from property line: _____ feet in _____ direction.

Distance to nearest school or day care center from property line: _____ feet in _____ direction.

II. CLOSURE SCREENING INFORMATION

Based on the *Limited Site Assessment Report* form or the Risk-Based *Assessment Report Form* (TNRCC-0562), the site is currently a **Priority** 4.2 site. If the site priority has changed, list the other priorities that previously pertained to this site: _____

☒ Yes* ☐ No	Have non-aqueous phase liquids (NAPL) ever been present at this site (including tankpit observation wells)? If yes, is NAPL present now (thickness ≥0.1 feet)? ☐ Yes ☒ No Current thickness: _____ ft. If NAPL is currently present, stop here and do not submit this form for case closure. Initiate or continue activities necessary for the removal of all recoverable NAPL at the site.
☒ Yes ☐ No	Were all soils, recovered contaminated groundwater, and any phase-separated hydrocarbons properly disposed of, treated, recycled or reused in accordance with TNRCC requirements? If No, stop here and do not submit this form Provide a proposal (if the site is eligible for reimbursement) to properly dispose or otherwise manage the wastes/materials or, if the site is not eligible for reimbursement, provide documentation of proper disposition of the wastes.
☒ Yes ☐ No	Do contaminant concentrations show a consistent decreasing or low static trend? If No, is the contaminant plume increasing in size? ☐ Yes ☐ No If Yes, stop here, do not submit this form, and initiate activities to control plume migration.

* Waste oil was released during the excavation of the tank; however, the waste oil released was recovered and did not encounter or impact groundwater.

[1] See definition in 30 TAC 334.202

III. RELEASE ABATEMENT/REMEDIATION

Date Release Discovered: _____

Substance(s) released: (check all that apply) ☐ Gasoline ☐ Alcohol-blended fuel (Type and percentage of alcohol:_____)
☐ Diesel ☐ Used Oil ☐ Jet Fuel (type:_____) ☐ Aviation Gasoline ☐ Other: (be specific)_____

Source of Release (specify all that apply):
☐ Spills/overfills ☐ Piping leaks ☐ Dispenser leaks ☐ Tank corrosion ☐ Other:_____

☐ Yes ☐ No Has a receptor survey been conducted?
☐ Yes ☐ No Has a water well inventory been conducted?

☐ Yes ☒ No	Have vapor impacts to buildings or utility lines ever been associated with this release? If Yes, specify the measures taken to abate the impact and indicate the latest date that an impact was noted:
☐ Yes ☒ No	Have subsurface utilities ever been affected with NAPL or vapors by this release? If Yes, indicate the latest date that an impact was noted:_____

If not already provided in *Release Determination Report Form* (TNRCC-0621), or if the information has changed since submittal of the *Release Determination Report*, indicate number of tanks currently and formerly located at this site (attach pages as necessary):

	Type (UST/AST)	Product Type	Size (approx. gal)	Date Removed from Service
Current:	N/A			
Former:	UST	Waste Oil	400 gal	7/7/89
	UST	Waste Oil	550 gal	7/7/89

☒ Yes ☐ No	If the tanks were permanently removed from service, were native soil samples collected from beneath the tanks and the entire length of the piping? If No, explain why not:
☐ Yes ☒ No	Was a new UST system installed? If Yes, indicate the date, number of tanks and their contents:
☐ Yes ☒ No	Are there any open excavations at the site? If Yes, state size, location, purpose, and status for each of the excavations:

Type(s) of soil remediation and time periods the remediation method was operational (indicate all that apply):
☒ Excavation 7/89 to 8/90 (dates), and
- ☐ Aboveground Bioremediation/Aeration _____ to _____ (dates), or
- ☐ Thermal Treatment _____ to _____ (dates), or
- ☒ Disposal 8/90 to 8/90 (dates).

☐ Soil Vapor Extraction _____ to _____ (dates).
☐ In-Situ Bioremediation _____ to _____ (dates).
☐ None

III. RELEASE ABATEMENT/REMEDIATION (Continued)

Type(s) of groundwater remediation and time periods the remediation method was operational (indicate all that apply):

- ☐ Groundwater Pump and Treat _____ to _____ (dates)
- ☐ Air Sparging/SVE _____ to _____ (dates)
- ☐ In-Situ Bioremediation _____ to _____ (dates)
- ☐ Other: _____ _____ to _____ (dates)
- ☒ None

☒ Yes ☐ No Were copies of all receipts and manifests to document disposition of all wastes submitted to the TNRCC? If No, attach copies to this form.

Measured total volume of NAPL recovered: 50 gallons.

Estimated total volume of soil treated/removed: 40 cubic yards (exclude soil cuttings removed from borings).

Estimated total volume of groundwater treated/removed: 0 gallons (if known).

Estimated pounds of hydrocarbons removed or treated from soil (if known): 0

Estimated pounds of hydrocarbons removed or treated from groundwater (if known): 0

Estimated percent of total contaminants removed or treated (if known): 100

IV. SOIL DATA VALIDATION

Are there now affected surface soils (contamination exceeding health-based target concentrations) present within 2 feet below the ground surface? ☐ Yes ☒ No ☐ Unknown

Type of surface cover over affected surface soil area:

☐ Paved [☐ Asphalt or ☐ Concrete] Percent of affected soils covered? _____ ☒ Unpaved

☐ Other: _____

Is there public access to the uncovered affected surface soil area? ☐ Yes ☒ No

Total number of borings: 13 (including those completed as monitor wells)

☒ Yes ☐ No Was the vertical and horizontal extent of soil impacts defined (to the more stringent of health-based target or groundwater protective soil concentrations horizontally and to groundwater or nondetect vertically) by the borings?

☐ Yes ☒ No Are shallow (0-15 feet below ground surface) soils affected (contaminant levels exceed health-based target concentrations) on adjacent properties (including right-of-way properties).

☒ Yes ☐ No Were all soil sample collection, handling, transport, and analytical procedures conducted in accordance with TNRCC and EPA requirements? If No, provide justification: _____

MAXIMUM SOIL CONCENTRATION LEVELS

Soil Contaminants	Sample Date	Sample Location	Depth (in feet below ground surface)	Analytical Method	Maximum Concentration* (mg/kg)	Target Cleanup Goals** (indicate source of target cleanup goals: 1990 or 1994 [Plan A or B] guidance)
Benzene						
Toluene						
Ethylbenzene						
Total Xylenes						
Total BTEX						
TPH						
Other _____						
Other						

* Enter maximum soil analytical results for soils remaining beneath the site (take into account all available data, including information obtained during the release determination (tank removal from service, minimal site assessment, etc)).

** If Plan A cleanup goals were used, provide the potential groundwater beneficial use category and a justification of how it was determined in Section VI.
1990 cleanup goals may be used only if all activities necessary to meet those goals were completed by November 8, 1995.

V. GROUNDWATER DATA VALIDATION

Is groundwater at the site impacted? ☐ Yes ☒ No

Did the assessment document that groundwater was not impacted? ☒ Yes ☐ No If No or unsure, provide justification for not determining whether there is a groundwater impact: _____

Total number of monitoring wells installed: 0 Number of monitor wells remaining at the site: 0
Will any of the remaining wells be used in the future? ☐Yes ☒ No If Yes, specify exactly which well(s) will be used: _____

If No, they must be plugged in accordance with 30 TAC Chapter 338 **after** obtaining approval for site closure. **Do not** plug the wells until you receive concurrence on site closure. Costs of well plugging may be allowable for reimbursement if all eligibility requirements are met and if the wells were installed under the direction of the TNRCC specifically to address the confirmed release at the site. Provide a proposal with this form (if the site is eligible for reimbursement) for costs of the well plugging.

Measured total dissolved solids (TDS) concentration in groundwater: _____ mg/l. From which monitor well(s) was/were the sample(s) collected? _____

Measured groundwater yield at the site: _____ gallons/day (as determined from well adequately screened in the impacted aquifer). ☐ Not determined.

Measured groundwater depth at the site ranges between _____ and _____ feet below the top of well casing.

Time period of groundwater monitoring at the site (dates): NA to _____.

Total number of groundwater monitoring events: N/A.

What type of aquifer is impacted? (unconfined, confined, semi-confined): N/A.

Distance from maximum plume concentration point to nearest existing downgradient well location (not monitor well): N/A ft. in _____ direction (Input ">0.5 mile" if there is no well within 0.5 mile downgradient)

Are any water supply wells impacted or immediately threatened? ☐ Yes ☒ No
If Yes, specify type of well: ☐ Drinking water ☐ Non-drinking water

Are there any existing water wells located within the area of impacted groundwater? ☐ Yes ☒ No
If Yes, specify type of well: ☐ Drinking water ☐ Non-drinking water

Has surface water been affected? ☐ Yes ☒ No

Will the groundwater contaminants likely discharge to a surface water body? ☐ Yes ☒ No

What is the potential impact of affected groundwater discharge on surface water?
☐ Current impact ☐ Discharges within 500 ft. ☐ Discharges within 500 to 0.25 miles
☒ No potential impact

☐ Yes ☒ No Were groundwater sample collection, handling, transport, and analytical procedures conducted and documented in accordance with TNRCC requirements? If no, provide justification: NA - No groundwater samples were collected.

V. GROUNDWATER DATA VALIDATION (Continued)

☐ Yes ☐ No Is the extent of groundwater contamination defined (to MCL concentrations)? If No, provide justification for not defining the plume: NA - Groundwater was not impacted.

☐ Yes ☒ No Have groundwater impacts from this release been detected on adjacent properties? If No, is off-site migration probable? ☐ Yes ☒ No Is there documentation that off-site migration has **not** occurred (sample results from off-site sampling point)? ☐ Yes ☒ No

☐ Yes ☐ No Was the static groundwater level above the top of the well screen in any monitor wells during any of the last 4 monitoring events? If Yes, provide a statement of validity regarding these samples: NA - There was no groundwater sampling event associated with the UST.

☐ Yes ☐ No Have groundwater samples from all monitor wells met the target cleanup goals for the last four consecutive sampling events? NA

MAXIMUM GROUNDWATER CONCENTRATIONS

Groundwater Contaminants	Sample Date	Sample Location	Laboratory Method	Maximum Concentration* (mg/l)	Target Cleanup Goals** *(indicate source of target cleanup goals: 1990 or 1994 [Plan A or B] guidance)*
Benzene					
Toluene					
Ethylbenzene					
Total Xylenes					
Total BTEX					
TPH					
Other _____					
Other					

* Enter maximum groundwater analytical results from the most recent 12 months of monitoring.

** 1990 cleanup goals may be used only if all activities necessary to meet those goals were completed by November 8, 1995.

VI. JUSTIFICATION FOR CLOSURE

Please provide a brief summary supporting this request for site closure, including footnoted discussions for the above entries as necessary. **Include discussions providing necessary justifications for any site conditions which deviate from the specific requirements of TNRCC rules and policies, including the document *Risk-Based Corrective Action for Leaking Storage Tank Sites*.** Provide documentation to justify case closure, including information which addresses the potential for future exposure, the existence of impervious cover or other actions which may prevent exposure or limit infiltration, the absence of receptors, etc.

An undetermined volume of waste oil was released as a result of human error during the removal of two underground storage tanks at Building 1140 on July 7, 1989. The release was limited to the tank excavation area (Figure 1). Under direction of the Texas Water Commission (TWC), the affected area was over excavated to remove the visibly affected soils. Soil samples were collected from native material at the floor and walls of the tank excavation (Figure 2). Soil samples did not contain concentrations of TPH and BTEX above TNRCC Action Levels. Analytical results for samples collected from the excavated area were presented in a letter to the TWC on September 6, 1990. This letter stated that "All contaminated soil was removed from the excavated area until TPH tested less than 25 ppm." Groundwater was documented to be not affected in the TWC Incident Report dated 7/12/89. Since groundwater has not been affected and all contaminated soils have been removed, this site does not exhibit any potential for future exposure.

VII. REPORT PREPARATION

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas. I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties. **I certify that the site has met all requirements for closure and that closure is appropriate.**

Project Manager: Brad Nielsen CAPM No.: CAPM01291 Expiration date: 2/10/2000

Company: HydroGeoLogic, Inc.

Address: 13740 Research Blvd., Unit N-5 City: Austin State: TX Zip: 78750

Telephone No.: 512/336-1170 Fax No.: 512/336-0178

Signature: Date: 5/28/99

By my signature affixed below, I certify that I am the duly authorized representative of the Correction Action Specialist named and that I have personally reviewed the site investigation results and other relevant information presented herein and considered them to be in accordance with accepted standards/practices and in compliance with the applicable TNRCC published rules, guidelines and the laws of the State of Texas. Further, that the information presented herein is considered complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties. **I certify that the site has met all requirements for closure and that closure is appropriate.**

Corrective Action Specialist: Miquette E. Rochford, P.G. CAS No.: RCAS00700 Expiration date: 6/11/2000

Company: HydroGeoLogic, Inc.

Address: 1155 Herndon Parkway, Suite 900 City: Herndon State: VA Zip: 20170

Telephone No.: 703/478-5186 Fax No.: 703/471-4180

Signature: Miquette E. Rochford Date: 5/27/99

By my signature affixed below, I certify that I have reviewed this report for accuracy and completeness of information regarding points of contact and the facility and storage tank system history and status. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report related to the contact information, and the facility and storage tank system history and status information, I may be subject to administrative, civil, and/or criminal penalties. I attest that I have reviewed this report for accuracy and completeness. I understand that I am responsible for addressing this matter.
I certify that the site has met all requirements for closure and that closure is appropriate.

Name of Responsible Party contact: Joseph Dunkle, HQ-AFCEE/ERD

Telephone No.: 210/536-5290 Fax No.: 210/536-9026

Signature: Date: 6/1/99

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH THIS FORM IF NOT PREVIOUSLY SUBMITTED:

- A site map illustrating the locations of the entire UST and/or AST system (including piping, dispensers, observation wells, etc.), all soil borings and monitoring wells and all other sampling points, subsurface utilities, and surface water within 500 feet.
- A copy of the latest groundwater gradient map (if monitor wells were completed).
- Summary tables of all soil, groundwater and surface water analytical results, including samples collected from any tank removal from service activities, tank system repair activities, and those collected from borings and monitor wells. The tables must clearly identify the sample number, date of collection, sampling locations, depths (if applicable), and analytical results.

Attachment 1
Figures

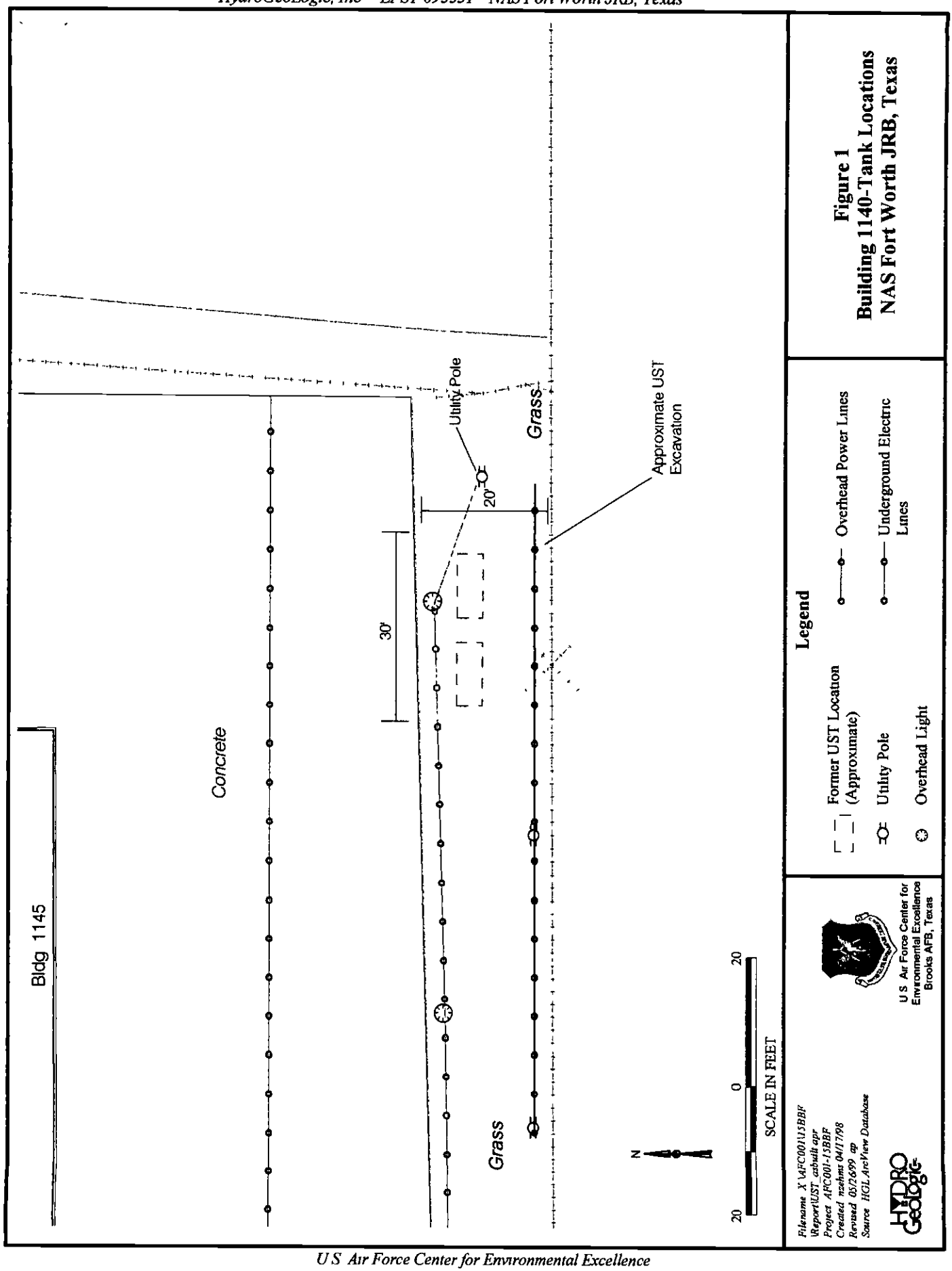
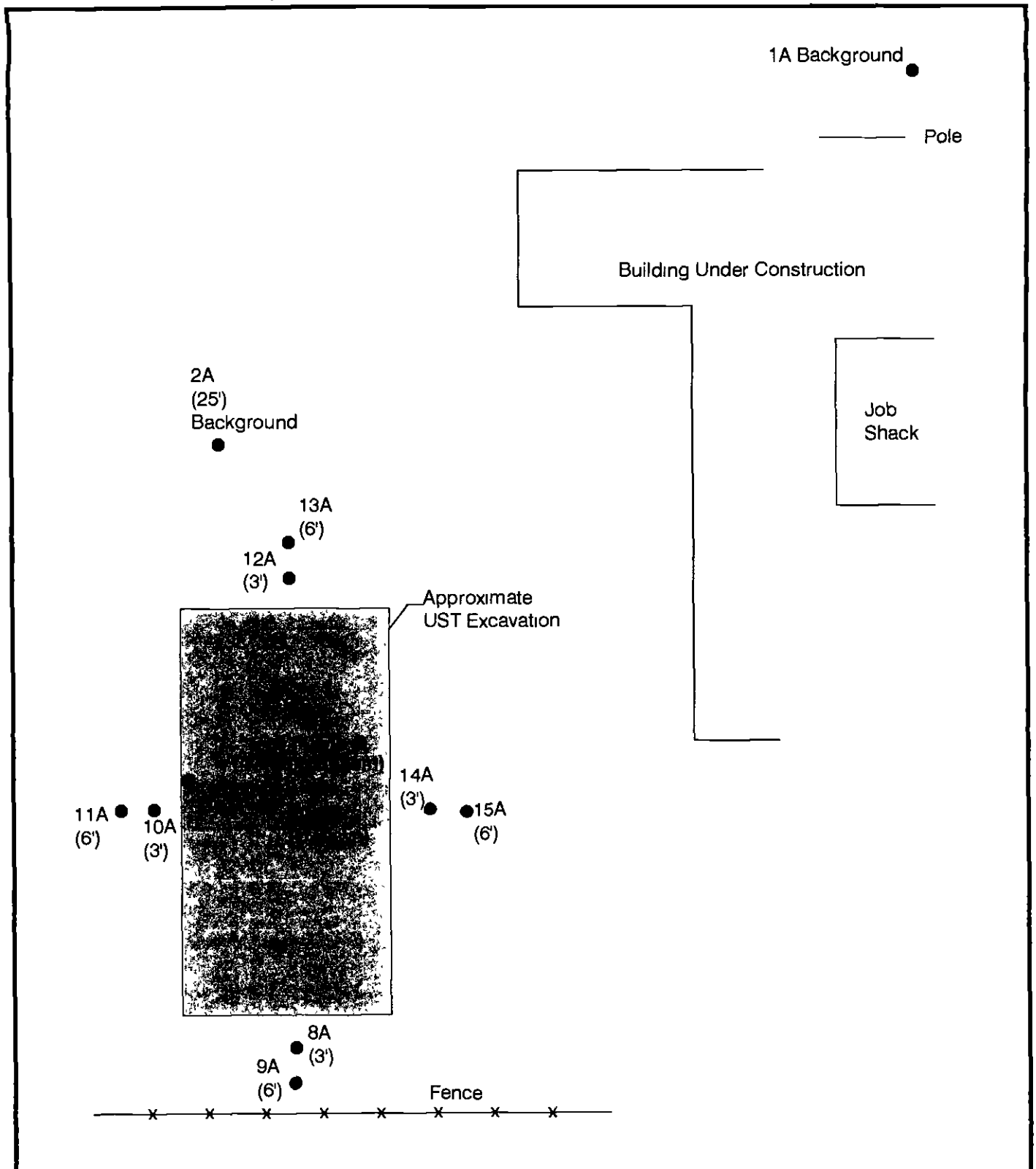


Figure 1
Building 1140-Tank Locations
NAS Fort Worth JRB, Texas



Filename: X:\AFC001\15BBF\Report\bldg_1140.cdr
Project AFC001-15BBF
Created by. cfarmer 03/29/99
Revised: 05/26/99 ap
Source Southwestern Laboratories, 1989

HYDRO GeoLogic

Legend

N

Drawing not to scale

Figure 2
Building 1140
Sample Locations
NAS Fort Worth JRB, Texas

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
CORRESPONDENCE IDENTIFICATION SHEET

Date: June 1, 1999
Site Name: Building 1658, NAS Fort Worth JRB
Site Address: Building 1658
NAS Fort Worth JRB, Texas

LPST ID No.: N/A
Facility ID No.: 0009696

This checklist **must** accompany all correspondence submitted to the RPR Section and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence which you have submitted to the RPR Section. Check all boxes that apply if you are submitting more than one type of correspondence. If you cannot find an appropriate category, please complete the "other" section.

PROPOSALS

- ☐ Initial Abatement (1)
- ☐ Tank Removal (2)
- ☐ Excavation (3)
- ☐ Waste Treatment (4)
- ☐ Site Assessment (5)
- ☐ Aquifer Testing (6)
- ☐ VES/Sparge Testing (7)
- ☐ Qtrly. GW Monitoring (8)
- ☐ CAP Prep. (9)
- ☐ GW Extrac./Treatment (10)
- ☐ Soil Vapor Extrac. (11)
- ☐ Operation & Main. (12)
- ☐ Site Closure (13)
- ☐ Plan A Risk Ass (14)
- ☐ Plan B Risk Ass. (15)
- ☐ Semi-annual GW Mon. (16)*
- ☐ Annual GW Mon. (18)
- ☐ Product Recovery (19)
- ☐ Other proposal _____

REPORTING FORMS

- ☐ Assessment Report Form (TNRCC-0562)
- ☐ LPST Case Questionnaire
- ☐ Product Recovery Report Form (TNRCC-0016)
- ☒ Release Report Form (TNRCC-0621)
- ☐ Site Closure Request Form (TNRCC-0028)
- ☐ Monitoring Event Summary and Status Report (TNRCC-0013)
- ☐ Final Site Closure Report Form (TNRCC-0038)
- ☐ Priority 4 LPST Case Closure Request Form (TNRCC-0461)
- ☐ Other form _____

REPORTS

- ☐ Tank Closure/Removal
- ☐ Plan A Risk Assessment
- ☐ Annual Groundwater Monitoring
- ☐ O&M/Performance Mon.
- ☐ Plan B Risk Assessment
- ☐ CAP Installation/Modification
- ☐ Property Divestiture/Phase I ESA
- ☐ Corrective Action Plan (CAP)
- ☐ Aquifer/Pilot Test Results

MISCELLANEOUS

- ☐ Off-site access assistance
- ☐ Deadline Extension Request
- ☐ Tank tightness test results
- ☐ Request for State-Lead
- ☐ Request for LPST Waste Code
- ☐ Class V Reinjection Request
- ☐ Notice to Owner/Operator for CAS Services
- ☐ Petroleum-Substance Waste Manifest
- ☐ Notice of Continuation of Groundwater Monitoring
- ☐ Underground Storage Tank Registration Form
- ☐ Notice of Continuation of Operation and Maintenance
- ☐ Aboveground Storage Tank Registration Form
- ☐ Other (anything that does not fit into one of the categories above) _____

* The proposal for semi-annual monitoring and annual report (Proposal Activity 17) has been discontinued. For semi-annual monitoring, use Proposal Activity 16.

I attest that all work has been conducted in accordance with accepted industry standards/practices and adhered to TNRCC guidance and rules. I certify that I am aware that misrepresentation of any of the above claims is a violation of 30 TAC 33.4453(b)(1)(E) and that this violation may result in the disciplinary actions set forth in 30 TAC 334.453 and or 334.463 and 334.465.

If a proposal is attached for preapproval, has the proposed work, in part or in whole, already been performed or in progress? ☐ Yes ☐ No

If yes, what work?_____

HydroGeoLogic, Inc.	RCAS00700	6/11/2000
(Registered Corrective Action Specialist)	(RCAS Reg No.)	(Expiration date)

Luignette Rochford — (Signature) 5/27/99 — (Date)

703/478-5186 — (Telephone #) 703/471-4180 — (Fax #)

Brad Nielsen	CAPM01291	2/10/2000
(Project Manager)	(CAPM Reg No)	(Expiration date)

(Signature) 5/28/99 — (Date)

512/336-1170 — (Telephone #) 512/336-0178 — (Fax #)

By signature below, I certify that documents checked above are included

Joseph Dunkle — (Name of Responsible Party Contact) HQ-AFCEE/ERD — (Company)

(Signature) 6/1/99 — (Date)

210/536-5290 — (Telephone #) 210/536-9026 — (Fax #)

HYDRO GeoLogic INC

June 1, 1999

Texas Natural Resource Conservation Commission
Petroleum Storage Tank Division - MC137
P.O. Box 13087
Austin, TX 78711-3087

Ref: Release Determination Report for UST at Building 1658
NAS Fort Worth JRB, Texas

Dear Sir or Madam:

Please find the enclosed Release Determination Report Form (TNRCC-0621) for the former underground storage tank (UST) located at Building 1658, NAS Fort Worth JRB, Texas. This tank system consisted of a 275 gallon underground storage tank with piping and was used to store diesel fuel for use in an on-site generator. The tank was located on the east side of Building 1658, as illustrated in Figure 1. This tank was removed on October 3, 1990 by Eagle Construction and Environmental Services, Inc. Soil samples were collected from the excavation floor and walls, which contained concentrations of TPH and BTEX below TNRCC Action Levels. A copy of the analytical data has been attached to this submittal. Soils removed during the excavation activities were found to have concentrations of TPH and BTEX below the TNRCC Action Levels and were used as backfill in the tank excavation. Based on the data presented, the former UST at Building 1658 does not meet the qualifications to be considered an LPST site.

If you have any questions or comments, please do not hesitate to contact me at 512/336-1170.

Sincerely,

Brad Nielsen
Project Geologist, CAPM01291

Enclosures

cc: TNRCC Region 4/Arlington
Joseph Dunkle, HQ-AFCEE/ERD
James P. Costello, HydroGeoLogic, Inc.

HydroGeoLogic, Inc.
1155 Herndon Parkway • Suite 900 • Herndon, Virginia 20170 • USA
(703) 478-5186 • Fax (703) 471-4180 • http://www.access.digex.net/~hgl

Texas Natural Resource Conservation Commission
PETROLEUM STORAGE TANK DIVISION
RELEASE DETERMINATION REPORT

INTRODUCTION

The PST Division has established a new process for expedited reporting of release determinations by Corrective Action Specialists (CAS), or by Licensed On-Site Supervisors (LOSS) if discovered during a tank removal from service or tank repair activity.

This process facilitates quick response from the TNRCC as to whether or not a release will be pursued as a Leaking Petroleum Storage Tank (LPST) site in order to ensure adequate opportunity to meet the corrective action deadlines stipulated in Title 30, Texas Administrative Code (TAC) §334.312. The TNRCC will rely on the professional documentation of the release determination by the CAS or LOSS, as appropriate, to identify LPST sites. Any release investigation not documented by a CAS or LOSS is not eligible for this expedited process. If the CAS or LOSS identifies a release and the contaminant levels exceed action levels, the site will be filed as an LPST site. If the release determination conducted by the CAS or LOSS does not identify a release or if the CAS or LOSS documents that the release has not resulted in contamination above action levels, then a letter will be provided which concurs with the CAS's or LOSS's findings that the site is not an LPST site. Unless the CAS or LOSS attests by signature to the release investigation results, such a letter will not be issued. The reported information will be randomly examined by the TNRCC for accuracy. Misrepresentations will be pursued as violations of 30 TAC, Chapter 334, Section §334.11 and Subchapters I and J as appropriate. The owner and operator are required to use this form to document suspected and confirmed releases, but participation in the expedited process (use of a CAS or LOSS) is optional, but encouraged.

SUSPECTED RELEASES

There are two different situations that can be described as a suspected release. One situation is when there is an indication that a release may have occurred but there is no evidence of environmental contamination. An example of this situation is when a piping leak detector trips. The tank owner and operator must initiate an investigation to determine whether the equipment is functioning properly. If the equipment is found to be defective and no release has occurred, the owner and operator should comply with all applicable portions of 30 TAC §334.6 relating to Construction Notification and should complete repairs of the equipment. If the equipment is not faulty and it appears a release may have occurred, the tank owner and operator must report the suspected release to the TNRCC Region Office within 24 hours and must have a tightness test conducted on the tanks and piping to determine whether the system is tight. If the tests indicate that the system is tight and there is still no indication of environmental contamination, no further action is necessary. However, if the test indicates that a portion of the tank system is not tight, then the owner and operator must investigate the cause of the test failure to determine if there has been a release. If the tank and piping tests are valid, the leak must be found and the faulty part of the tank system repaired or replaced. A site check must also be conducted to evaluate the native soils and/or groundwater for evidence of a release. The site check must include sampling the native soils in places most likely to be contaminated (including the piping chase, under dispensers, and near or under the tanks) and may be conducted during repair operations or by sampling from borings installed near the potential source(s) of the release. If all likely source areas have been evaluated and contamination is not detected, complete and submit this form to both the TNRCC Office in Austin and to the local Region Office within 45 days after the first observation of the suspected release and indicate that the situation is only a suspected release. If contamination is detected, please refer to the section on Confirmed Releases.

The second type of suspected release involves an environmental impact but the source of the contamination is unknown. An example of this situation is when there is a vapor impact to a sewer line in a street intersection where there is one or more potential sources of contamination. In this situation, the owners and operators of all potential

sources will be required to conduct a tightness test and a site check to determine: 1) the tightness status of the tanks and piping, 2) if there is any contamination at their facility, and 3) whether their facility is the source of the environmental impact. If no contamination is detected, the owner and operator should submit this form to both the TNRCC Office in Austin and to the local Region Office (completing the Summary and Sections A, B, E, and G) within 45 days after the first observation of the problem to indicate that the situation was a suspected release and that contamination was not found. If contamination is detected, please refer to the section on Confirmed Releases.

This discussion is a brief description of the procedures for handling suspected releases. In order to ensure compliance, please review the applicable rules (Title 30, Texas Administrative Code §334.72-334.81) or contact the local Region Office for more information. Please also refer to the flow chart of procedures for handling suspected and confirmed releases included with this document.

CONFIRMED RELEASES

Reporting Requirements

All releases must be reported to the TNRCC. If an emergency exists, notify the TNRCC within 24 hours of discovery. If the situation is not an emergency, the release must be reported to the TNRCC within 24 hours of release confirmation (i.e., analytical results or presence of non-aqueous phase liquid).

Second Set of Confirmation Samples

In situations where the release is discovered during a tank removal-from-service activity and analytical results indicate that the contaminant levels only slightly exceed the Action Levels, then even though the site is considered an LPST site (and should be indicated as such on the *Release Determination Report* form), a site assessment may not be warranted. Instead, the RP may be allowed, with concurrence from the TNRCC Region Office, to conduct additional investigative steps by collecting verification samples prior to a site assessment. This option is available only under the following conditions:

- The tank removal from service activities have just been completed and the tankhold and piping chases have not been filled. The second set of samples must be collected immediately after the results of the initial sampling are received when the sampling locations are easily accessible. However, the tankhold and piping chases must not be left open if they pose a safety hazard in any way;
- No more than two of the native soil samples collected for release determination purposes during a tank removal from service activity exceed action levels. This includes samples collected from the piping chases and from under the dispenser islands as well as samples from the tankhold;
- Verification samples are collected at a location a maximum of five feet vertically (or horizontally if only lateral migration has occurred) from the initial sampling points;
- Groundwater is not present in the excavation;
- Groundwater or surface water is not impacted or threatened;
- There is no indication that the release poses a threat to the public, and the extent (degree of spreading) of the contaminant is minimal;
- Non-aqueous phase liquid (NAPL) is not present in the excavation;
- The tank removal was not initiated in response to a documented impact to a sensitive receptor (water supply well, subsurface utility, spring, etc); and
- The case is not an apparent Priority 1, 2 or 3 (1.1 through 3.5);

If all the above conditions are met and the results of this second confirmation sampling indicates contaminant levels below action levels, the site may be closed.

Action Levels

The following information provides guidance for determining when to consider a confirmed release as a Leaking Petroleum Storage Tank (LPST) site. The term **RELEASE** is defined in 30 TAC §334.2 as "any spilling including overfills, leaking, emitting, discharging, escaping, leaching, or disposing from an underground storage tank into groundwater, surface water, or subsurface soils." Therefore, any amount of contamination (as determined by quantitative analytical results on soil or water samples or by the presence of non-aqueous phase liquid (NAPL)) is considered a release and must be reported within 24 hours of confirmation. However, the presence of contamination does not necessarily mean that action is necessary. To determine the need for additional corrective action (which includes assessment and/or remediation), compare the contaminant levels to the listed Action Levels. The term **ACTION LEVEL** indicates the concentration of constituents in the native soil or water at which some level of corrective action will be required. **These action levels should not be used as cleanup levels**; they are simply levels which signal LPST site determination and the need for additional site evaluation. In general, with the exception of the situation of NAPL in the tankhold, constituent levels in native soils and groundwater must exceed any of the listed action levels to be considered an LPST site. Based on actual site conditions, professional judgement should be used to determine the appropriate application of these levels.

When documentation of analytical results (utilizing the analytical methods specified in the pamphlet entitled *Soil and Groundwater Sampling and Analysis* (RG-14)) obtained from tank removal-from-service documentation or release determination information indicates that the constituent levels in the native soils and/or water exceed any of the action levels, then the site will be considered an LPST case and an LPST ID number will be assigned. There may be some situations where the benzene, ethylbenzene, toluene, and xylenes (BTEX) components are below the action levels and only the Total Petroleum Hydrocarbon (TPH) level exceeds the TPH screening level. In that case, the sample with the highest TPH level should be analyzed for Polynuclear Aromatic Hydrocarbons (PAH) as listed below (remember that PAH analyses have a 14-day holding time). The results should then be compared to the action levels. If the PAH levels (and the BTEX concentrations) do not exceed the action levels, the site will not be considered an LPST site.

Complete and submit this form within 20 days from the date of release confirmation. Typically the next step will be to conduct a Risk-Based Assessment to determine the degree of contamination present, unless a second set of confirmation samples confirmed limited migration of contaminants. A proposal for a risk-based assessment (or other appropriate activities) should be submitted with this form.

ACTION LEVELS AND SCREENING LEVELS			
CONSTITUENTS	**SOIL ACTION LEVELS (mg/kg)**		**GROUNDWATER ACTION LEVELS (mg/l)**
	Fine-Grained Soil*	**Coarse-Grained Soil***	
Benzene	0 50	0.50	0.005
Ethylbenzene	70	10	0.70
Toluene	100	20	1.0
Total Xylenes	560	70	10
Acenaphthene	314	314	.010
Anthracene	13	13	.010
Benzo(a)anthracene	.877	.877	.010
Benzo(b)fluoranthene	.877	.877	.010

ACTION LEVELS AND SCREENING LEVELS			
Benzo(k)fluoranthene	8.77	8.77	.010
Benzo(a)pyrene	.0877	0877	.010
Chrysene	7.2	7.2	.010
Dibenz(a,h)anthracene	.0877	.0877	.010
Fluoranthene	156	156	.010
Fluorene	247	247	.010
Indeno(1,2,3-cd)pyrene	.877	.877	.010
Naphthalene	389	389	.010
Pyrene	99	99	.010
SCREENING LEVELS			
Total Petroleum Hydrocarbons (TPH) for Middle Distillate Releases**	500	500	5
Total Petroleum Hydrocarbons (TPH) for Gasoline Releases**	100	100	5

* Apply the fine-grained soil standard to sites dominated with clays and silts. Apply the coarse-grained soil standards to sites dominated with sands, gravels, and rock units.

** Apply the middle distillate TPH standard to diesel, kerosene, jet fuel, hydraulic oil, and waste oil releases. Apply the gasoline standard to gasoline and aviation gasoline releases. At sites where both gasoline and middle distillate releases have occurred in the same area or tank hold, the gasoline standard will apply.

The listed action levels do not apply when:

- surface water is known or suspected to be impacted by the release;
- a water well or surface water intake is impacted or threatened;
- buildings or utilities are impacted with vapors;
- there are nuisance conditions such as odors, or discoloration or taste degradation to water supplies; or
- NAPL is present, either in the tankhold or in the native soil or groundwater.

In any such instances, the site should be listed as an LPST site.

PRIORITIZATION

For LPST sites, please review the risk-based prioritization system which starts on page 13. Based on the results of the release investigation and field observations, check any listed scenarios which are reasonably believed to be relevant to the site. Because a receptor survey is not needed to complete this form at this time, this is only for establishing a tentative priority. The actual priority will typically be determined following the completion of a receptor survey or subsequent site assessment.

PREAPPROVAL OF CORRECTIVE ACTION ACTIVITIES

Written approval from the TNRCC is required for all corrective action activities prior to initiation, with the exception of initial emergency abatement measures for the first 48 hours and NAPL recovery, in order for the reimbursement claims for those activities to be processed in the order received. Claims submitted for activities which have not been preapproved will be processed only after **all** claims for preapproved activities have been

processed and paid. A registered CAS and PM must submit the proposal which includes a work plan with a detailed description of technical tasks and cost proposal form(s). The format for the proposal is specified in the pamphlet entitled *Preapproval for Corrective Action Activities* (RG-111). For more information, please refer to the rules regarding reimbursement in 30 TAC §334.301-334.322.

CORRECTIVE ACTION SPECIALISTS AND PROJECT MANAGERS

The TNRCC requires that the services of a TNRCC-registered CAS and PM be employed to conduct corrective action services as outlined in Title 30, TAC, Section 334, Subchapter J. These corrective action services include all activities associated with site assessments, performance of risk evaluations, groundwater monitoring and remediation activities at sites at which a release has been confirmed. Corrective action services do not include activities associated with tank removals or repairs or with release determination activities. However, to take advantage of the expedited process and receive the letter concurring with the recommendations that the site is not an LPST site, the attached form must be signed by a LOSS, or CAS and PM as appropriate.

PRESENCE OF NON-AQUEOUS PHASE LIQUID

If assessment activities reveal the presence of any non-aqueous phase liquid (NAPL), then you are required, pursuant to 30 TAC 334.79, to immediately implement a recovery program which effectively removes the product from all impacted monitor wells, the tankhold, the piping chase, etc., to the maximum extent practicable and to notify this Office immediately. Daily observations should be made and appropriate action pursued to ensure that all NAPL is continuously removed.

OFF-SITE MIGRATION OF CONTAMINATION

Pursuant to 30 TAC Section 334.82(b), the owner and operator are required to notify all parties affected by the contamination. If contamination from the release has migrated off-site, or if the TNRCC requires further assessment or other corrective actions off-site, then the owner and operator are required to notify the affected landowner(s) within 30 days of documenting the impact. Please note that landowners may include the owner of the land on which the tanks are located and state and local owners of right-of-way properties. For the purpose of this requirement, notice shall be through any means described in §334.82(a). Please provide documentation that the affected landowner(s) has/have been notified within 30 days of the date notification is provided. **Please note that failure to notify affected parties as required herein is grounds for formal enforcement proceedings.**

RELEASE DETERMINATION REPORT FORM

Owners and operators must report releases by phone to the appropriate TNRCC Region Office within 24 hours of confirmation. The owner and operator should use this form to comply with the reporting requirements in Title 30, Texas Administrative Code §334.77(b). Submit the completed form within 20 days after release confirmation. EXCEPT IN EMERGENCIES, THE TNRCC WILL INITIATE ACTION ON THIS CASE ONLY WHEN THE COMPLETED FORM (pages 6 through 15) IS SUBMITTED WITH ATTACHMENTS TO BOTH THE APPROPRIATE TNRCC REGIONAL OFFICE AND TO THE CENTRAL OFFICE IN AUSTIN (PST Division, MC 137, P.O. Box 13087, Austin, Texas 78711-3087). **DO NOT MODIFY THIS FORM IN ANY WAY. Complete all applicable blanks.** Incomplete forms will be returned without review. All proposals for the next appropriate corrective action activity must be submitted by a CAS and PM in the format outlined in the guidance document entitled *Preapproval for Corrective Action Activities* (RG-111).

SUMMARY

Based on the information obtained during this release determination and by comparing the contaminant levels to the stated action levels, check **one** of these four items as appropriate:

☐ This was a suspected release. No contamination was detected due to this suspected release.

☐ This site **is** an LPST site. Contaminant levels exceed action levels (or one of the other criteria applies).

☒ This site **is not** an LPST site. Contaminant levels do not exceed action levels (and none of the other criteria applies).

☐ This site **is not** an LPST site. No contamination was detected (and none of the other criteria applies).

IF THIS SITE IS AN LPST SITE, COMPLETE THE REMAINDER OF THIS FORM (except Section B). If this site is not an LPST site, stop here and complete Sections A, C, and G (and Section B if applicable) of the attached form.

☐ Check here if this site is an existing LPST case and this Release Determination Report is being submitted only as the tank removal-from-service documentation.

Answer the following questions in this Summary Section if this is an LPST case and if the CAS and PM sign the form in Section G. This section is to be completed by a CAS and PM only. If the form is completed by someone other than a CAS and PM, leave the rest of this Summary Section blank and go to Section A.

Is this case eligible for reimbursement of necessary corrective actions? ☐ **YES** ☐ **NO** If not, appropriate corrective action in accordance with applicable rules and guidance may continue without specific direction or approval from the PST Division, however, coordination with the PST Division is recommended. If the site is eligible for reimbursement, all corrective action activities, with the exception of NAPL recovery and emergency abatement activities, must be preapproved prior to initiation.

The next appropriate step for this site, if it is an LPST site, is (check one only):

☐ **Case closure** — If checked, attach *Site Closure Request Form* (TNRCC-0028). Please be sure the site meets all requirements for closure prior to submitting the *Site Closure Request Form*. Are there costs associated with case closure? ☐ **YES** ☐ **NO** If YES, and if the site is eligible for reimbursement, attach a cost proposal and workplan with the *Site Closure Request Form.*

☐ **Risk-Based Assessment** — The risk-based assessment is needed only when the existing assessment data is not an adequate basis for site closure. Please critically evaluate the need for additional assessment before selecting this option. Refer to pamphlet RG-175 for guidance on conducting the risk-based assessment.

Attach a detailed workplan and proposal if the site is eligible for reimbursement. A proposal must be submitted with this form if the RP is financially able to undertake necessary corrective actions.

☐ **Corrective action other than risk-based assessment** — Attach a detailed workplan and proposal if the site is eligible for reimbursement and the RP is financially able to undertake necessary corrective actions.

Is the responsible party financially able to complete the next appropriate step? ☐ **YES** ☐ **NO** If Yes, attach proposal as specified above. If No, contact the PST Division at 512/239-2200 to request information on the State-Lead option. Financial ability determination forms must be completed and submitted to document that the RP is financially unable to continue necessary corrective actions.

A. GENERAL INFORMATION

LPST ID No.: N/A (If known) TNRCC Region: 4 Priority: 4 2 (see pages 13-15)

Facility ID No.: 0009696 Required unless one of the following applies:

☐ Check here if tank registration is not required for this site (per 30 TAC §334.7), **and** check one of the following as applicable:

- ☐ the tank(s) are partially excluded or exempted from jurisdiction under 30 TAC Chapter 334. Specify type or usage of tank(s): _____
- ☐ the tank(s) were permanently removed from the ground before May 8, 1986 (provide date of removal _____);
- ☐ the tank(s) remained in the ground but were emptied, cleaned, and filled with inert substance before January 1, 1974 (provide date of activities: _____);
- ☐ the tank(s) were out of operation, their existence was unknown, and they were permanently removed from service within 60 days of their discovery (provide date of discovery: _____. Describe method of discovery: _____ _____)

Prior to this investigation, was this site ever an LPST site? ☐ YES or ☒ NO If yes, provide LPST ID number: _____

Tank Owner: U.S Air Force, Air Force Center for Environmental Excellence

Tank Owner Mailing Address: 3207 North Road, Brooks Air Force Base

Tank Owner City: Brooks Air Force Base State: TX Zip: 73235

Tank Owner Contact Person: Joseph Dunkle Phone 210/536-5290 Fax no : 210/536-9026

Tank Operator (if different from tank owner): U.S. Air Force

Tank Operator Mailing Address: Same as above

Tank Operator City: _____ State: _____ Zip: _____

Tank Operator Contact Person: _____ Phone: _____ Fax no.: _____

Land Owner (if different from tank owner and operator): U.S. Air Force

Land Owner Mailing Address: Same as above

Land Owner City. _____ State: _____ Zip _____

Land Owner Contact Person: _____ Phone: _____ Fax no.: _____

If this site is an LPST site, which of these parties will oversee the corrective actions at this site?

☒ **Tank Owner** ☐ **Tank Operator** ☐ **Land Owner**

☐ Other (not the contractor or consultant): Name: _____

Address: _____

City: _____ State: _____ Zip: _____ Contact person: _____

Phone: _____ Fax: _____

A representative of the party overseeing the corrective action must sign this form in Section G. Please note that no matter which party conducts corrective action, the tank owner and the tank operator are jointly responsible for the necessary corrective actions.

Facility Name: Building 1658, Naval Air Station Fort Worth Joint Reserve Base

Facility Physical Address: Building 1658

Facility City. NAS Fort Worth JRB County: Tarrant County Code (see p. 16): 220

A. GENERAL INFORMATION

INDICATE TYPE OF RELEASE: (check one) ☐ Suspected ☒ Confirmed but below action levels (not an LPST site)
☐ Confirmed and above action levels (LPST site) ☐ No evidence of contamination (all results below detection limits)

Please refer to flowchart and Title 30 Texas Administrative Code, §334.71 - 334 77 for descriptions and procedures for suspected and confirmed releases

Were copies of this **COMPLETED** form (excluding pages 1 through 5) **AND APPROPRIATE ATTACHMENTS**, including a proposal (if RP is financially able), sent to **both** the TNRCC Central Office and to the Region Office? ☒ **YES** ☐ **NO** (IF THE FORM IS NOT COMPLETE, THIS DOCUMENT WILL BE RETURNED WITHOUT REVIEW).

Indicate number of tanks currently and formerly located at this site (attach pages as necessary):

	Type (UST/AST)	Product Type	Size (approx. gal)	Date Removed from Service
Current:	N/A			
Former:	UST	Diesel	275 gal	10/3/90

B. SUSPECTED RELEASE INFORMATION

Complete only this section and sections E through G as appropriate when the situation of a suspected release has occurred and it was documented that a release had not occurred.

Date suspected release discovered: 10/3/90 Reason release suspected: Visual staining and/or odor observed during tank removal.

Date suspected release reported to TNRCC: Unknown Reported to: Unknown

Possible source(s) of release: (check all that apply) Tanks: ☐ USTs ☐ ASTs ☐ Piping ☐ Overfills/spills ☒ Unknown
☐ Other: _____

Type of substance(s) suspected released: (check all that apply) ☐ Gasoline ☒ Diesel ☐ Used Oil ☐ Aviation Gasoline
☐ Jet Fuel (type _____) ☐ Alcohol-blended fuel (Type and percentage of alcohol: _____)
☐ Other: (be specific) _____

Were UST/AST system tank and/or line tightness tests performed? ☐ **YES** or ☒ **NO** (check one) If yes, attach test data and results.
Did the tests indicate that all tanks and piping were tight? ☐ **YES** or ☐ **NO** (check one) If No, specify the portion of the tank system(s) that were found not to be tight: _____

Were any repairs conducted on the tank system(s)? ☐ **YES** or ☒ **NO** (check one) If yes, describe type(s) and location of repairs:
_____

Were tightness tests performed after repairs were conducted? ☐ **YES** or ☒ **NO** (check one) If yes, attach test data and results.
Did the tests indicate that the repaired items were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight: _____

Were any soil confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, were all potential source areas investigated? ☒ **YES** or ☐ **NO** If samples were collected, attach descriptions of sample locations, collection methods, and laboratory results.

Were any groundwater confirmation samples collected? ☐ **YES** or ☒ **NO** (check one) If yes, were all potential source areas investigated? ☐ **YES** or ☐ **NO** If samples were collected, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results. (Groundwater sampling is not required at this point unless there is reasonable suspicion of impact.)

C. CONFIRMED RELEASE INFORMATION

Complete this section only if a release was confirmed.

Date release confirmed: 10/3/90 Date release reported to TNRCC: Unknown Reported to: Unknown

Is this the first release from a UST or AST discovered at this site? ☒ **YES** ☐ **NO**

Is there any other contamination or potential impacts to human health from any source other than the tank systems at this site?
☐ **YES** ☒ **NO** If yes, indicate type and location of contamination: _____

Reported to TNRCC by: Unknown Representing: _____

Method of release discovery:

- ☒ Samples collected during tank removal-from-service activities
- ☐ Samples collected during other tank system construction activities
- ☐ Samples collected during release determination investigation
- ☐ Other: _____
- ☐ Impact to utility line
- ☐ Impact to surface water
- ☐ Impact to water well

Method of release confirmation: (check all that apply)
☒ Soil samples ☐ Groundwater samples ☐ Surface water samples ☐ Documentation of presence of NAPL

Source(s) of release: (check all that apply) Tanks. ☐ USTs ☐ ASTs ☐ Piping ☐ Overfills/spills ☒ Unknown
☐ Other: _____

Substance(s) released: (check all that apply) ☐ Gasoline ☒ Diesel ☐ Used Oil ☐ Aviation Gasoline
☐ Alcohol-blended fuel (Type and percentage of alcohol: _____)
☐ Jet Fuel (type: _____) ☐ Other: (be specific) _____
Amount of product released: _____ Chemical Abstract Service registry #: _____ (for hazardous substances)

Were any soil confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, attach descriptions of sample locations, collection methods and laboratory results.

Type of native soil: (check one) ☒ Clay or silt ☐ Sand, gravel or rock

Were any groundwater confirmation samples collected? ☐ **YES** or ☒ **NO** (check one) If yes, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results.

Known Impact(s): (check all that apply) ☐ Soil ☐ GW ☐ Surface Water ☐ Subsurface Utilities - type: _____
☐ Buildings ☐ Water wells ☐ Other sensitive receptors: No known impacts

Was the land owner (if different from the tank owner) notified of the contamination? ☒ **YES** or ☐ **NO** (check one) If Yes, attach copy of the letter which provided the notification. If No, documentation that notification was provided must be submitted within 30 days from the date the impact is discovered.

Possibly Threatened. (check all that apply) ☐ GW ☐ Surface Water ☐ Subsurface Utilities - type: _____
☐ Buildings ☐ Water wells ☐ Other sensitive receptors: None

Was NAPL detected (greater than 0 01 feet)? ☐ **YES** or ☒ **NO** (check one) If yes, describe how and where it was detected, the thickness detected, and the recovery actions taken: _____

D. ABATEMENT MEASURES

Were abatement measures initiated to stop the release or to recover the released substance? ☐ **YES** or ☐ **NO** (check one) If yes, describe the abatement and/or recovery measures taken and the dates and duration of the activities: _____

_____

Were UST/AST system tank and/or line tightness tests performed? ☐ **YES** or ☐ **NO** (check one) If yes, attach test results.
Did the tests indicate that all tanks and piping were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight:

Were any repairs conducted on the tank system(s)? ☐ **YES** or ☐ **NO** (check one) If yes, describe type(s) and location of repairs:

_____

Were tightness tests performed after repairs were conducted? ☐ **YES** or ☐ **NO** (check one) If yes, attach test results.
Did the tests indicate that the repaired items were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight:

E. FIRE/OTHER OFFICIALS

Were any other officials notified? ☐ **YES** ☐ **NO** (check one) If Yes, indicate.

Name	Representing	Phone number	Date(s) Notified

Were any directives issued by the fire or other officials? ☐ **YES** ☐ **NO** If Yes, describe directives and actions taken in response to the directive: _____

_____

F. WASTE DISPOSITION

Indicate the status of all wastes and other materials generated:

Type of waste (soil, water, product)	Quantity	Current location	Method and location of disposal or treatment

G. REPORT PREPARATION

A Licensed On-Site Supervisor may complete and sign this form when the supervisor is acting in an approved capacity for tank removal-from-service or tank system repair activities.

Licensed On-Site Supervisor: _____ ILP Reg. No.: _____ Exp. Date: _____

Company: _____

Telephone No.: _____ FAX No.: _____

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

Signature: _____ Date: _____

OR

Project Manager: Brad Nielsen PM Reg. No.: CAPM01291 Exp. Date: 2/10/2000

Company: HydroGeoLogic, Inc.

Telephone No.: 512/336-1170 FAX No.: 512/336-0178

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

PM Signature: [signature] Date: 5/28/99

AND

CAS Representative: Miquette E. Rochford, P.G. CAS Reg No.: RCAS00700 Exp. Date: 6/11/2000

Company: HydroGeoLogic, Inc.

Telephone No.: 703/478-5186 FAX No.: 703/471-4180

By my signature affixed below, I certify that I am the duly authorized representative of the Correction Action Specialist named and that I have personally reviewed the site investigation results and other relevant information presented herein and considered them to be in accordance with accepted standards/practices and in compliance with the applicable TNRCC published rules, guidelines and the laws of the State of Texas. Further, that the information presented herein is considered complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

Signature of CAS Representative: Miquette E. Rochford Date: 5/27/99

If the CAS or On-Site Supervisor does not complete and sign this form, provide the following information on the person who has prepared the form:

Name: [illegible] Company: _____

Telephone No.: _____ FAX No.: _____

Signature: _____ Date: _____

Name of Tank Owner or Operator contact: Joseph Dunkle, HQ-AFCEE/ERD

Telephone No.: 210/536-5290 FAX No.: 210/536-9026

By my signature affixed below, I certify that I have reviewed this report for accuracy and completeness of information regarding points of contact and the facility and storage tank system history and status. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report related to the contact information, and the facility and storage tank system history and status information, I may be subject to administrative, civil, and/or criminal penalties. I attest that I have reviewed this report for accuracy and completeness. I understand that I am responsible for addressing this matter.

Signature: [illegible] Date: 6/1/99

ATTACHMENTS:

The following information must be submitted with this document:

- Copy of letter notifying land owners of the existence of contamination (if applicable);
- Site diagram with location of the tank system(s), suspected or known point of release(s), and all sampling points;
- If borings were drilled, copies of the boring logs;
- Copies of the State of Texas Well Reports (form no. TNRCC-0199) for any installed monitor wells;
- List of analytical results and sample identification for all soil and water samples collected;
- Descriptions of sample collection and handling methods;
- Copies of signed laboratory reports and chain-of-custody documentation;
- Copies of most recent tank system tightness tests, if performed;
- Documentation of any tank system repairs or replacements; and
- Waste disposal, treatment, or recycling or reuse documentation, including manifests and signed receipts from the receiving facility for any wastes already generated.

Also include the following attachments (in addition to the applicable items listed above) if this form serves as the documentation as required by 30 TAC 334.55 for a tank removal-from-service:

- A written description of the tanks and/or piping at the time of their removal;
- A written description of the removal, transportation, and disposition of the tank(s), all substances removed from the tank, all contaminated soils and water, and all other associated wastes;
- A copy of the original Construction Notification form which was filed for the removal activity;
- The TNRCC Central Office tracking number for the removal activity. If unknown, then provide a copy of the TNRCC letter which acknowledged receipt of the original Construction Notification form;
- A copy of the amended TNRCC UST Registration form (form no. TNRCC-0724), signed by the owner or the owner's representative, showing the date the tank(s) was/were removed from the ground. **Submit the original registration form to the PST Division's Registration Section at the address listed on the form.** Submit a **copy** of the form with this document.
- A site map (drawn to scale) which portrays the following: the locations and types of USTs formerly in place; the locations of the former product lines and dispenser; the locations (with designation numbers) of all samples collected during the UST removal process; the final limits of excavation; a North arrow; and a legend and bar scale.
- The inclusion of photographs can be helpful when describing tank and/or piping conditions or the removal process. If photos are provided, they should be glued or taped to a letter-sized sheet of paper with a description of the view typed or printed beneath each photo.

LPST CASE PRIORITIZATION

The actions listed for each priority serve as a guide to assist the tank owner and operator in determining appropriate actions based on site conditions. Preapproval for corrective action activities should be obtained for sites eligible for reimbursement. Please refer to the applicable rules in Title 30, Texas Administrative Code, §334.72-334.81 and other TNRCC guidance for more detailed information.

PRIORITY 1 SITES

Is NAPL (free product) present? ☐ **yes** ☐ no Utilize all known information on site soils, vapors, groundwater, surface water, and other impacts and mark all boxes which match site conditions. The lowest value is the site priority If the answers to any statements are unknown, additional assessment, usually in the form of a Risk-Based Assessment (RBA), should be completed.

	PRIORITY	ACTIONS
☐ 1 1	Explosive levels, or concentrations of vapors that could cause acute health effects are present in a residence or other building (If yes, ensure the local fire authority or State Fire Marshal (512/918-7100) and the local TNRCC Region Office have been notified.)	**Emergency Actions**· Notify appropriate authorities, property owners, and potentially affected parties. Mitigate vapor impact **Additional Actions** Conduct receptor survey Conduct assessment of contaminant plumes. Determine target cleanup levels Conduct remediation as necessary
☐ 1 2	An active public water supply well, public water supply line, or public surface water intake is impacted or immediately threatened by the release (If yes, ensure the public authority and the local TNRCC Region Office have been notified)	**Emergency Actions:** Notify appropriate authorities, well users, and property owners Prevent further migration. Mitigate impact. Discontinue use of water supply **Additional Actions:** Provide alternative water source*. Conduct receptor survey. Conduct assessment of contaminant plumes in relation to water supply impact Determine target cleanup levels Conduct remediation as necessary
☐ 1 3	A sole-source domestic water supply well or line, or sole-source domestic surface water intake is impacted or immediately threatened by the release. (Ensure the well user or surface water user and the local TNRCC Region Office have been notified.)	**Emergency Actions:** Notify appropriate authorities, well users, and property owners Prevent further migration Mitigate impact Discontinue use of water supply **Additional Actions:** Provide alternative water source* Conduct receptor survey Conduct assessment of contaminant plumes in relation to water supply impact Determine target cleanup levels. Conduct remediation as necessary
☐ 1 4	Explosive vapors are present in a subsurface utility system, but no building or residence is impacted (Ensure the utility authority and the local TNRCC Region Office have been notified)	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties Mitigate vapor impact **Additional Actions:** Conduct receptor survey. Conduct assessment of contaminant plumes Determine target cleanup levels. Conduct remediation as necessary.
☐ 1 5	NAPL is present at the ground surface, on surface water bodies, surface water runoff, or in utilities other than water supply lines (Ensure the utility authority is notified if utilities are affected Ensure free product removal actions are implemented as required pursuant to 30 TAC 334 79)	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties Secure area **Additional Actions:** Conduct free product removal activities Prevent migration of free product Conduct assessment in relation to impact Conduct receptor survey Determine target cleanup levels. Conduct remediation as necessary
☐ 1 6	The Edwards aquifer, recharge zone or transition zone is impacted	**Emergency Actions:** Recover free product if present **Additional Actions:** Initiate assessment activities Conduct assessment in relation to impact Conduct receptor survey Determine target cleanup levels Conduct remediation as necessary Determine if free product is present and, if so, conduct free product removal activities
☐ 1 7	Ambient outdoor vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties Mitigate immediate impacts **Additional Actions:** Conduct sufficient assessment to determine exposure pathways, receptor types and locations, and target cleanup goals Determine if free product is present and, if so, conduct free product removal activities.

*Reimbursement for provision of alternative water supply is contingent upon 30 TAC 334.308 (c)(3)

PRIORITY 2 SITES

	PRIORITY	ACTIONS
☐ 2 1	Soils or water contaminated by the release are exposed and unsecured from public access and dwellings, playgrounds, parks, day care centers, schools, or similar use facilities are located within 500 feet of those soils	Remove, cover, or otherwise secure exposed soils or water Fill open excavations. Conduct actions necessary to contain contamination or prevent impact or exposure
☐ 2 2	A former vapor impact is associated with this site, or free product is present in close proximity to subsurface utilities or other natural or man-made conduit and there is potential for the accumulation of explosive vapors or vapors that could cause acute effects in a building or other structure	Remediate/remove vapors, free product, or contaminated soils. Determine migration pathways and remove/prevent migration pathways Conduct assessment of contaminant plumes in relation to the potential vapor pathway. Determine target cleanup levels Conduct actions necessary to contain contamination or prevent impact or exposure.
☐ 2 3	A domestic water supply well or line, or a domestic surface water intake is impacted or immediately threatened by the release, but the user has access to another public or private water supply (Ensure the user and the local TNRCC Region Office have been notified)	Notify proper authorities, users, and property owners. Prevent migration to water intake Provide alternative water supply if necessary. Conduct assessment to identify contaminant plumes and exposure pathways in relation to water intake Determine appropriate target cleanup goals based on site conditions Conduct actions necessary to contain contamination or prevent impact or exposure.
☐ 2.4	A non-public or non-domestic water supply well is impacted or immediately threatened (Do not consider monitor wells) (Ensure the user and the local TNRCC Region Office have been notified)	Notify proper authorities, well users, and property owners. Prevent migration to water well. Provide alternative water supply if necessary Plug water well if necessary Conduct assessment to identify contaminant plumes and exposure pathways in relation to water well Determine appropriate target cleanup goals based on site conditions Conduct actions necessary to contain contamination or prevent impact or exposure
☐ 2 5[1]	Groundwater is impacted and a public or domestic water supply well is located within 0 25 miles of the UST/AST system or source area. (Answer yes if a well is present, but the well use is unknown). **(See footnote 1 before responding.)**	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential. Determine appropriate cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure.
☐ 2 6	Groundwater or storm water runoff is impacted and discharges within 500 feet of the known extent of contamination to a surface water body used for human drinking water, contact recreation, habitat to a protected or listed endangered plant and animal species	Conduct assessment which addresses the contaminant plumes in relation to the surface water Determine target cleanup levels Conduct actions necessary to contain contamination or prevent impact or exposure Notify property owners if impact is documented
☐ 2 7	A public or domestic water supply well that produces from a groundwater zone which is not impacted or threatened is located within the known extent of contamination (Answer yes if a well is present, but the well use is unknown)	Notify well users and property owners Determine completion data and usage of water well(s) Conduct receptor survey to locate additional sensitive receptors. Investigate well impact or cross-contamination potential. Plug well(s) if necessary. Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure. Monitor water well for groundwater quality.

PRIORITY 3 SITES

	PRIORITY	ACTIONS
☐ 3 1[1]	Groundwater is impacted and a public or domestic water supply well is located between 0 25 and 0 5 miles from the UST/AST system or source area (Answer yes if a well is present in this interval, but the well use is unknown) **(See footnote 1 before responding.)**	Determine completion data and usage of well(s) if not already known Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential. Evaluate need for remediation
☐ 3 2	Groundwater is impacted and the impacted groundwater zone may discharge between 500 feet and 0.25 miles of the UST/AST or source area to a surface water body used for human drinking water, contact recreation, or habitat to a protected or listed endangered plant and animal species	Conduct assessment which evaluates potential to impact the surface water. Evaluate need for remediation.
☐ 3.3[1]	Groundwater is impacted and a non-public or non-domestic water supply well is located within 0 25 miles of the UST/AST system or source area **(See footnote 1 before responding.)**	Determine completion data and usage of well(s) if not already known Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Evaluate well impact potential contaminate. Evaluate need for remediation.
☐ 3.4	A non-community or non-domestic water supply well that produces from a groundwater zone which is not impacted or threatened is located within the known extent of contamination. (If a well is present, but the use of the well is unknown, answer yes to 2.7 instead)	Notify well users and property owners. Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Investigate well impact or cross-contamination potential Monitor water well for groundwater quality Evaluate need for remediation
☐ 3 5[2]	A designated major or minor aquifer groundwater is impacted or immediately threatened. **(See footnote 2 before responding.)**	Conduct assessment of soil and groundwater contaminant plumes in relation to major or minor aquifer Conduct receptor survey and water well inventory Evaluate need for remediation

PRIORITY 4 SITES

	PRIORITY	ACTIONS
☐ 4.0	The extent of contamination has not been defined, but there is no indication that any of the other case priority conditions apply.	Conduct assessment of soil and/or groundwater contaminant plumes. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.
☐ 4.1	Groundwater is affected.	Conduct assessment of soil and groundwater contaminant plumes. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions
☒ 4 2	The vertical extent of contamination has been defined and the assessment results document that groundwater is not affected.	Conduct assessment of soil contaminant plume. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.

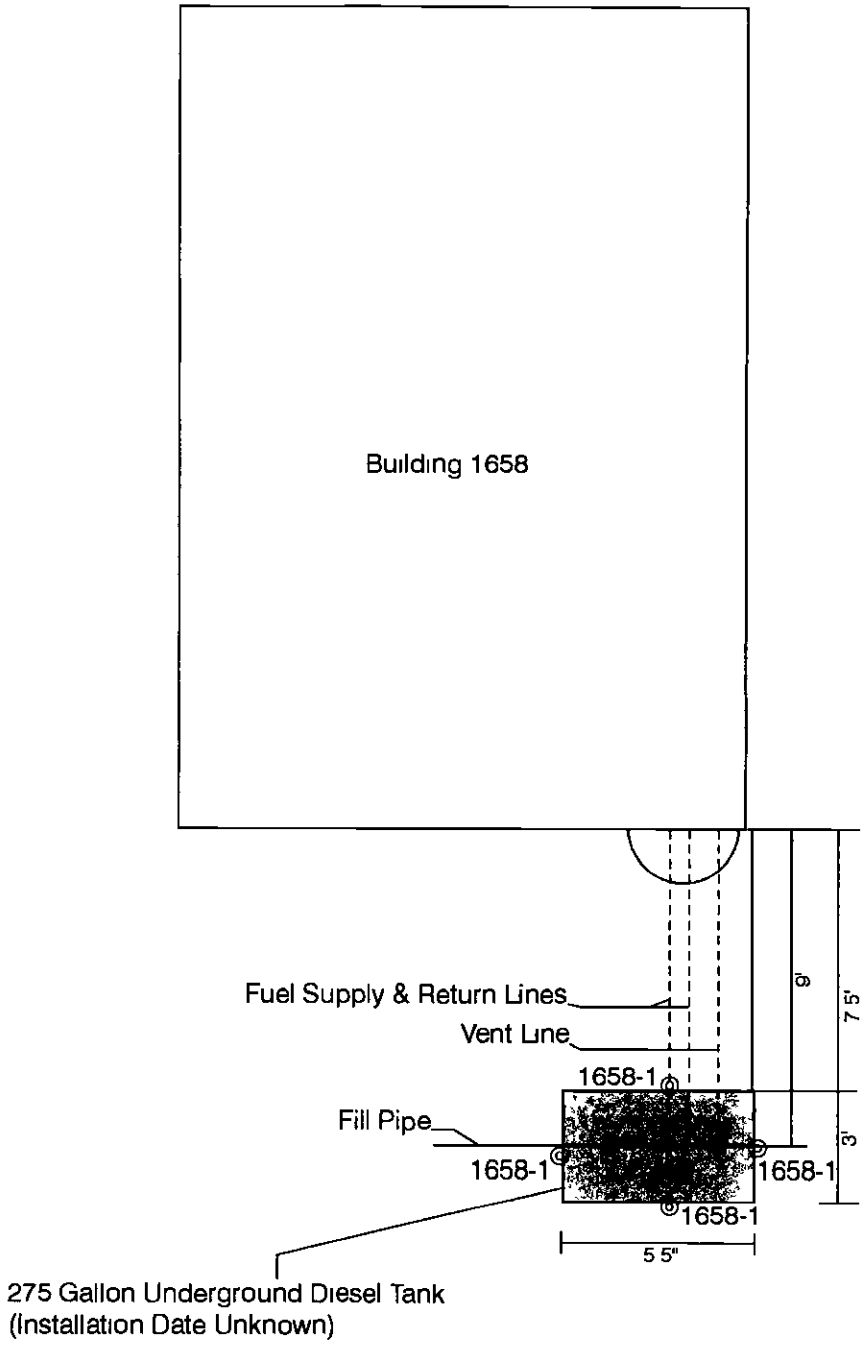
1 Consider only wells producing from the same interval as the impacted groundwater zone at the release site, wells which may provide a cross-contamination pathway, or wells where completion details are unknown

2. Refer to Major and Minor Aquifers of Texas Maps prepared by Texas Water Development Board, September 1990 Do not consider the low permeability Beaumont clays of the Beaumont Formation for the Gulf Coast aquifer. Do not consider a perched groundwater zone overlaying the principal producing portion of the aquifer unless the two are hydrologically connected.

COUNTY CODE LIST

1	Anderson	38	Childress	75	Fayette	112	Hopkins	149	Live Oak	186	Pecos	223	Terry
2	Andrews	39	Clay	76	Fisher	113	Houston	150	Llamb	187	Polk	224	Throckmorton
3	Angelina	40	Cochran	77	Floyd	114	Howard	151	Loving	188	Potter	225	Titus
4	Aransas	41	Coke	78	Foard	115	Hudspeth	152	Lubbock	189	Presidio	226	Tom Green
5	Archer	42	Coleman	79	Fort Bend	116	Hunt	153	Lynn	190	Rains	227	Travis
6	Armstrong	43	Collin	80	Franklin	117	Hutchinson	154	McCulloch	191	Randall	228	Trinity
7	Atascosa	44	Collingsworth	81	Freestone	118	Irion	155	McLennan	192	Reagan	229	Tyler
8	Austin	45	Colorado	82	Frio	119	Jack	156	McMullen	193	Real	230	Upshur
9	Bailey	46	Comal	83	Gaines	120	Jackson	157	Madison	194	Red River	231	Upton
10	Bandera	47	Comanche	84	Galveston	121	Jasper	158	Marion	195	Reeves	232	Uvalde
11	Bastrop	48	Concho	85	Garza	122	Jeff Davis	159	Martin	196	Refugio	233	Val Verde
12	Baylor	49	Cooke	86	Gillespie	123	Jefferson	160	Mason	197	Roberts	234	Van Zandt
13	Bee	50	Coryell	87	Glasscock	124	Jim Hogg	161	Matagorda	198	Robertson	235	Victoria
14	Bell	51	Cottle	88	Goliad	125	Jim Wells	162	Maverick	199	Rockwell	236	Walker
15	Bexar	52	Crane	89	Gonzales	126	Johnson	163	Medina	200	Runnels	237	Waller
16	Blanco	53	Crockett	90	Gray	127	Jones	164	Menard	201	Rusk	238	Ward
17	Borden	54	Crosby	91	Grayson	128	Karnes	165	Midland	202	Sabine	239	Washington
18	Bosque	55	Culberson	92	Gregg	129	Kaufman	166	Milan	203	San	240	Webb
19	Bowie	56	Dallam	93	Grimes	130	Kendall	167	Mills	204	San Jacinto	241	Wharton
20	Brazoria	57	Dallas	94	Guadalupe	131	Kenedy	168	Mitchell	205	San	242	Wheeler
21	Brazos	58	Dawson	95	Hale	132	Kent	169	Montague	206	San Saba	243	Wichita
22	Brewster	59	Deaf Smith	96	Hall	133	Kerr	170	Montgomery	207	Schleicher	244	Wilbarger
23	Briscoe	60	Delta	97	Hamilton	134	Kimble	171	Moore	208	Scurry	245	Willacy
24	Brooks	61	Denton	98	Hansford	135	King	172	Morris	209	Shackelford	246	Williamson
25	Brown	62	DeWitt	99	Hardeman	136	Kinney	173	Motley	210	Shelby	247	Wilson
26	Burleson	63	Dickens	100	Hardin	137	Kleberg	174	Nacogdoches	211	Sherman	248	Winkler
27	Burnet	64	Dimmit	101	Harris	138	Knox	175	Navarro	212	Smith	249	Wise
28	Caldwell	65	Donley	102	Harrison	139	Lamar	176	Newton	213	Somerville	250	Wood
29	Calhoun	66	Duval	103	Hartley	140	Lamb	177	Nolan	214	Starr	251	Yoakum
30	Callahan	67	Eastland	104	Haskell	141	Lampasas	178	Nueces	215	Stephens	252	Young
31	Cameron	68	Ector	105	Hays	142	La Salle	179	Ochiltree	216	Sterling	253	Zapata
32	Camp	69	Edwards	106	Hemphill	143	Lavaca	180	Oldham	217	Stonewall	254	Zavala
33	Carson	70	Ellis	107	Henderson	144	Lee	181	Orange	218	Sutton		
34	Cass	71	El Paso	108	Hidalgo	145	Leon	182	Palo Pinto	219	Swisher		
35	Castro	72	Erath	109	Hill	146	Liberty	183	Panola	220	Tarrant		
36	Chambers	73	Falls	110	Hockley	147	Limestone	184	Parker	221	Taylor		
37	Cherokee	74	Fannin	111	Hood	148	Lipscomb	185	Parmer	222	Terrell		

Attachment 1
Figure



Filename: X:\AFC001\15BBF\Report\bldg_1658.cdr
Project: AFC001-15BBF
Created by: cfarmer 03/29/99
Revised: 05/26/99 ap
Source: As-Build Drawings

Legend

◎1658-1 Composite of Wall Samples
◎1658-2 Floor Sample
N
Drawing not to scale

Figure 1
UST at Building 1658
Tank Location
NAS Fort Worth JRB, Texas

Attachment 2
Analytical Results

Eagle Construction
CLIENT NO. 5202390
DATE OF SERVICE: 10/12/90.

REPORT NO. 0602
PAGE 3

REPORT OF TESTS (Continued)

Parameters	Wall 1658-1	Bottom 1658-2	Detection Limits
Benzene, mg/kg	<0.02	<0.02	0.0
Toluene, mg/kg	<0.02	<0.02	0.0
Ethyl Benzene, mg/kg	<0.02	<0.02	0.0
Xylene, mg/kg	<0.02	<0.02	0.0
Total BTEX, mg/kg	<0.02	<0.02	0.0
Total Petroleum Hydrocarbons, mg/kg	<5.0	35.0	0.0

Note: Eptox Extraction for Chromium and Lead to Follow.

Method: SW846, 1310, 7190, 7420 and 8020
EPA #418.1

Analyst: MD & LK - SwL Dallas

Technician: Alan Morrill

Report Distribution:
(2) Eagle Construction

SOUTHWESTERN LABORATORIES, INC.

Kemp E. Akeman, P.E.
Materials Engineer

1099 R/B

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SOUTHWESTERN LABORATORIES

Eagle Construction
CLIENT NO. 5202390
DATE OF SERVICE: 10/12/90

REPORT NO. 0602
PAGE 2

REPORT OF TESTS (Continued)

Parameters	8505-1	Soil 1658-3	8507-1	Detection Limits
Benzene, mg/kg	<0.02	<0.02	<0.02	0.02
Toluene, mg/kg	<0.02	<0.02	<0.02	0.02
Ethyl Benzene, mg/kg	<0.02	<0.02	<0.02	0.02
Xylene, mg/kg	<0.02	<0.02	<0.02	0.02
Total BTEX, mg/kg	<0.02	<0.02	<0.02	0.02
Total Petroleum Hydrocarbons, mg/kg	<5.0	28.0	100.0	5.0

Report Of Tests Continued On Page 3

TANK ID # 1658-1

EAGLE CONSTRUCTION & ENVIRONMENTAL SERVICES, INC.

P.O. BOX 872
EASTLAND, TX 76448-0872

Chain Of Custody Record

Project I.D. Bldg 1658
Project Location Carswell AFB
Sampled By Oren Webb
Client Name Operating Contract Division
Address Carswell AFB Ft Worth
Telephone

Sample Number	Date	Time	Composite	Grab	Sample Location	Number of Containers	TRPH	BTEX	E.P. Tox Metals					Remarks (Type sample, preservation, etc.)
1 658	10/10	11:25 AM	X		Walls 90°	1	✓	✓	✓					
2 658	10/10	11:25 AM	X		Bottom	1	✓	✓	✓					
3 658	10/10	11:25 AM	X		Soil (0-0.)	1	✓	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Oren Webb	10/12	1:15 PM	[signature]				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	10/12	4:15	[signature]				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Shipped / Delivered:	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks:			
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)				

615 58

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
CORRESPONDENCE IDENTIFICATION SHEET

Date: June 1, 1999
Site Name: UST #5 at Building 1518, NAS Fort Worth JRB
Site Address: Building 1518
NAS Fort Worth JRB, Texas

LPST ID No.: N/A
Facility ID No.: 0009696

This checklist **must** accompany all correspondence submitted to the RPR Section and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence which you have submitted to the RPR Section. Check all boxes that apply if you are submitting more than one type of correspondence. If you cannot find an appropriate category, please complete the "other" section.

PROPOSALS

- ☐ Initial Abatement (1)
- ☐ Tank Removal (2)
- ☐ Excavation (3)
- ☐ Waste Treatment (4)
- ☐ Site Assessment (5)
- ☐ Aquifer Testing (6)
- ☐ VES/Sparge Testing (7)
- ☐ Qtrly. GW Monitoring (8)
- ☐ CAP Prep. (9)
- ☐ GW Extrac./Treatment (10)
- ☐ Soil Vapor Extrac. (11)
- ☐ Operation & Main. (12)
- ☐ Site Closure (13)
- ☐ Plan A Risk Ass. (14)
- ☐ Plan B Risk Ass. (15)
- ☐ Semi-annual GW Mon. (16)*
- ☐ Annual GW Mon. (18)
- ☐ Product Recovery (19)
- ☐ Other proposal _____

REPORTING FORMS

- ☐ Assessment Report Form (TNRCC-0562)
- ☐ LPST Case Questionnaire
- ☐ Product Recovery Report Form (TNRCC-0016)
- ☒ Release Report Form (TNRCC-0621)
- ☐ Site Closure Request Form (TNRCC-0028)
- ☐ Monitoring Event Summary and Status Report (TNRCC-0013)
- ☐ Final Site Closure Report Form (TNRCC-0038)
- ☐ Priority 4 LPST Case Closure Request Form (TNRCC-0461)
- ☐ Other form _____

REPORTS

- ☐ Tank Closure/Removal
- ☐ Plan A Risk Assessment
- ☐ Annual Groundwater Monitoring
- ☐ O&M/Performance Mon.
- ☐ Plan B Risk Assessment
- ☐ CAP Installation/Modification
- ☐ Property Divestiture/Phase I ESA
- ☐ Corrective Action Plan (CAP)
- ☐ Aquifer/Pilot Test Results

MISCELLANEOUS

- ☐ Off-site access assistance
- ☐ Deadline Extension Request
- ☐ Tank tightness test results
- ☐ Request for State-Lead
- ☐ Request for LPST Waste Code
- ☐ Class V Reinjection Request
- ☐ Notice to Owner/Operator for CAS Services
- ☐ Petroleum-Substance Waste Manifest
- ☐ Notice of Continuation of Groundwater Monitoring
- ☐ Underground Storage Tank Registration Form
- ☐ Notice of Continuation of Operation and Maintenance
- ☐ Aboveground Storage Tank Registration Form
- ☐ Other (anything that does not fit into one of the categories above) _____

* The proposal for semi-annual monitoring and annual report (Proposal Activity 17) has been discontinued. For semi-annual monitoring, use Proposal Activity 16.

I attest that all work has been conducted in accordance with accepted industry standards/practices and adhered to TNRCC guidance and rules. I certify that I am aware that misrepresentation of any of the above claims is a violation of 30 TAC 33.4453(b)(1)(E) and that this violation may result in the disciplinary actions set forth in 30 TAC 334.453 and or 334 463 and 334 465.

If a proposal is attached for preapproval, has the proposed work, in part or in whole, already been performed or in progress? ☐ Yes ☐ No

If yes, what work? _____

HydroGeoLogic, Inc.	RCAS00700	6/11/2000
(Registered Corrective Action Specialist)	(RCAS Reg No)	(Expiration date)

Virginia Rockford — 5/27/99
(Signature) (Date)

703/478-5186	703/471-4180
(Telephone #)	(Fax #)

Brad Nielsen	CAPM01291	2/10/2000
(Project Manager)	(CAPM Reg No)	(Expiration date)

5/28/99
(Signature) (Date)

512/336-1170	512/336-0178
(Telephone #)	(Fax #)

By signature below, I certify that documents checked above are included.

Joseph Dunkle	HQ-AFCEE/ERD
(Name of Responsible Party Contact)	(Company)

6/1/99
(Signature) (Date)

210/536-5290	210/536-9026
(Telephone #)	(Fax #)

HYDRO GeoLogic INC

June 1, 1999

Texas Natural Resource Conservation Commission
Petroleum Storage Tank Division - MC137
P.O. Box 13087
Austin, TX 78711-3087

Ref: Release Determination Report for UST No. 5 at Building 1518
NAS Fort Worth JRB, Texas

Dear Sir or Madam:

Please find the enclosed Release Determination Report Form (TNRCC-0621) for UST No. 5 located at Building 1518, NAS Fort Worth JRB, Texas This tank system was composed of a 600 gallon fiberglass underground storage tank with associated piping and was formerly used to store waste oil produced on-site at the Base Service Station. The tank was located on the southwest side of Building 1518 and is shown in Figure 1. This tank was removed in March of 1996 by Jacobs Engineering Group, Inc., and was reported to the United States Air Force Base Conversion Agency in a report titled *Removal/Upgrade of Underground Storage Tanks*, March 1997 Five soil samples and one groundwater sample were collected from the UST excavation and contained concentrations of TPH and BTEX below TNRCC Action Levels. Stockpiled soils removed during the excavation activities were found to have concentrations of TPH and BTEX below TNRCC Action Levels and were used as backfill in the tank excavation. Soil sampling locations and analytical results are presented in Figure 2.

This site has been the study for groundwater contamination resulting from a leaking UST system also located at Building 1518. The leaking UST system is registered with the TNRCC as LPST 104524. This tank system was located to the east of Building 1518 and was composed of four 10,000 gallon USTs used to store unleaded gasoline. The former waste oil UST system is in no way associated with that of LPST 104524 and is being reported as a separate UST system. Based on the data presented, the former waste oil UST at Building 1518 does not meet the qualifications to be considered an LPST site.

If you have any questions or comments, please do not hesitate to contact me at 512/336-1170.

Sincerely,

Brad Nielsen
Project Geologist, CAPM01291

Enclosure

cc. TNRCC Region 4/Arlington
Joseph Dunkle, HQ-AFCEE/ERD
James P. Costello, HydroGeoLogic, Inc.

HydroGeoLogic, Inc.
1155 Herndon Parkway • Suite 900 • Herndon, Virginia 20170 • USA
(703) 478-5186 • Fax (703) 471-4180 • http://www.access.digex.net/~hgl

Texas Natural Resource Conservation Commission
PETROLEUM STORAGE TANK DIVISION
RELEASE DETERMINATION REPORT

INTRODUCTION

The PST Division has established a new process for expedited reporting of release determinations by Corrective Action Specialists (CAS), or by Licensed On-Site Supervisors (LOSS) if discovered during a tank removal from service or tank repair activity.

This process facilitates quick response from the TNRCC as to whether or not a release will be pursued as a Leaking Petroleum Storage Tank (LPST) site in order to ensure adequate opportunity to meet the corrective action deadlines stipulated in Title 30, Texas Administrative Code (TAC) §334.312. The TNRCC will rely on the professional documentation of the release determination by the CAS or LOSS, as appropriate, to identify LPST sites. Any release investigation not documented by a CAS or LOSS is not eligible for this expedited process. If the CAS or LOSS identifies a release and the contaminant levels exceed action levels, the site will be filed as an LPST site. If the release determination conducted by the CAS or LOSS does not identify a release or if the CAS or LOSS documents that the release has not resulted in contamination above action levels, then a letter will be provided which concurs with the CAS's or LOSS's findings that the site is not an LPST site. Unless the CAS or LOSS attests by signature to the release investigation results, such a letter will not be issued. The reported information will be randomly examined by the TNRCC for accuracy. Misrepresentations will be pursued as violations of 30 TAC, Chapter 334, Section §334.11 and Subchapters I and J as appropriate. The owner and operator are required to use this form to document suspected and confirmed releases, but participation in the expedited process (use of a CAS or LOSS) is optional, but encouraged.

SUSPECTED RELEASES

There are two different situations that can be described as a suspected release. One situation is when there is an indication that a release may have occurred but there is no evidence of environmental contamination. An example of this situation is when a piping leak detector trips. The tank owner and operator must initiate an investigation to determine whether the equipment is functioning properly. If the equipment is found to be defective and no release has occurred, the owner and operator should comply with all applicable portions of 30 TAC §334.6 relating to Construction Notification and should complete repairs of the equipment. If the equipment is not faulty and it appears a release may have occurred, the tank owner and operator must report the suspected release to the TNRCC Region Office within 24 hours and must have a tightness test conducted on the tanks and piping to determine whether the system is tight. If the tests indicate that the system is tight and there is still no indication of environmental contamination, no further action is necessary. However, if the test indicates that a portion of the tank system is not tight, then the owner and operator must investigate the cause of the test failure to determine if there has been a release. If the tank and piping tests are valid, the leak must be found and the faulty part of the tank system repaired or replaced. A site check must also be conducted to evaluate the native soils and/or groundwater for evidence of a release. The site check must include sampling the native soils in places most likely to be contaminated (including the piping chase, under dispensers, and near or under the tanks) and may be conducted during repair operations or by sampling from borings installed near the potential source(s) of the release. If all likely source areas have been evaluated and contamination is not detected, complete and submit this form to both the TNRCC Office in Austin and to the local Region Office within 45 days after the first observation of the suspected release and indicate that the situation is only a suspected release. If contamination is detected, please refer to the section on Confirmed Releases.

The second type of suspected release involves an environmental impact but the source of the contamination is unknown. An example of this situation is when there is a vapor impact to a sewer line in a street intersection where there is one or more potential sources of contamination. In this situation, the owners and operators of all potential

sources will be required to conduct a tightness test and a site check to determine: 1) the tightness status of the tanks and piping, 2) if there is any contamination at their facility, and 3) whether their facility is the source of the environmental impact. If no contamination is detected, the owner and operator should submit this form to both the TNRCC Office in Austin and to the local Region Office (completing the Summary and Sections A, B, E, and G) within 45 days after the first observation of the problem to indicate that the situation was a suspected release and that contamination was not found. If contamination is detected, please refer to the section on Confirmed Releases.

This discussion is a brief description of the procedures for handling suspected releases. In order to ensure compliance, please review the applicable rules (Title 30, Texas Administrative Code §334.72-334.81) or contact the local Region Office for more information. Please also refer to the flow chart of procedures for handling suspected and confirmed releases included with this document.

CONFIRMED RELEASES

Reporting Requirements

All releases must be reported to the TNRCC. If an emergency exists, notify the TNRCC within 24 hours of discovery. If the situation is not an emergency, the release must be reported to the TNRCC within 24 hours of release confirmation (i.e., analytical results or presence of non-aqueous phase liquid).

Second Set of Confirmation Samples

In situations where the release is discovered during a tank removal-from-service activity and analytical results indicate that the contaminant levels only slightly exceed the Action Levels, then even though the site is considered an LPST site (and should be indicated as such on the *Release Determination Report* form), a site assessment may not be warranted. Instead, the RP may be allowed, with concurrence from the TNRCC Region Office, to conduct additional investigative steps by collecting verification samples prior to a site assessment. This option is available only under the following conditions:

- The tank removal from service activities have just been completed and the tankhold and piping chases have not been filled. The second set of samples must be collected immediately after the results of the initial sampling are received when the sampling locations are easily accessible. However, the tankhold and piping chases must not be left open if they pose a safety hazard in any way;
- No more than two of the native soil samples collected for release determination purposes during a tank removal from service activity exceed action levels. This includes samples collected from the piping chases and from under the dispenser islands as well as samples from the tankhold;
- Verification samples are collected at a location a maximum of five feet vertically (or horizontally if only lateral migration has occurred) from the initial sampling points;
- Groundwater is not present in the excavation;
- Groundwater or surface water is not impacted or threatened;
- There is no indication that the release poses a threat to the public, and the extent (degree of spreading) of the contaminant is minimal;
- Non-aqueous phase liquid (NAPL) is not present in the excavation;
- The tank removal was not initiated in response to a documented impact to a sensitive receptor (water supply well, subsurface utility, spring, etc); and
- The case is not an apparent Priority 1, 2 or 3 (1.1 through 3.5);

If all the above conditions are met and the results of this second confirmation sampling indicates contaminant levels below action levels, the site may be closed.

Action Levels

The following information provides guidance for determining when to consider a confirmed release as a Leaking Petroleum Storage Tank (LPST) site. The term **RELEASE** is defined in 30 TAC §334.2 as "any spilling including overfills, leaking, emitting, discharging, escaping, leaching, or disposing from an underground storage tank into groundwater, surface water, or subsurface soils." Therefore, any amount of contamination (as determined by quantitative analytical results on soil or water samples or by the presence of non-aqueous phase liquid (NAPL)) is considered a release and must be reported within 24 hours of confirmation. However, the presence of contamination does not necessarily mean that action is necessary. To determine the need for additional corrective action (which includes assessment and/or remediation), compare the contaminant levels to the listed Action Levels. The term **ACTION LEVEL** indicates the concentration of constituents in the native soil or water at which some level of corrective action will be required. **These action levels should not be used as cleanup levels**; they are simply levels which signal LPST site determination and the need for additional site evaluation. In general, with the exception of the situation of NAPL in the tankhold, constituent levels in native soils and groundwater must exceed any of the listed action levels to be considered an LPST site. Based on actual site conditions, professional judgement should be used to determine the appropriate application of these levels.

When documentation of analytical results (utilizing the analytical methods specified in the pamphlet entitled *Soil and Groundwater Sampling and Analysis* (RG-14)) obtained from tank removal-from-service documentation or release determination information indicates that the constituent levels in the native soils and/or water exceed any of the action levels, then the site will be considered an LPST case and an LPST ID number will be assigned. There may be some situations where the benzene, ethylbenzene, toluene, and xylenes (BTEX) components are below the action levels and only the Total Petroleum Hydrocarbon (TPH) level exceeds the TPH screening level. In that case, the sample with the highest TPH level should be analyzed for Polynuclear Aromatic Hydrocarbons (PAH) as listed below (remember that PAH analyses have a 14-day holding time). The results should then be compared to the action levels. If the PAH levels (and the BTEX concentrations) do not exceed the action levels, the site will not be considered an LPST site.

Complete and submit this form within 20 days from the date of release confirmation. Typically the next step will be to conduct a Risk-Based Assessment to determine the degree of contamination present, unless a second set of confirmation samples confirmed limited migration of contaminants. A proposal for a risk-based assessment (or other appropriate activities) should be submitted with this form.

ACTION LEVELS AND SCREENING LEVELS

CONSTITUENTS	SOIL ACTION LEVELS (mg/kg)		GROUNDWATER ACTION LEVELS (mg/l)
	Fine-Grained Soil*	Coarse-Grained Soil*	
Benzene	0.50	0.50	0.005
Ethylbenzene	70	10	0.70
Toluene	100	20	1.0
Total Xylenes	560	70	10
Acenaphthene	314	314	.010
Anthracene	13	13	.010
Benzo(a)anthracene	.877	.877	.010
Benzo(b)fluoranthene	.877	.877	.010

ACTION LEVELS AND SCREENING LEVELS			
Benzo(k)fluoranthene	8.77	8.77	.010
Benzo(a)pyrene	.0877	.0877	.010
Chrysene	7.2	7.2	.010
Dibenz(a,h)anthracene	.0877	.0877	.010
Fluoranthene	156	156	.010
Fluorene	247	247	.010
Indeno(1,2,3-cd)pyrene	.877	.877	.010
Naphthalene	389	389	.010
Pyrene	99	99	.010
SCREENING LEVELS			
Total Petroleum Hydrocarbons (TPH) for Middle Distillate Releases**	500	500	5
Total Petroleum Hydrocarbons (TPH) for Gasoline Releases**	100	100	5

* Apply the fine-grained soil standard to sites dominated with clays and silts. Apply the coarse-grained soil standards to sites dominated with sands, gravels, and rock units.

** Apply the middle distillate TPH standard to diesel, kerosene, jet fuel, hydraulic oil, and waste oil releases. Apply the gasoline standard to gasoline and aviation gasoline releases. At sites where both gasoline and middle distillate releases have occurred in the same area or tank hold, the gasoline standard will apply.

The listed action levels do not apply when:

- surface water is known or suspected to be impacted by the release;
- a water well or surface water intake is impacted or threatened;
- buildings or utilities are impacted with vapors;
- there are nuisance conditions such as odors, or discoloration or taste degradation to water supplies; or
- NAPL is present, either in the tankhold or in the native soil or groundwater.

In any such instances, the site should be listed as an LPST site.

PRIORITIZATION

For LPST sites, please review the risk-based prioritization system which starts on page 13. Based on the results of the release investigation and field observations, check any listed scenarios which are reasonably believed to be relevant to the site. Because a receptor survey is not needed to complete this form at this time, this is only for establishing a tentative priority. The actual priority will typically be determined following the completion of a receptor survey or subsequent site assessment.

PREAPPROVAL OF CORRECTIVE ACTION ACTIVITIES

Written approval from the TNRCC is required for all corrective action activities prior to initiation, with the exception of initial emergency abatement measures for the first 48 hours and NAPL recovery, in order for the reimbursement claims for those activities to be processed in the order received. Claims submitted for activities which have not been preapproved will be processed only after **all** claims for preapproved activities have been

processed and paid. A registered CAS and PM must submit the proposal which includes a work plan with a detailed description of technical tasks and cost proposal form(s). The format for the proposal is specified in the pamphlet entitled *Preapproval for Corrective Action Activities* (RG-111). For more information, please refer to the rules regarding reimbursement in 30 TAC §334.301-334.322.

CORRECTIVE ACTION SPECIALISTS AND PROJECT MANAGERS

The TNRCC requires that the services of a TNRCC-registered CAS and PM be employed to conduct corrective action services as outlined in Title 30, TAC, Section 334, Subchapter J. These corrective action services include all activities associated with site assessments, performance of risk evaluations, groundwater monitoring and remediation activities at sites at which a release has been confirmed. Corrective action services do not include activities associated with tank removals or repairs or with release determination activities. However, to take advantage of the expedited process and receive the letter concurring with the recommendations that the site is not an LPST site, the attached form must be signed by a LOSS, or CAS and PM as appropriate.

PRESENCE OF NON-AQUEOUS PHASE LIQUID

If assessment activities reveal the presence of any non-aqueous phase liquid (NAPL), then you are required, pursuant to 30 TAC 334.79, to immediately implement a recovery program which effectively removes the product from all impacted monitor wells, the tankhold, the piping chase, etc., to the maximum extent practicable and to notify this Office immediately. Daily observations should be made and appropriate action pursued to ensure that all NAPL is continuously removed.

OFF-SITE MIGRATION OF CONTAMINATION

Pursuant to 30 TAC Section 334.82(b), the owner and operator are required to notify all parties affected by the contamination. If contamination from the release has migrated off-site, or if the TNRCC requires further assessment or other corrective actions off-site, then the owner and operator are required to notify the affected landowner(s) within 30 days of documenting the impact. Please note that landowners may include the owner of the land on which the tanks are located and state and local owners of right-of-way properties. For the purpose of this requirement, notice shall be through any means described in §334.82(a). Please provide documentation that the affected landowner(s) has/have been notified within 30 days of the date notification is provided. **Please note that failure to notify affected parties as required herein is grounds for formal enforcement proceedings.**

RELEASE DETERMINATION REPORT FORM

Owners and operators must report releases by phone to the appropriate TNRCC Region Office within 24 hours of confirmation. The owner and operator should use this form to comply with the reporting requirements in Title 30, Texas Administrative Code §334.77(b). Submit the completed form within 20 days after release confirmation. EXCEPT IN EMERGENCIES, THE TNRCC WILL INITIATE ACTION ON THIS CASE ONLY WHEN THE COMPLETED FORM (pages 6 through 15) IS SUBMITTED WITH ATTACHMENTS TO BOTH THE APPROPRIATE TNRCC REGIONAL OFFICE AND TO THE CENTRAL OFFICE IN AUSTIN (PST Division, MC 137, P.O. Box 13087, Austin, Texas 78711-3087). **DO NOT MODIFY THIS FORM IN ANY WAY. Complete all applicable blanks.** Incomplete forms will be returned without review. All proposals for the next appropriate corrective action activity must be submitted by a CAS and PM in the format outlined in the guidance document entitled *Preapproval for Corrective Action Activities* (RG-111).

SUMMARY

Based on the information obtained during this release determination and by comparing the contaminant levels to the stated action levels, check **one** of these four items as appropriate:

☐ This was a suspected release. No contamination was detected due to this suspected release.

☐ This site is an LPST site. Contaminant levels exceed action levels (or one of the other criteria applies).

☒ This site is **not** an LPST site. Contaminant levels do not exceed action levels (and none of the other criteria applies).

☐ This site is **not** an LPST site. No contamination was detected (and none of the other criteria applies).

IF THIS SITE IS AN LPST SITE, COMPLETE THE REMAINDER OF THIS FORM (except Section B). If this site is not an LPST site, stop here and complete Sections A, C, and G (and Section B if applicable) of the attached form.

☐ Check here if this site is an existing LPST case and this Release Determination Report is being submitted only as the tank removal-from-service documentation.

Answer the following questions in this Summary Section if this is an LPST case and if the CAS and PM sign the form in Section G. This section is to be completed by a CAS and PM only. If the form is completed by someone other than a CAS and PM, leave the rest of this Summary Section blank and go to Section A.

Is this case eligible for reimbursement of necessary corrective actions? ☐ **YES** ☐ **NO** If not, appropriate corrective action in accordance with applicable rules and guidance may continue without specific direction or approval from the PST Division, however, coordination with the PST Division is recommended. If the site is eligible for reimbursement, all corrective action activities, with the exception of NAPL recovery and emergency abatement activities, must be preapproved prior to initiation.

The next appropriate step for this site, if it is an LPST site, is (check one only):

☐ **Case closure** — If checked, attach *Site Closure Request Form* (TNRCC-0028). Please be sure the site meets all requirements for closure prior to submitting the *Site Closure Request Form*. Are there costs associated with case closure? ☐ **YES** ☐ **NO** If YES, and if the site is eligible for reimbursement, attach a cost proposal and workplan with the *Site Closure Request Form*.

☐ **Risk-Based Assessment** — The risk-based assessment is needed only when the existing assessment data is not an adequate basis for site closure. Please critically evaluate the need for additional assessment before selecting this option. Refer to pamphlet RG-175 for guidance on conducting the risk-based assessment.

Attach a detailed workplan and proposal if the site is eligible for reimbursement. A proposal must be submitted with this form if the RP is financially able to undertake necessary corrective actions.

☐ **Corrective action other than risk-based assessment** — Attach a detailed workplan and proposal if the site is eligible for reimbursement and the RP is financially able to undertake necessary corrective actions.

Is the responsible party financially able to complete the next appropriate step? ☐ **YES** ☐ **NO** If Yes, attach proposal as specified above. If No, contact the PST Division at 512/239-2200 to request information on the State-Lead option. Financial ability determination forms must be completed and submitted to document that the RP is financially unable to continue necessary corrective actions.

A. GENERAL INFORMATION

LPST ID No.: N/A (If known) TNRCC Region: 4 Priority: 4.2 (see pages 13-15)

Facility ID No.: 0009696 Required unless one of the following applies.

☐ Check here if tank registration is not required for this site (per 30 TAC §334.7), **and** check one of the following as applicable:

- ☐ the tank(s) are partially excluded or exempted from jurisdiction under 30 TAC Chapter 334. Specify type or usage of tank(s): _____
- ☐ the tank(s) were permanently removed from the ground before May 8, 1986 (provide date of removal _____);
- ☐ the tank(s) remained in the ground but were emptied, cleaned, and filled with inert substance before January 1, 1974 (provide date of activities: _____);
- ☐ the tank(s) were out of operation, their existence was unknown, and they were permanently removed from service within 60 days of their discovery (provide date of discovery: _____. Describe method of discovery: _____ _____)

Prior to this investigation, was this site ever an LPST site? ☐ **YES** or ☒ **NO** If yes, provide LPST ID number: _____

Tank Owner: U S. Air Force, Air Force Center for Environmental Excellence

Tank Owner Mailing Address: 3207 North Road, Brooks Air Force Base, Texas 73235

Tank Owner City: Brooks Air Force Base State: TX Zip: 73235

Tank Owner Contact Person: Joseph Dunkle Phone 210/536-5290 Fax no.: 210/536-9026

Tank Operator (if different from tank owner): U.S. Air Force

Tank Operator Mailing Address: Same as above

Tank Operator City: _____ State: _____ Zip _____

Tank Operator Contact Person: _____ Phone: _____ Fax no.: _____

Land Owner (if different from tank owner and operator): U.S. Air Force

Land Owner Mailing Address: Same as above

Land Owner City: _____ State: _____ Zip: _____

Land Owner Contact Person. _____ Phone: _____ Fax no.: _____

If this site is an LPST site, which of these parties will oversee the corrective actions at this site?

☒ **Tank Owner** ☐ **Tank Operator** ☐ **Land Owner**

☐ Other (not the contractor or consultant): Name: _____

Address: _____

City: _____ State: _____ Zip: _____ Contact person: _____

Phone: _____ Fax: _____

A representative of the party overseeing the corrective action must sign this form in Section G. Please note that no matter which party conducts corrective action, the tank owner and the tank operator are jointly responsible for the necessary corrective actions

Facility Name: Building 1518, Naval Air Station Fort Worth Joint Reserve Base

Facility Physical Address: Building 1518

Facility City: NAS Fort Worth JRB County: Tarrant County Code (see p 16): 220

A. GENERAL INFORMATION

INDICATE TYPE OF RELEASE: (check one) ☐ Suspected ☒ Confirmed but below action levels (not an LPST site)
☐ Confirmed and above action levels (LPST site) ☐ No evidence of contamination (all results below detection limits)
Please refer to flowchart and Title 30 Texas Administrative Code, §334 71 - 334.77 for descriptions and procedures for suspected and confirmed releases.

Were copies of this **COMPLETED** form (excluding pages 1 through 5) **AND APPROPRIATE ATTACHMENTS**, including a proposal (if RP is financially able), sent to **both** the TNRCC Central Office and to the Region Office? ☒ **YES** ☐ **NO** (IF THE FORM IS NOT COMPLETE, THIS DOCUMENT WILL BE RETURNED WITHOUT REVIEW).

Indicate number of tanks currently and formerly located at this site (attach pages as necessary):

	Type (UST/AST)	Product Type	Size (approx. gal)	Date Removed from Service
Current:	N/A			
Former:	UST	Waste Oil	600 gal	3/21/96

B. SUSPECTED RELEASE INFORMATION

Complete only this section and sections E through G as appropriate when the situation of a suspected release has occurred and it was documented that a release had not occurred.

Date suspected release discovered: 3/21/96 Reason release suspected: Visual staining and/or odor observed during tank removal.

Date suspected release reported to TNRCC: Unknown Reported to: Unknown

Possible source(s) of release: (check all that apply) Tanks: ☐ USTs ☐ ASTs ☐ Piping ☐ Overfills/spills ☒ Unknown
☐ Other:

Type of substance(s) suspected released: (check all that apply) ☐ Gasoline ☐ Diesel ☒ Used Oil ☐ Aviation Gasoline
☐ Jet Fuel (type:) ☐ Alcohol-blended fuel (Type and percentage of alcohol:)
☐ Other: (be specific)

Were UST/AST system tank and/or line tightness tests performed? ☐ **YES** or ☒ **NO** (check one) If yes, attach test data and results.
Did the tests indicate that all tanks and piping were tight? ☐ **YES** or ☐ **NO** (check one) If No, specify the portion of the tank system(s) that were found not to be tight:

Were any repairs conducted on the tank system(s)? ☐ **YES** or ☒ **NO** (check one) If yes, describe type(s) and location of repairs:

Were tightness tests performed after repairs were conducted? ☐ **YES** or ☒ **NO** (check one) If yes, attach test data and results.
Did the tests indicate that the repaired items were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight:

Were any soil confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, were all potential source areas investigated? ☒ **YES** or ☐ **NO** If samples were collected, attach descriptions of sample locations, collection methods, and laboratory results.

Were any groundwater confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, were all potential source areas investigated? ☒ **YES** or ☐ **NO** If samples were collected, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results. (Groundwater sampling is not required at this point unless there is reasonable suspicion of impact.)

C. CONFIRMED RELEASE INFORMATION
Complete this section only if a release was confirmed.

Date release confirmed: 3/21/96 Date release reported to TNRCC: Unknown Reported to: Unknown

Is this the first release from a UST or AST discovered at this site? ☐ **YES** ☒ **NO**

Is there any other contamination or potential impacts to human health from any source other than the tank systems at this site?
☒ **YES** ☐ **NO** If yes, indicate type and location of contamination: Groundwater contamination associated with LPST 104524 was located at the same site. Unleaded gasoline is the primary source of contamination from the LPST.

Reported to TNRCC by: Unknown Representing: _____

Method of release discovery:

- ☒ Samples collected during tank removal-from-service activities
- ☐ Samples collected during other tank system construction activities
- ☐ Samples collected during release determination investigation
- ☐ Other: _____
- ☐ Impact to utility line
- ☐ Impact to surface water
- ☐ Impact to water well

Method of release confirmation: (check all that apply)
☒ Soil samples ☒ Groundwater samples ☐ Surface water samples ☐ Documentation of presence of NAPL

Source(s) of release: (check all that apply) Tanks: ☐ USTs ☐ ASTs ☐ Piping ☐ Overfills/spills ☒ Unknown
☐ Other: _____

Substance(s) released: (check all that apply) ☐ Gasoline ☐ Diesel ☒ Used Oil ☐ Aviation Gasoline
☐ Alcohol-blended fuel (Type and percentage of alcohol: _____)
☐ Jet Fuel (type: _____) ☐ Other: (be specific) _____
Amount of product released: _____ Chemical Abstract Service registry #: _____ (for hazardous substances)

Were any soil confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, attach descriptions of sample locations, collection methods and laboratory results.

Type of native soil: (check one) ☒ Clay or silt ☐ Sand, gravel or rock

Were any groundwater confirmation samples collected? ☒ **YES** or ☐ **NO** (check one) If yes, attach descriptions of sample locations, collection methods, aquifer name, and laboratory results.

Known Impact(s): (check all that apply) ☐ Soil ☐ GW ☐ Surface Water ☐ Subsurface Utilities - type: _____
☐ Buildings ☐ Water wells ☐ Other sensitive receptors: No known impacts

Was the land owner (if different from the tank owner) notified of the contamination? ☒ **YES** or ☐ **NO** (check one) If Yes, attach copy of the letter which provided the notification. If No, documentation that notification was provided must be submitted within 30 days from the date the impact is discovered. Notification via report submitted by Jacobs Engineering (March, 1997).

Possibly Threatened. (check all that apply) ☐ GW ☐ Surface Water ☐ Subsurface Utilities - type: _____
☐ Buildings ☐ Water wells ☐ Other sensitive receptors: None

Was NAPL detected (greater than 0.01 feet)? ☐ **YES** or ☒ **NO** (check one) If yes, describe how and where it was detected, the thickness detected, and the recovery actions taken: _____

D. ABATEMENT MEASURES

Were abatement measures initiated to stop the release or to recover the released substance? ☐ **YES** or ☐ **NO** (check one) If yes, describe the abatement and/or recovery measures taken and the dates and duration of the activities: _____

Were UST/AST system tank and/or line tightness tests performed? ☐ **YES** or ☐ **NO** (check one) If yes, attach test results.
Did the tests indicate that all tanks and piping were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight: _____

Were any repairs conducted on the tank system(s)? ☐ **YES** or ☐ **NO** (check one) If yes, describe type(s) and location of repairs: _____

Were tightness tests performed after repairs were conducted? ☐ **YES** or ☐ **NO** (check one) If yes, attach test results.
Did the tests indicate that the repaired items were tight? ☐ **YES** or ☐ **NO** If No, specify the portion of the tank system(s) that were found not to be tight: _____

E. FIRE/OTHER OFFICIALS

Were any other officials notified? ☐ **YES** ☐ **NO** (check one) If Yes, indicate:

Name	Representing	Phone number	Date(s) Notified

Were any directives issued by the fire or other officials? ☐ **YES** ☐ **NO** If Yes, describe directives and actions taken in response to the directive: _____

F. WASTE DISPOSITION

Indicate the status of all wastes and other materials generated:

Type of waste (soil, water, product)	Quantity	Current location	Method and location of disposal or treatment

G. REPORT PREPARATION

A Licensed On-Site Supervisor may complete and sign this form when the supervisor is acting in an approved capacity for tank removal-from-service or tank system repair activities.

Licensed On-Site Supervisor: _____ ILP Reg. No.: _____ Exp. Date: _____

Company: _____

Telephone No.: _____ FAX No.: _____

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas. I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties

Signature: _____ Date: _____

OR

Project Manager: Brad Nielsen PM Reg. No.: CAPM01291 Exp. Date: 2/10/2000

Company: HydroGeoLogic, Inc.

Telephone No.: 512/336-1170 FAX No.: 512/336-0178

Based on the results of the site investigation and the additional information presented herein, I certify that the site investigation activities performed either by me, or under my direct supervision, including subcontracted work, were conducted in accordance with accepted industry standards/practices and further, that all such tasks were conducted in compliance with applicable TNRCC published rules, guidelines and the laws of the State of Texas. I have reviewed the information included within this report, and consider it to be complete, accurate and representative of the conditions discovered during the site investigation. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

PM Signature: [signature] Date: 5/28/99

AND

CAS Representative: Miquette E Rochford, P.G. CAS Reg No.: RCAS00700 Exp. Date: 6/11/2000

Company: HydroGeoLogic, Inc.

Telephone No.: 703/478-5186 FAX No.: 703/471-4180

By my signature affixed below, I certify that I am the duly authorized representative of the Correction Action Specialist named and that I have personally reviewed the site investigation results and other relevant information presented herein and considered them to be in accordance with accepted standards/practices and in compliance with the applicable TNRCC published rules, guidelines and the laws of the State of Texas. Further, that the information presented herein is considered complete, accurate and representative of the conditions discovered during the site investigation I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report, I may be subject to administrative, civil, and/or criminal penalties.

Signature of CAS Representative: Miquette E. Rochford Date: 5/27/99

If the CAS or On-Site Supervisor does not complete and sign this form, provide the following information on the person who has prepared the form:

Name: N/A Company: _____

Telephone No.: _____ FAX No.: _____

Signature: _____ Date: _____

Name of Tank Owner or Operator contact: Joseph Dunkle, HQ-AFCEE/ERD

Telephone No.: 210/536-5290 FAX No.: 210/536-9026

By my signature affixed below, I certify that I have reviewed this report for accuracy and completeness of information regarding points of contact and the facility and storage tank system history and status. I acknowledge that if I intentionally or knowingly make false statements, representations, or certifications in this report related to the contact information, and the facility and storage tank system history and status information, I may be subject to administrative, civil, and/or criminal penalties. I attest that I have reviewed this report for accuracy and completeness. I understand that I am responsible for addressing this matter.

Signature: [signature] Date: 6/1/99

ATTACHMENTS:

The following information must be submitted with this document:

- Copy of letter notifying land owners of the existence of contamination (if applicable);
- Site diagram with location of the tank system(s), suspected or known point of release(s), and all sampling points;
- If borings were drilled, copies of the boring logs;
- Copies of the State of Texas Well Reports (form no. TNRCC-0199) for any installed monitor wells;
- List of analytical results and sample identification for all soil and water samples collected;
- Descriptions of sample collection and handling methods;
- Copies of signed laboratory reports and chain-of-custody documentation;
- Copies of most recent tank system tightness tests, if performed;
- Documentation of any tank system repairs or replacements; and
- Waste disposal, treatment, or recycling or reuse documentation, including manifests and signed receipts from the receiving facility for any wastes already generated.

Also include the following attachments (in addition to the applicable items listed above) if this form serves as the documentation as required by 30 TAC 334.55 for a tank removal-from-service:

- A written description of the tanks and/or piping at the time of their removal;
- A written description of the removal, transportation, and disposition of the tank(s), all substances removed from the tank, all contaminated soils and water, and all other associated wastes;
- A copy of the original Construction Notification form which was filed for the removal activity;
- The TNRCC Central Office tracking number for the removal activity. If unknown, then provide a copy of the TNRCC letter which acknowledged receipt of the original Construction Notification form;
- A copy of the amended TNRCC UST Registration form (form no. TNRCC-0724), signed by the owner or the owner's representative, showing the date the tank(s) was/were removed from the ground. **Submit the original registration form to the PST Division's Registration Section at the address listed on the form.** Submit a **copy** of the form with this document.
- A site map (drawn to scale) which portrays the following: the locations and types of USTs formerly in place; the locations of the former product lines and dispenser; the locations (with designation numbers) of all samples collected during the UST removal process; the final limits of excavation; a North arrow; and a legend and bar scale.
- The inclusion of photographs can be helpful when describing tank and/or piping conditions or the removal process. If photos are provided, they should be glued or taped to a letter-sized sheet of paper with a description of the view typed or printed beneath each photo.

LPST CASE PRIORITIZATION

The actions listed for each priority serve as a guide to assist the tank owner and operator in determining appropriate actions based on site conditions. Preapproval for corrective action activities should be obtained for sites eligible for reimbursement. Please refer to the applicable rules in Title 30, Texas Administrative Code, §334.72-334.81 and other TNRCC guidance for more detailed information.

PRIORITY 1 SITES

Is NAPL (free product) present? ☐ **yes** ☐ **no** Utilize all known information on site soils, vapors, groundwater, surface water, and other impacts and mark all boxes which match site conditions The lowest value is the site priority If the answers to any statements are unknown, additional assessment, usually in the form of a Risk-Based Assessment (RBA), should be completed

	PRIORITY	ACTIONS
☐ 1 1	Explosive levels, or concentrations of vapors that could cause acute health effects are present in a residence or other building (If yes, ensure the local fire authority or State Fire Marshal (512/918-7100) and the local TNRCC Region Office have been notified.)	**Emergency Actions.** Notify appropriate authorities, property owners, and potentially affected parties. Mitigate vapor impact **Additional Actions**· Conduct receptor survey Conduct assessment of contaminant plumes Determine target cleanup levels Conduct remediation as necessary.
☐ 1 2	An active public water supply well, public water supply line, or public surface water intake is impacted or immediately threatened by the release. (If yes, ensure the public authority and the local TNRCC Region Office have been notified.)	**Emergency Actions:** Notify appropriate authorities, well users, and property owners Prevent further migration Mitigate impact. Discontinue use of water supply **Additional Actions:** Provide alternative water source* Conduct receptor survey Conduct assessment of contaminant plumes in relation to water supply impact. Determine target cleanup levels Conduct remediation as necessary.
☐ 1.3	A sole-source domestic water supply well or line, or sole-source domestic surface water intake is impacted or immediately threatened by the release (Ensure the well user or surface water user and the local TNRCC Region Office have been notified)	**Emergency Actions:** Notify appropriate authorities, well users, and property owners Prevent further migration. Mitigate impact. Discontinue use of water supply **Additional Actions:** Provide alternative water source* Conduct receptor survey Conduct assessment of contaminant plumes in relation to water supply impact Determine target cleanup levels. Conduct remediation as necessary.
☐ 1 4	Explosive vapors are present in a subsurface utility system, but no building or residence is impacted (Ensure the utility authority and the local TNRCC Region Office have been notified)	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties. Mitigate vapor impact. **Additional Actions:** Conduct receptor survey. Conduct assessment of contaminant plumes. Determine target cleanup levels. Conduct remediation as necessary.
☐ 1 5	NAPL is present at the ground surface, on surface water bodies, surface water runoff, or in utilities other than water supply lines. (Ensure the utility authority is notified if utilities are affected Ensure free product removal actions are implemented as required pursuant to 30 TAC 334.79)	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties Secure area. **Additional Actions:** Conduct free product removal activities Prevent migration of free product Conduct assessment in relation to impact. Conduct receptor survey. Determine target cleanup levels Conduct remediation as necessary.
☐ 1.6	The Edwards aquifer, recharge zone or transition zone is impacted.	**Emergency Actions:** Recover free product if present. **Additional Actions:** Initiate assessment activities. Conduct assessment in relation to impact. Conduct receptor survey. Determine target cleanup levels. Conduct remediation as necessary. Determine if free product is present and, if so, conduct free product removal activities
☐ 1.7	Ambient outdoor vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.	**Emergency Actions:** Notify appropriate authorities, property owners, and affected parties. Mitigate immediate impacts **Additional Actions:** Conduct sufficient assessment to determine exposure pathways, receptor types and locations, and target cleanup goals Determine if free product is present and, if so, conduct free product removal activities

*Reimbursement for provision of alternative water supply is contingent upon 30 TAC 334.308 (c)(3).

PRIORITY 2 SITES

	PRIORITY	ACTIONS
☐ 2.1	Soils or water contaminated by the release are exposed and unsecured from public access and dwellings, playgrounds, parks, day care centers, schools, or similar use facilities are located within 500 feet of those soils.	Remove, cover, or otherwise secure exposed soils or water. Fill open excavations. Conduct actions necessary to contain contamination or prevent impact or exposure
☐ 2 2	A former vapor impact is associated with this site, or free product is present in close proximity to subsurface utilities or other natural or man-made conduit and there is potential for the accumulation of explosive vapors or vapors that could cause acute effects in a building or other structure.	Remediate/remove vapors, free product, or contaminated soils. Determine migration pathways and remove/prevent migration pathways. Conduct assessment of contaminant plumes in relation to the potential vapor pathway Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure
☐ 2.3	A domestic water supply well or line, or a domestic surface water intake is impacted or immediately threatened by the release, but the user has access to another public or private water supply. (Ensure the user and the local TNRCC Region Office have been notified.)	Notify proper authorities, users, and property owners. Prevent migration to water intake. Provide alternative water supply if necessary. Conduct assessment to identify contaminant plumes and exposure pathways in relation to water intake. Determine appropriate target cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure.
☐ 2 4	A non-public or non-domestic water supply well is impacted or immediately threatened. (Do not consider monitor wells.) (Ensure the user and the local TNRCC Region Office have been notified)	Notify proper authorities, well users, and property owners. Prevent migration to water well. Provide alternative water supply if necessary Plug water well if necessary. Conduct assessment to identify contaminant plumes and exposure pathways in relation to water well Determine appropriate target cleanup goals based on site conditions. Conduct actions necessary to contain contamination or prevent impact or exposure
☐ 2 5[1]	Groundwater is impacted and a public or domestic water supply well is located within 0.25 miles of the UST/AST system or source area. (Answer yes if a well is present, but the well use is unknown). **(See footnote 1 before responding.)**	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done) Evaluate well impact potential Determine appropriate cleanup goals based on site conditions Conduct actions necessary to contain contamination or prevent impact or exposure.
☐ 2 6	Groundwater or storm water runoff is impacted and discharges within 500 feet of the known extent of contamination to a surface water body used for human drinking water, contact recreation, habitat to a protected or listed endangered plant and animal species	Conduct assessment which addresses the contaminant plumes in relation to the surface water. Determine target cleanup levels. Conduct actions necessary to contain contamination or prevent impact or exposure Notify property owners if impact is documented.
☐ 2.7	A public or domestic water supply well that produces from a groundwater zone which is not impacted or threatened is located within the known extent of contamination. (Answer yes if a well is present, but the well use is unknown)	Notify well users and property owners. Determine completion data and usage of water well(s) Conduct receptor survey to locate additional sensitive receptors. Investigate well impact or cross-contamination potential. Plug well(s) if necessary. Determine target cleanup levels Conduct actions necessary to contain contamination or prevent impact or exposure. Monitor water well for groundwater quality.

PRIORITY 3 SITES

	PRIORITY	ACTIONS
☐ 3.1[1]	Groundwater is impacted and a public or domestic water supply well is located between 0 25 and 0.5 miles from the UST/AST system or source area (Answer yes if a well is present in this interval, but the well use is unknown) (**See footnote 1 before responding**)	Determine completion data and usage of well(s) if not already known Conduct receptor survey to locate additional wells and other potential receptors (if not already done) Evaluate well impact potential. Evaluate need for remediation.
☐ 3.2	Groundwater is impacted and the impacted groundwater zone may discharge between 500 feet and 0.25 miles of the UST/AST or source area to a surface water body used for human drinking water, contact recreation, or habitat to a protected or listed endangered plant and animal species.	Conduct assessment which evaluates potential to impact the surface water Evaluate need for remediation
☐ 3 3[1]	Groundwater is impacted and a non-public or non-domestic water supply well is located within 0.25 miles of the UST/AST system or source area (**See footnote 1 before responding.**)	Determine completion data and usage of well(s) if not already known. Conduct receptor survey to locate additional wells and other potential receptors (if not already done) Evaluate well impact potential contaminate Evaluate need for remediation
☐ 3 4	A non-community or non-domestic water supply well that produces from a groundwater zone which is not impacted or threatened is located within the known extent of contamination (If a well is present, but the use of the well is unknown, answer yes to 2 7 instead)	Notify well users and property owners. Determine completion data and usage of well(s) if not already known Conduct receptor survey to locate additional wells and other potential receptors (if not already done). Investigate well impact or cross-contamination potential Monitor water well for groundwater quality Evaluate need for remediation.
☐ 3 5[2]	A designated major or minor aquifer groundwater is impacted or immediately threatened. (**See footnote 2 before responding.**)	Conduct assessment of soil and groundwater contaminant plumes in relation to major or minor aquifer. Conduct receptor survey and water well inventory. Evaluate need for remediation.

PRIORITY 4 SITES

	PRIORITY	ACTIONS
☐ 4.0	The extent of contamination has not been defined, but there is no indication that any of the other case priority conditions apply	Conduct assessment of soil and/or groundwater contaminant plumes. Conduct receptor survey and water well inventory Evaluate site conditions to determine need for additional corrective actions.
☐ 4.1	Groundwater is affected.	Conduct assessment of soil and groundwater contaminant plumes. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.
☒ 4.2	The vertical extent of contamination has been defined and the assessment results document that groundwater is not affected.	Conduct assessment of soil contaminant plume. Conduct receptor survey and water well inventory. Evaluate site conditions to determine need for additional corrective actions.

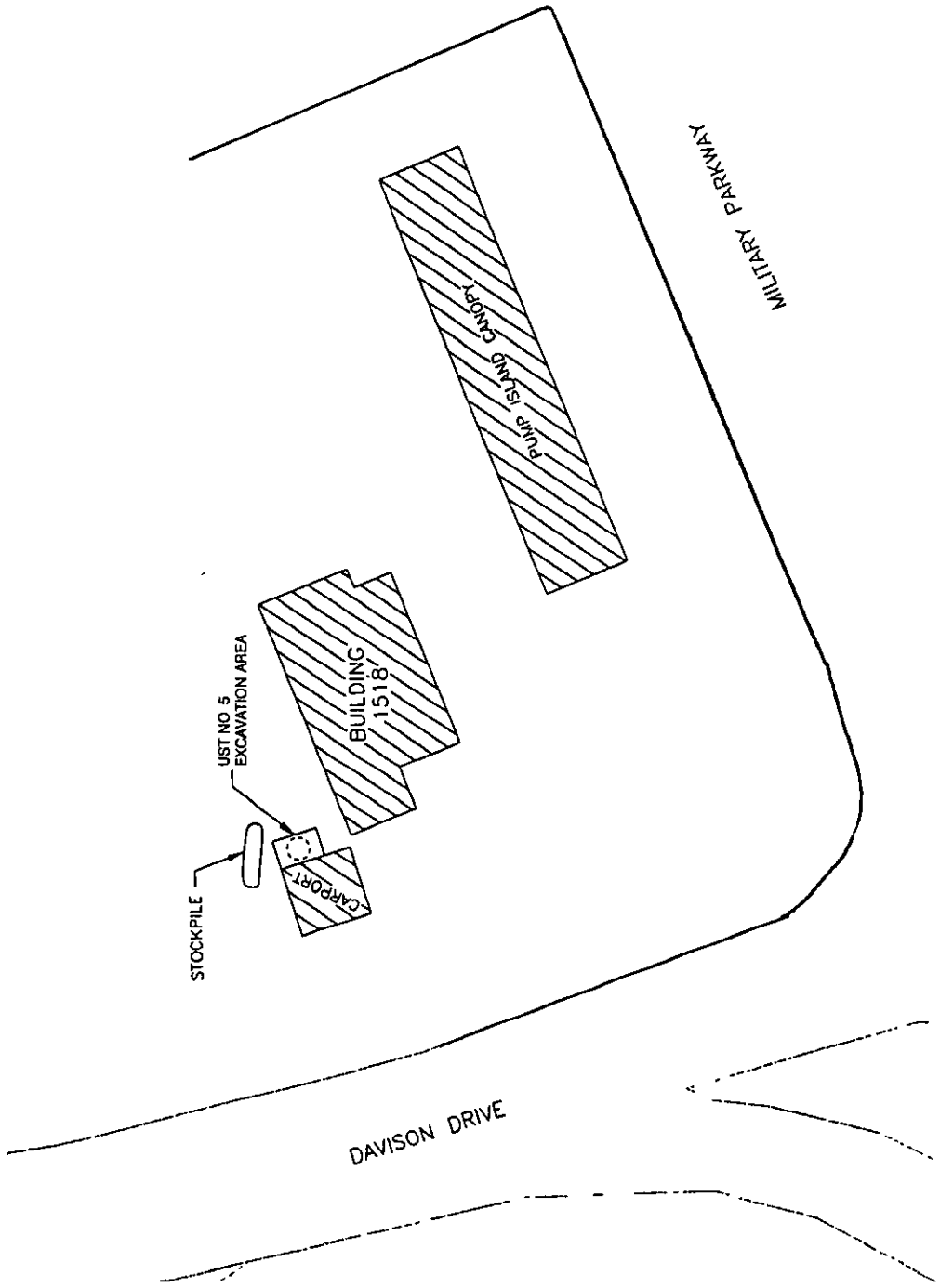
1 Consider only wells producing from the same interval as the impacted groundwater zone at the release site, wells which may provide a cross-contamination pathway, or wells where completion details are unknown

2 Refer to Major and Minor Aquifers of Texas Maps prepared by Texas Water Development Board, September 1990 Do not consider the low permeability Beaumont clays of the Beaumont Formation for the Gulf Coast aquifer Do not consider a perched groundwater zone overlaying the principal producing portion of the aquifer unless the two are hydrologically connected

COUNTY CODE LIST

1	Anderson	38	Childress	75	Fayette	112	Hopkins	149	Live Oak	186	Pecos	223	Terry
2	Andrews	39	Clay	76	Fisher	113	Houston	150	Llamb	187	Polk	224	Throckmorton
3	Angelina	40	Cochran	77	Floyd	114	Howard	151	Loving	188	Potter	225	Titus
4	Aransas	41	Coke	78	Foard	115	Hudspeth	152	Lubbock	189	Presidio	226	Tom Green
5	Archer	42	Coleman	79	Fort Bend	116	Hunt	153	Lynn	190	Rains	227	Travis
6	Armstrong	43	Collin	80	Franklin	117	Hutchinson	154	McCulloch	191	Randall	228	Trinity
7	Atascosa	44	Collingsworth	81	Freestone	118	Irion	155	McLennan	192	Reagan	229	Tyler
8	Austin	45	Colorado	82	Frio	119	Jack	156	McMullen	193	Real	230	Upshur
9	Bailey	46	Comal	83	Gaines	120	Jackson	157	Madison	194	Red River	231	Upton
10	Bandera	47	Comanche	84	Galveston	121	Jasper	158	Marion	195	Reeves	232	Uvalde
11	Bastrop	48	Concho	85	Garza	122	Jeff Davis	159	Martin	196	Refugio	233	Val Verde
12	Baylor	49	Cooke	86	Gillespie	123	Jefferson	160	Mason	197	Roberts	234	Van Zandt
13	Bee	50	Coryell	87	Glasscock	124	Jim Hogg	161	Matagorda	198	Robertson	235	Victoria
14	Bell	51	Cottle	88	Goliad	125	Jim Wells	162	Maverick	199	Rockwell	236	Walker
15	Bexar	52	Crane	89	Gonzales	126	Johnson	163	Medina	200	Runnels	237	Waller
16	Blanco	53	Crockett	90	Gray	127	Jones	164	Menard	201	Rusk	238	Ward
17	Borden	54	Crosby	91	Grayson	128	Karnes	165	Midland	202	Sabine	239	Washington
18	Bosque	55	Culberson	92	Gregg	129	Kaufman	166	Milan	203	San	240	Webb
19	Bowie	56	Dallam	93	Grimes	130	Kendall	167	Mills	204	San Jacinto	241	Wharton
20	Brazoria	57	Dallas	94	Guadalupe	131	Kenedy	168	Mitchell	205	San	242	Wheeler
21	Brazos	58	Dawson	95	Hale	132	Kent	169	Montague	206	San Saba	243	Wichita
22	Brewster	59	Deaf Smith	96	Hall	133	Kerr	170	Montgomery	207	Schleicher	244	Wilbarger
23	Briscoe	60	Delta	97	Hamilton	134	Kimble	171	Moore	208	Scurry	245	Willacy
24	Brooks	61	Denton	98	Hansford	135	King	172	Morris	209	Shackelford	246	Williamson
25	Brown	62	DeWitt	99	Hardeman	136	Kinney	173	Motley	210	Shelby	247	Wilson
26	Burleson	63	Dickens	100	Hardin	137	Kleberg	174	Nacogdoches	211	Sherman	248	Winkler
27	Burnet	64	Dimmit	101	Harris	138	Knox	175	Navarro	212	Smith	249	Wise
28	Caldwell	65	Donley	102	Harrison	139	Lamar	176	Newton	213	Somerville	250	Wood
29	Calhoun	66	Duval	103	Hartley	140	Lamb	177	Nolan	214	Starr	251	Yoakum
30	Callahan	67	Eastland	104	Haskell	141	Lampasas	178	Nueces	215	Stephens	252	Young
31	Cameron	68	Ector	105	Hays	142	La Salle	179	Ochiltree	216	Sterling	253	Zapata
32	Camp	69	Edwards	106	Hemphill	143	Lavaca	180	Oldham	217	Stonewall	254	Zavala
33	Carson	70	Ellis	107	Henderson	144	Lee	181	Orange	218	Sutton		
34	Cass	71	El Paso	108	Hidalgo	145	Leon	182	Palo Pinto	219	Swisher		
35	Castro	72	Erath	109	Hill	146	Liberty	183	Panola	220	Tarrant		
36	Chambers	73	Falls	110	Hockley	147	Limestone	184	Parker	221	Taylor		
37	Cherokee	74	Fannin	111	Hood	148	Lipscomb	185	Parmer	222	Terrell		

Attachment 1
Figures



Filename: X \AFC001\15BBF\bldg_1518 cdr
Project AFC001-15BBF
Created by: cfarmer 03/29/99
Revised 05/26/99 ap
Source: Jacobs 1997

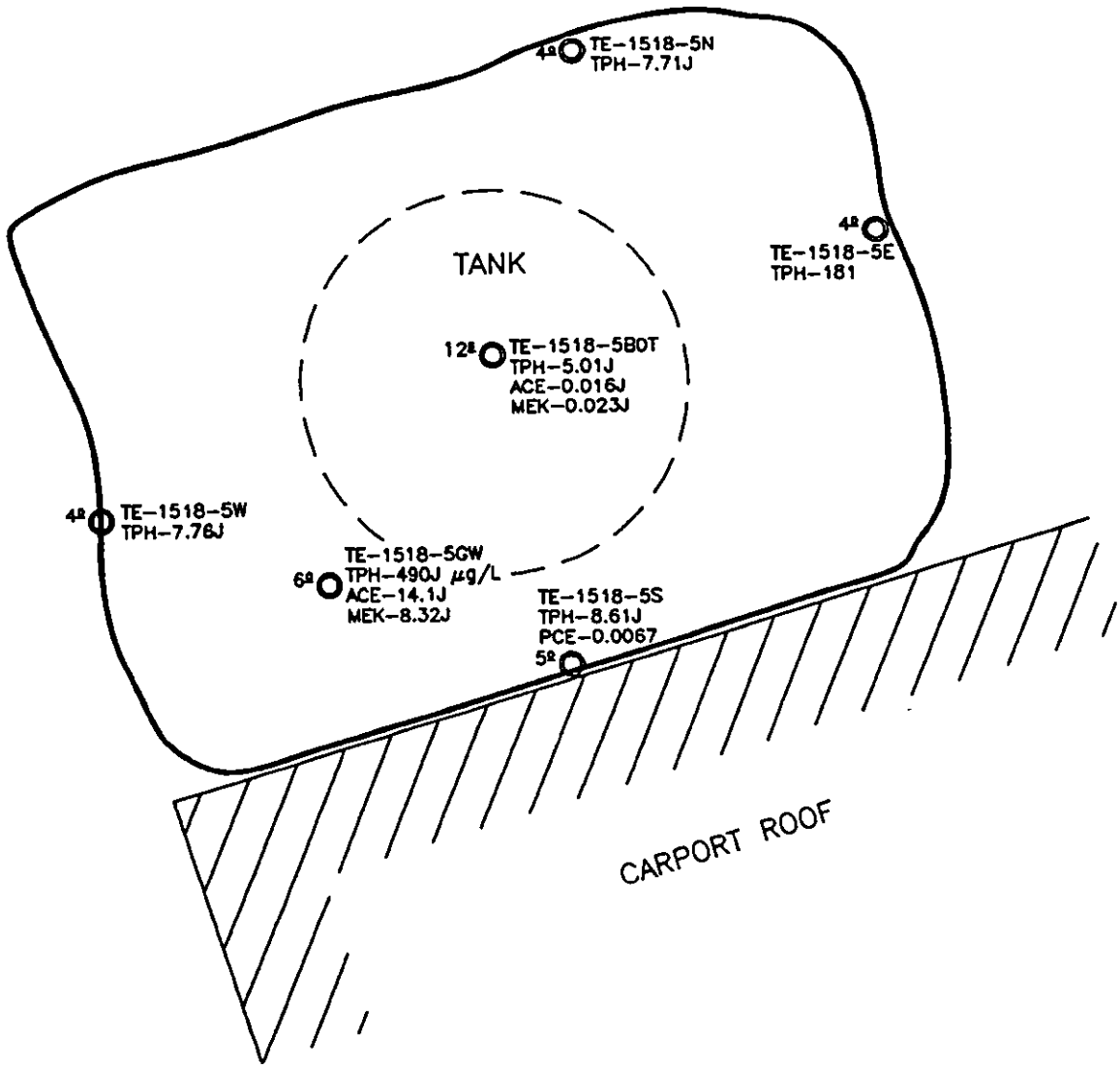
HYDRO GeoLogic

Legend

0 40 80
SCALE IN FEET

N

Figure 1
UST No. 5 at Building 1518
Tank Location
NAS Fort Worth JRB, Texas



LEGEND:

TE-1518-5N
4ft ○ SAMPLE LOCATION WITH DEPTH

TPH – TOTAL PETROLEUM HYDROCARBONS

PCE – TETRACHLOROETHYLENE

ACE – ACETONE

MEK – 2-BUTANONE

J – ESTIMATED CONCENTRATION

NOTES:
1. ALL CONCENTRATIONS ARE IN mg/kg, EXCEPT AS NOTED.
2. NON-DETECTED COMPOUNDS ARE NOT SHOWN.
3. METALS RESULTS NOT SHOWN, (SEE TABLE 6.1-1).

Filename. X:\AFC001\15BBF\bldg_1518.cdr
Project: AFC001-15BBF
Created by: cfarmer 03/29/99
Revised 05/26/99 ap
Source: Jacobs 1997

HYDRO GeoLogic

Legend

0 4 8
SCALE IN FEET

N

Figure 2
UST at Building 1518
Sampling Locations
NAS Fort Worth JRB, Texas

Attachment 2
Analytical Results

Control Number to Sample Number Cross Reference Table
Tank Excavation Analytical Results

CONTROL NO.	SAMPLE NO.
CR-A110807	TK-UPG4136-A
CR-A110907	TE-UPG-3001-1
CR-A114301	TE-1518-5STK1
CR-A114302	TE-1518-5STK1
CR-A114303	TE-1750-2STK1
CR-A114304	TE-1750-2STK1
CR-A114305	TE-1750-2STK2
CR-A114306	TE-1750-2STK2
CR-A114307	TE3-1750-2N
CR-A114308	TE3-1750-2N
CR-A114309	TE4-1518-5W
CR-A114401	TE-4102-STK1
CR-A114402	TE-4102-STK1
CR-A150001	TE-1750-2E
CR-A150002	TE-1750-2E
CR-A150003	TE-1750-2P
CR-A150004	TE-1750-2P
CR-A150005	TE-1750-2N
CR-A150006	TE-1750-2N
CR-A150007	TE-1750-2W
CR-A150008	TE-1750-2W
CR-A150101	TE-4102-E
CR-A150102	TE-4102-E
CR-A150103	TE-4102-S
CR-A150104	TE-4102-S
CR-A150105	TE-4102-W
CR-A150106	TE-4102-W
CR-A150107	TE-4102-N
CR-A150108	TE-4102-N
CR-A150201	TE-4102-BOT
CR-A150202	TE-4102-BOT
CR-A150203	TE3-4102-N
CR-A150204	TE3-4102-N
CR-A150205	TE3-4102-N
CR-A150301	TE-1411-3NE
CR-A150302	TE-1411-3NE
CR-A150303	TE-1411-3SE
CR-A150304	TE-1411-3SE
CR-A150305	TE-1411-3SW
CR-A150306	TE-1411-3SW
CR-A150307	TE-1411-3NW
CR-A150308	TE-1411-3NW
CR-A150309	TE-1411-2SE
CR-A150401	TE-1411-2SW
CR-A150402	TE-1411-2SW
CR-A150403	TE2-1411-2SW
CR-A150404	TE2-1411-2SW
CR-A150405	TE-1411-2NW
CR-A150406	TE-1411-2NW
CR-A150407	TE-1411-2NE
CR-A150408	TE-1411-2NE
CR-A150409	TE-1411-2SE
CR-A150501	TE-1411-1NE
CR-A150502	TE-1411-1NE
CR-A150503	TE2-1411-1NE
CR-A150504	TE2-1411-1NE
CR-A150505	TE-1411-1SE
CR-A150506	TE-1411-1SE
CR-A150507	TE-1411-1SW
CR-A150508	TE-1411-1SW
CR-A150509	TE4-1411-1SW
CR-A150601	TE-1518-5S
CR-A150602	TE-1518-5S
CR-A150603	TE3-1518-5W
CR-A150604	TE3-1518-5W

CONTROL NO.	SAMPLE NO.
CR-A150605	TE3-1518-5W
CR-A150606	TE3-1518-5W
CR-A150701	TE-1518-5E
CR-A150702	TE-1518-5E
CR-A150801	TE-1518-5N
CR-A150802	TE-1518-5N
CR-A150901	TE-1518-5W
CR-A150902	TE-1518-5W
CR-A150903	TE2-1518-5W
CR-A150904	TE2-1518-5W
CR-A151001	TE-4210-N
CR-A151002	TE-4210-N
CR-A151101	TE-4210-S
CR-A151102	TE-4210-S
CR-A151103	TE-4210-STK2A
CR-A151104	TE-4210-STK2A
CR-A151105	TE-4210-STK2B
CR-A151106	TE-4210-STK2B
CR-A151107	TE-4210-STK2C
CR-A151108	TE-4210-STK2C
CR-A151109	TE4-4210-E
CR-A151201	TE-4210-E
CR-A151202	TE-4210-E
CR-A151203	TE-4210-STK1A
CR-A151204	TE-4210-STK1A
CR-A151205	TE-4210-STK1B
CR-A151206	TE-4210-STK1B
CR-A151207	TE-4210-STK1C
CR-A151208	TE-4210-STK1C
CR-A151301	TE-4210-W
CR-A151302	TE-4210-W
CR-A151401	TE-4210-STK3A
CR-A151402	TE-4210-STK3A
CR-A151403	TE-4210-STK3B
CR-A151404	TE-4210-STK3B
CR-A151405	TE-4210-STK3C
CR-A151406	TE-4210-STK3C
CR-A151407	TE-4210-STK3D
CR-A151408	TE-4210-STK3D
CR-A151503	TE-4210-STK3E
CR-A151504	TE-4210-STK3E
CR-A151505	TE3-4210-E
CR-A151506	TE3-4210-E
CR-A151507	TE3-4210-E
CR-A151508	TE3-4210-E
CR-A151601	TE-4210-P1
CR-A151602	TE-4210-P1
CR-A151603	TE2-4210-P1
CR-A151604	TE2-4210-P1
CR-A151605	TE-4210-P2
CR-A151606	TE-4210-P2
CR-A151607	TE-1518-5BOT
CR-A151608	TE-1518-5BOT
CR-A151609	TE4-1518-5BOT
CR-A151701	TE-1518-5GW
CR-A151702	TE-1518-5GW
CR-A151703	TE-1518-5GW
CR-A151704	TE-1518-5GW
CR-A151705	TE3-1518-5GW
CR-A151707	TE3-1518-5GW
CR-A151708	TE3-1518-5GW
CR-A151709	TE4-1518-5GW
CR-A151801	TE-1750-2GW
CR-A151802	TE-1750-2GW
CR-A151803	TE-1750-2GW

CONTROL NO.	SAMPLE NO.
CR-A151804	TE1-1750-2GW
CR-A151805	TE3-1750-2GW
CR-A151806	TE3-1750-2GW
CR-A151807	TE3-1750-2GW
CR-A155001	TE-4210-BOT
CR-A155002	TE-4210-BOT
CR-A155003	TE-1411-1BOT
CR-A155004	TE-1411-1BOT
CR-A155005	TE-1411-3BOT
CR-A155006	TE-1411-3BOT
CR-A155007	TE-1411-2BOT
CR-A155008	TE-1411-2BOT
CR-A155101	TE-1411-1NW
CR-A155102	TE-1411-1NW
CR-A155103	TE3-1411-1NW
CR-A155104	TE3-1411-1NW
CR-A155105	TE3-1411-1NW
CR-A155106	TE3-1411-1NW
CR-A155201	TE-4102-BOT2
CR-A155202	TE-4102-BOT2
CR-A155203	TE-4102-STK2
CR-A155204	TE-4102-STK2
CR-A155301	TE-1015-FPB
CR-A155302	TE-4127-FPB
CR-A155303	TE-4143-FPB
CR-A155304	TE-4111-FP
CR-A155401	TE3-4111
CR-A155402	TE-4141-FP
CR-A155403	TE-4145-FP
CR-A155404	TE3-4145
CR-A155501	TE-4171-FP
CR-A155502	TE2-4171-FP
CR-A155503	TE-4155-FP
CR-A155504	TE-4216-FP
CR-A155601	TE-1411-STK1A
CR-A155602	TE-1411-STK1B
CR-A155603	TE-1411-STK1C
CR-A155604	TE-1411-STK1D
CR-A155605	TE-1411-STK1E
CR-A155606	TE-1411-STK1F
CR-A155607	TE-1411-3NWA
CR-A155608	TE-1411-STK2
CR-A155609	TE2-1411-STK4B
CR-A155701	TE-1411-STK4B
CR-A155702	TE-1411-STK4A
CR-A155703	TE-1411-3BOTA
CR-A155704	TE-1411-STK5
CR-A155705	TE3-1411-3BOTA
CR-A155706	TE3-1411-3BOTA
CR-A155707	TE4-1411-3BOTA
CR-A156001	TE-3001-N
CR-A156002	TE-3001-N
CR-A156003	TE-3001-S
CR-A156004	TE-3001-S
CR-A156005	TE-3001-E
CR-A156006	TE-3001-E
CR-A156007	TE-3001-W
CR-A156008	TE-3001-W
CR-A156009	TB-960502
CR-A156101	TE-3001-BOT
CR-A156102	TE-3001-BOT
CR-A156103	TE-3001-STK1
CR-A156104	TE-3001-STK2
CR-A156105	TE-3001-STK3
CR-A156106	TE-3001-STK4
CR-A156107	TE-3001-BOT

TABLE OF ABBREVIATIONS

CAL = calibration date
CL MAX = control limits, maximum
CL MIN = control limits, minimum
DL = detection limit
Lab Q = laboratory qualifier
MAX RPD = maximum relative percent difference
MDL = method detection limit
MS = matrix spike
ND = not detected
Par Q = parameter value qualifier
PQL = practical quantitation limit
PVCC = parameter value code
QC = type of sample (environmental, lab quality control, spike)
S = surrogate (true or false)
SD = spike duplicate

Certes
Environmental Laboratories, L.C.
2209 Wisconsin Street, Suite 200
Dallas, Texas 75229
214-620-7966
800-394-2872
214-620-7963 FAX

CERTES ENVIRONMENTAL LABORATORIES ANALYTICAL REPORT

CEL #. 96-0640

Project #: 10K70200

JACOBS ENGINEERING GROUP, INC.
600 Seventeenth St., Ste 1100N
Denver, CO 80202

Attn: Lynn Schuetter

Date: August 5, 1996

Included are the results for the samples submitted to Certes. All testing was performed using approved EPA Methods unless otherwise stated. All results have been reviewed and Quality Control criteria met. If you have any questions concerning the analytical data please contact Chase A. Thibodaux, Quality Assurance Manager at 214/620-7966. Thank you for the opportunity to service your environmental testing needs.

Sincerely,
Certes Environmental Laboratories, L.C.
Per:

Chase A. Thibodaux

Chase A. Thibodaux
Laboratory Manager

CLIENT: JACOBS ENGINEERING GROUP, INC.

CLIENT: JACOBS ENGINEERING GROUP, INC.

REPORT #: 96-0640

Cross Reference Table I

Field Sample ID	Laboratory ID
CR-A 150001	96-0640-01
CR-A 150002	96-0640-02
CR-A 150003	96-0640-03
CR-A 150004	96-0640-04
CR-A 150005	96-0640-05
CR-A 150006	96-0640-06
CR-A 150007	96-0640-07
CR-A 150008	96-0640-08
CR-A 150601	96-0640-09
CR-A 150602	96-0640-10
CR-A 150603	96-0640-11
CR-A 150604	96-0640-12
CR-A 150605	96-0640-13
CR-A 150606	96-0640-14
CR-A 150701	96-0640-15
CR-A 150702	96-0640-16
CR-A 150801	96-0640-17
CR-A 150802	96-0640-18
CR-A 150901	96-0640-19
CR-A 150902	96-0640-20

CLIENT: JACOBS ENGINEERING GROUP, INC.

REPORT #: 96-0640

Cross Reference Table I

Field Sample ID	Laboratory ID
CR-A 150903	96-0640-21
CR-A 150904	96-0640-22
CR-A 114301	96-0640-23
CR-A 114302	96-0640-24
CR-A 114303	96-0640-25
CR-A 114304	96-0640-26
CR-A 114305	96-0640-27
CR-A 114306	96-0640-28
CR-A 114307	96-0640-29
CR-A 114308	96-0640-30
CR-A 114309	96-0640-31

CLIENT: JACOBS ENGINEERING GROUP, INC.

REPORT #: 96-0640

Cross Reference Table II

Field Sample ID	QC Laboratory ID
CR-A 150801	96-0640-17MS1
CR-A 150801	96-0640-17SD1
CR-A 150001	96-0640-01MS1
CR-A 150001	96-0640-01SD1
CR-A 114307	96-0640-29MS1
CR-A 114307	96-0640-29SD1
CR-A 150008	96-0640-08MS1
CR-A 150008	96-0640-08SD1
CR-A 150602	96-0640-10MS1
CR-A 150602	96-0640-10SD1
CR-A 150606	96-0640-14MS1
CR-A 150606	96-0640-14SD1
CR-A 114304	96-0640-26MS1
CR-A 114304	96-0640-26SD1

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150601	Dilution Factor	1
Lab Sample ID	96-0640-09	Total Solids(%)	98 8
Lab Batch No.	S96-24		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2315	25-Mar-96	2325	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2315	25-Mar-96	2325	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2315	25-Mar-96	2325	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2315	25-Mar-96	2325	SW5030	SW8020	GC3	02-20-96	2

Chase A. Thibodaux
Quality Assurance Manager

aboratory ID	CERTES	Date Received	22-Mar-96
'roject No	10K70200	Matrix/Basis	S/D
:lient ID	CR-A 150601	Dilution Factor	1
ab Sample ID	96-0640-09	Total Solids(%)	98 8
ab Batch No	96S15		

'olatile Organic Compounds

ompound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
cetone	ACE	F		0 0000			0 01	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 1
enzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
romodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
romoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
romomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 01
-Butanone	MEK	F		0 0000			0 005	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 05
arbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
arbon tetrachloride	CTCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
hlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
hlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
hloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 01
-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 01
hloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
hloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 01
1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0.005
s-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
ans-1, 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
s-1 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
ans-1 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
thylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
Hexanone	HXO2	F		0 0000			0 006	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 05
ethylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 05
tyrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
1 2 2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
etrachloroethene	PCE	F		0 0000			0 001	0 0067	PR		=	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
oluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
1,1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0.005
1,2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
richloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
inyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 05
inyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 01
ylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	0 005
ibromofluoromethane (SS)	DBFM	T		100	78	114		88 8	PR		%	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	
oluene-d8 (SS)	BZMED8	T		100	88	110		99 5	PR		%	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	
romofluorobenzene (SS)	BR4FBZ	T		100	86	115		86 8	PR		%	MG/KG	01-Apr-96	1600	01-Apr-96	1644	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150602	Dilution Factor	1
Lab Sample ID	96-0640-10	Total Solids(%)	95 5
Lab Batch No	S-0433		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	3 9	8 61	PR	J	TR	MG/KG	26-Mar-96	0900	26-Mar-96	1300	SW3550	E418 1	IR	03-26-96	10

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150602	Dilution Factor	1
Lab Sample ID	96-0640-10	Total Solids(%)	95 5
Lab Batch No	SVS70		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			25 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzo(g h i)perylene	BZGHIP	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	660
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			48 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	660
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRYSENE	F		0 0000			32	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DNBP	F		0 0000			55 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNOP	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
1,3-Dichlorobenzene	DCBZ13	F		0 0000			52 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
1 4-Dichlorobenzene	DCBZ14	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
3 3'-Dichlorobenzidine	DBZD33	F		0 0000			81 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	660
2 4-Dichlorophenol	DCP24	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2 6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2,4-Dinitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
2 4-Dinitrotoluene	DNT24	F		0 0000			32 7	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Indeno(1,2 3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			48 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENOL	F		0 0000			30	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2 4 5-Trichlorophenol	TCP245	F		0 0000			45 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
1 2,4-Trichlorobenzene	TCB124	F		0 0000			42 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2 4,6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		80 7	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		85 2	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		76 4	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	30	115		78 5	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	
2 4 6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		106	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		92 9	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1524	SW3550	SW8270	5972	03-19-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150602	Dilution Factor	1
Lab Sample ID	96-0640-10	Total Solids(%)	95 5
Lab Batch No	1237		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	1320	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	40
Arsenic	AS	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	60
Barium	BA	F		0 0000	0 4	11 0	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	2
Beryllium	BE	F		0 0000	0 06	0 157	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	4
Calcium	CA	F		0 0000	2	17900	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	10
Chromium	CR	F		0 0000	1	2 09	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	7
Cobalt	CO	F		0 0000	1	1 46	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	7
Copper	CU	F		0 0000	0.7	2 41	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	6
Iron	FE	F		0 0000	1	3860	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	50
Magnesium	MG	F		0 0000	3	327	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	30
Manganese	MN	F		0 0000	0 2	49 5	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	8
Nickel	NI	F		0 0000	1	2.77	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	15
Potassium	K	F		0 0000	100	275	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	7
Sodium	NA	F		0 0000	5	34 0	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	40
Vanadium	V	F		0 0000	0 8	8 17	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	8
Zinc	ZN	F		0 0000	0 2	7 22	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1316	SW3050	SW6010	TJA	03-28-96	2

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 150603	Dilution Factor	1
Lab Sample ID	96-0640-11	Total Solids(%)	N/A
Lab Batch No	96W16		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			10	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	100
Benzene	BZ	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Bromodichloromethane	BDCME	F		0 0000			2	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Bromoform	TBME	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Bromomethane	BRME	F		0 0000			2	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	10
2-Butanone	MEK	F		0 0000			6	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	50
Carbon disulfide	CDS	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Carbon tetrachloride	CTCL	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Chlorobenzene	CLBZ	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Chlorodibromomethane	BDCME	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Chloroethane	CLEA	F		0 0000			2	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	10
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			5	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	10
Chloroform	TCLME	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Chloromethane	CLME	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	10
1,1-Dichloroethane	DCA11	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1,2-Dichloroethane	DCA12	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1,1-Dichloroethene	DCE11	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
trans-1 2-Dichloroethene	DCE12T	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1 2-Dichloropropane	DCPA12	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
trans-1, 3-Dichloropropene	DCP13T	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Ethylbenzene	EBZ	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
2-Hexanone	HXO2	F		0 0000			6	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	50
Methylene chloride	MTLNCL	F		0 0000			3	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
4-Methyl-2-pentanone	MIBK	F		0 0000			5	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	50
Styrene	STY	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1,1,2 2-Tetrachloroethane	PCA	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Tetrachloroethene	PCE	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Toluene	BZME	F		0 0000			1	0	PR	U	NO	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1,1,1-Trichloroethane	TCA111	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
1,1 2-Trichloroethane	TCA112	F		0 0000			2	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Trichloroethene	TCE	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Vinyl acetate	VA	F		0 0000			10	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	50
Vinyl chloride	VC	F		0 0000			2	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	10
Xylenes	XYLENES	F		0 0000			1	0	PR	U	ND	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	5
Dibromofluoromethane (SS)	DBFM	T		100	76	114		90 5	PR		%	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED8	T		100	88	110		102	PR		%	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	66	115		94	PR		%	UG/L	26-Mar-96	1200	26-Mar-96	1229	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 1S0604	Dilution Factor	1
Lab Sample ID	96-0640-12	Total Solids(%)	N/A
Lab Batch No	W-0270		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	0 2	0	PR	U	ND	MG/L	25-Mar-96	0900	25-Mar-96	1300	SW3550	E418 1	IR	03-25-96	1

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID CERTE5
Project No 10K70200
Client ID CR-A 150605
Lab Sample ID 96-0640-13
Lab Batch No SVW36

Date Received 22-Mar-96
Matrix/Basis W/X
Dilution Factor 1
Total Solids(%) N/A

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			1 06	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Acenapnthylene	ACNPY	F		0 0000			1 06	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Anthracene	ANTH	F		0 0000			1 15	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Benzo(a)anthracene	BZAA	F		0 0000			0 79	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Benzo(a)pyrene	BZAP	F		0 0000			1 27	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Benzo(b)fluoranthene	BZBF	F		0 0000			1 01	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Benzo(g h i)perylene	BZGHIP	F		0 0000			1 66	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Benzo(k)fluoranthene	BZKF	F		0 0000			2 62	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
Benzoic acid	BZACID	F		0 0000			1 79	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	20
Benzyl alcohol	BZLAL	F		0 0000			1 45	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			1 32	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			1 55	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			1 69	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			2 8	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			1 01	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Butylbenzylphthalate	BBP	F		0 0000			1 19	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	20
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			1 48	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	20
4-Chloroaniline	CLANIL4	F		0 0000			1 63	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2-Chlorophenol	CLPH2	F		0 0000			1 73	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			1 07	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2-Chloronaphthalene	CNPH2	F		0 0000			0 88	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Chrysene	CHRYSENE	F		0 0000			0 97	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Di-n-butylphthalate	DNBP	F		0 0000			1 67	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Di-n-octylphthalate	DNOP	F		0 0000			1 73	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			1 52	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Dibenzofuran	DBF	F		0 0000			1 13	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
1,2-Dichlorobenzene	DCBZ12	F		0 0000			1 56	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
1 3-Dichlorobenzene	DCBZ13	F		0 0000			1 58	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
1 4-Dichlorobenzene	DCBZ14	F		0 0000			1 6	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	20
3 3'-Dichlorobenzidine	DBZD33	F		0 0000			2 48	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 4-Dichlorophenol	DCP24	F		0 0000			1 6	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Diethylphthalate	DEPH	F		0 0000			1 43	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 4-Dimethylphenol	DMP24	F		0 0000			1 33	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Dimethylphthalate	DMPH	F		0 0000			1 11	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 6-Dinitrotoluene	DNT26	F		0 0000			1 09	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
2 4-Dinitrophenol	DNP24	F		0 0000			1 2	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			1 54	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 4-Dinitrotoluene	DNT24	F		0 0000			0 99	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Fluoranthene	FLA	F		0 0000			1 23	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Fluorene	FL	F		0 0000			1 07	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Hexachlorobenzene	HCLBZ	F		0 0000			1	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Hexachlorobutadiene	HCBU	F		0 0000			1 45	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Hexachlorocyclopentadiene	HCCP	F		0 0000			1 86	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Hexachloroethane	HCLEA	F		0 0000			1 4	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Indeno(1,2,3-cd)pyrene	INP123	F		0 0000			1 4	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Isophorone	ISOP	F		0 0000			1 45	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2-Methylnaphthalene	MTNPH2	F		0 0000			1 46	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2-Methylphenol	MEPH2	F		0 0000			1 6	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
4-Methylphenol	MEPH4	F		0 0000			1 66	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			1 68	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
N-Nitrosodiphenylamine	NNSPH	F		0 0000			1 15	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Naphthalene	NAPH	F		0 0000			1 21	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
2-Nitroaniline	NO2ANIL2	F		0 0000			1 16	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
4-Nitroaniline	NO2ANIL4	F		0 0000			2 23	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
3-Nitroaniline	NO2ANIL3	F		0 0000			1 33	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Nitrobenzene	NO2BZ	F		0 0000			1 5	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2-Nitrophenol	NTPH2	F		0 0000			1 41	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
4-Nitrophenol	NTPH4	F		0 0000			1 21	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	50
Pentachlorophenol	PCP	F		0 0000			1 61	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Phenanthrene	PHAN	F		0 0000			0 88	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Phenol	PHENDL	F		0 0000			0 91	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
Pyrene	PYR	F		0 0000			1 33	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 4 5-Trichlorophenol	TCP245	F		0 0000			1 37	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
1 2 4-Trichlorobenzene	TCB124	F		0 0000			1 3	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	10
2 4,6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
2-Fluorophenol (SS)	PH2F	T		100	21	100		60	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	10	94		36 5	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	35	114		92.8	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
2-Fluorobiphenyl (5S)	PHEN2F	T		100	43	116		103	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
2 4 6-Tribromophenol (SS)	PHEN2BR246	T		100	10	123		115	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	
o-Terphenyl-d14 (5S)	PHEND14	T		100	33	141		23 1	PR		%	UG/L	25-Mar-96	1300	27-Mar-96	0915	SW3510	SW8270	5972	03-19-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 150606	Dilution Factor	1
Lab Sample ID	96-0640-14	Total Solids(%)	N/A
Lab Batch No.	1238		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	0 05	0 08	PR	J	TR	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 5
Antimony	SB	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 4
Arsenic	AS	F		0 0000	0 03	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 6
Barium	BA	F		0 0000	0 004	0 02	PR		=	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 02
Beryllium	BE	F		0 0000	0 0006	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0
Cadmium	CD	F		0 0000	0 009	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 04
Calcium	CA	F		0 0000	0 02	3	PR		=	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 1
Chromium	CR	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 07
Cobalt	CO	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 07
Copper	CU	F		0.0000	0 007	0 04	PR	J	TR	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 06
Iron	FE	F		0 0000	0 01	0.08	PR		=	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 07
Lead	PB	F		0 0000	0 03	0 08	PR	J	TR	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 5
Magnesium	MG	F		0 0000	0 03	0 66	PR		=	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 3
Manganese	MN	F		0 0000	0 002	0 005	PR	J	TR	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 02
Molybdenum	MO	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 08
Nickel	NI	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 15
Potassium	K	F		0 0000	1	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	5
Selenium	SE	F		0 0000	0 04	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 8
Silver	AG	F		0 0000	0 01	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1814	SW3010	SW6010	TJA	03-28-96	0 07
Sodium	NA	F		0 0000	0 05	0 25	PR	J	TR	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 3
Thallium	TL	F		0 0000	0 04	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 4
Vanadium	V	F		0 0000	0 008	0	PR	U	ND	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 08
Zinc	ZN	F		0 0000	0 002	0 13	PR		=	MG/L	27-Mar-96	0930	28-Mar-96	1614	SW3010	SW6010	TJA	03-28-96	0 02

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150701	Dilution Factor	1
Lab Sample ID	96-0640-15	Total Solids(%)	90 5
Lab Batch No	S-0433		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	3 9	181	PR		=	MG/KG	26-Mar-96	0900	26-Mar-96	1300	SW3550	E418 1	IR	03-26-96	10

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150701	Dilution Factor	1
Lab Sample ID	96-0640-15	Total Solids(%)	90 5
Lab Batch No.	SVS70		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	POL
Acenaphtnene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			26 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzo(g h i)perylene	BZGHIP	F		0 0000			54 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	660
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			48 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	660
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRYSENE	F		0 0000			32	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DN8P	F		0 0000			55 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNDP	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
1 3-Dichlorobenzene	DCBZ13	F		0 0000			52 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
1 4-Dichlorobenzene	DCBZ14	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
3 3-Dichlorobenzidine	DBZD33	F		0 0000			81 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	660
2 4-Dichlorophenol	DCP24	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2 6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2 4-D nitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
2 4-Dinitrotoluene	DNT24	F		0 0000			32 7	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47.9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Indeno(1 2,3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			48 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENOL	F		0 0000			30	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2 4 5-Trichlorophenol	TCP245	F		0 0000			45.2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
1,2,4-Trichlorobenzene	TCB124	F		0 0000			42 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2,4,6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		70	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		78 6	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		75 1	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	30	115		83 2	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	
2 4,6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		108	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	
o-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		96	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1525	SW3550	SW8270	5972	03-19-96	

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150701	Dilution Factor	1
Lab Sample ID	96-0640-15	Total Solids(%)	90 5
Lab Batch No	1237		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	1140	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	40
Arsenic	AS	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	60
Barium	BA	F		0 0000	0 4	0 442	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	2
Beryllium	BE	F		0 0000	0 06	0 110	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	4
Calcium	CA	F		0 0000	2	103000	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	10
Chromium	CR	F		0 0000	1	2.49	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	7
Cobalt	CO	F		0 0000	1	1.10	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	7
Copper	CU	F		0 0000	0 7	1 82	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	6
Iron	FE	F		0 0000	1	3160	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	50
Magnesium	MG	F		0 0000	3	858	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	30
Manganese	MN	F		0 0000	0 2	65 6	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	8
Nickel	NI	F		0 0000	1	2 60	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	15
Potassium	K	F		0 0000	100	250	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	7
Sodium	NA	F		0 0000	5	68 5	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	40
Vanadium	V	F		0 0000	0 8	8 95	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	8
Zinc	ZN	F		0 0000	0 2	5 74	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1325	SW3050	SW6010	TJA	03-28-96	2

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150702	Dilution Factor	1
Lab Sample ID	96-0640-16	Total Solids(%)	91 7
Lab Batch No.	S96-24		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2345	25-Mar-96	2354	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2345	25-Mar-96	2354	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2345	25-Mar-96	2354	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	2345	25-Mar-96	2354	SW5030	SW8020	GC3	02-20-96	2

Chase A Thibodaux
Quality Assurance Manager

aboratory ID CERTES
roject No 10K70200
lient ID CR-A 150702
ab Sample ID 96-0640-16
ab Batch No 96S15

Date Received 22-Mar-96
Matrix/Basis S/D
Dilution Factor 1
Total Solids(%) 91 7

olatile Organic Compounds

ompound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
cetone	ACE	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 1
enzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
romodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
romoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
romomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 01
-Butanone	MEK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 05
arbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
arbon tetrachloride	CTCL	F		0.0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
hlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
hlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
hloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 01
-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 01
hloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
hloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 01
,1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
,2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0.005
,1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
s-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
rans-1, 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
,2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
s-1 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
rans-1, 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
thylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 05
-Hexanone	HXO2	F		0 0000			0 008	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
ethylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 05
-Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
tyrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
,1 2 2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
etrachloroethene	PCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
oluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
,1 1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
,1,2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 005
richloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 05
inyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0 01
inyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	0.005
Xylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	
Dibromofluoromethane (SS)	DBFM	T		100	76	114		106	PR		%	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED8	T		100	88	110		103	PR		%	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		88 6	PR		%	MG/KG	26-Mar-96	1400	26-Mar-96	1423	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150801	Dilution Factor	1
Lab Sample ID	96-0640-17	Total Solids(%)	79 5
Lab Batch No	S96-23		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	22-Mar-96	2310	22-Mar-96	2328	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	22-Mar-96	2310	22-Mar-96	2328	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	22-Mar-96	2310	22-Mar-96	2328	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	0	PR	U	ND	UG/KG	22-Mar-96	2310	22-Mar-96	2328	SW5030	SW8020	GC3	02-20-96	2

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150801	Dilution Factor	1
Lab Sample ID	96-0640-17	Total Solids(%)	79 5
Lab Batch No.	96S15		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 1
Benzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Bromodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Bromoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Bromomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 01
2-Butanone	MEK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 05
Carbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Carbon tetrachloride	CTCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Chlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Chlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0.005
Chloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 01
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 01
Chloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Chloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 01
1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
,2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
,1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
trans-1, 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
trans-1 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Ethylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
2-Hexanone	HXO2	F		0 0000			0 006	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 05
Methylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
4-Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 05
Styrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
,1,2 2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0.005
Tetrachloroethene	PCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Toluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
1,1,1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
1,1,2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Trichloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Vinyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 05
Vinyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 01
Xylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	0 005
Dibromofluoromethane (SS)	DBFM	T		100	76	114		115	PR		%	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED6	T		100	88	110		102	PR		%	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	66	115		93 2	PR		%	MG/KG	26-Mar-96	1500	26-Mar-96	1534	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150802	Dilution Factor	1
Lab Sample ID	96-0640-18	Total Solids(%)	80
Lab Batch No	S-0433		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	3 9	7 71	PR	J	TR	MG/KG	26-Mar-96	0900	26-Mar-96	1300	SW3550	E418 1	IR	03-26-96	10

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150802	Dilution Factor	1
Lab Sample ID	96-0640-18	Total Solids(%)	80
Lab Batch No.	SVS70		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			26 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Benzo(g h i)perylene	BZGHIP	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	660
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	660
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			48 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRYSENE	F		0 0000			32	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DNBP	F		0 0000			55 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNOP	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
1 3-Dichlorobenzene	DCBZ13	F		0 0000			52 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
1 4-Dichlorobenzene	DCBZ14	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	660
3,3'-Dichlorobenzidine	DBZD33	F		0 0000			81 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2 4-Dichlorophenol	DCP24	F		0 0000			52.8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2,6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2,4-Dinitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
4,6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
2 4-Dinitrotoluene	DNT24	F		0 0000			32.7	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Indeno(1 2,3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			48 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53.1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENOL	F		0 0000			30	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2,4,5-Trichlorophenol	TCP245	F		0 0000			45 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
1,2,4-Trichlorobenzene	TCB124	F		0 0000			42.9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2,4 6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		84	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		89 7	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		79 3	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	30	115		82 1	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	
2 4,6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		112	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		93 6	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1526	SW3550	SW8270	5972	03-19-96	

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150802	Dilution Factor	1
Lab Sample ID	96-0640-18	Total Solids(%)	80
Lab Batch No	1237		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	3740	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	40
Arsenic	AS	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	60
Barium	BA	F		0 0000	0 4	124	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	2
Beryllium	BE	F		0 0000	0 06	0 312	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	4
Calcium	CA	F		0 0000	2	406000	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	10
Chromium	CR	F		0 0000	1	4 31	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	7
Cobalt	CO	F		0 0000	1	2 75	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	7
Copper	CU	F		0 0000	0 7	3 5	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	6
Iron	FE	F		0 0000	1	4750	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	50
Magnesium	MG	F		0 0000	3	1030	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	30
Manganese	MN	F		0 0000	0 2	419	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	8
Nickel	NI	F		0 0000	1	6 62	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	15
Potassium	K	F		0 0000	100	680	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	7
Sodium	NA	F		0 0000	5	49 1	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	40
Vanadium	V	F		0 0000	0 8	32 8	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	8
Zinc	ZN	F		0 0000	0 2	8 75	PR		*	MG/KG	27-Mar-96	0900	28-Mar-96	1337	SW3050	SW6010	TJA	03-28-96	2

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150901	Dilution Factor	1
Lab Sample ID	96-0640-19	Total Solids(%)	79 5
Lab Batch No	S-0433		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	3 9	7 76	PR	J	TR	MG/KG	26-Mar-96	0900	26-Mar-96	1300	SW3550	E418 1	IR	03-26-96	10

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150901	Dilution Factor	1
Lab Sample ID	96-0640-19	Total Solids(%)	79 5
Lab Batch No.	SVS70		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			26 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzo(g h i)perylene	BZGHIP	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	660
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			48 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	660
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRYSENE	F		0 0000			32	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DNBP	F		0 0000			55 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNOP	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
1 3-Dichlorobenzene	DCBZ13	F		0 0000			52 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
1 4-Dichlorobenzene	DCBZ14	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
3 3'-Dichlorobenzidine	DBZD33	F		0 0000			81 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	660
2 4-Dichlorophenol	DCP24	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2 6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2,4-Dinitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
2 4-Dinitrotoluene	DNT24	F		0 0000			32 7	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Indeno(1 2 3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			48 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENOL	F		0 0000			30	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2,4,5-Trichlorophenol	TCP245	F		0 0000			45 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
1 2 4-Trichlorobenzene	TCB124	F		0 0000			42 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2,4 6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		79	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		79 3	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		71 9	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	330	115		74 1	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	
2 4,6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		102	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		84 6	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1527	SW3550	SW8270	5972	03-19-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150901	Dilution Factor	1
Lab Sample ID	*96-0640-19*	Total Solids(%)	79 5
Lab Batch No	1237		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	2970	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	40
Arsenic	AS	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	60
Barium	BA	F		0 0000	0 4	146	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	2
Beryllium	BE	F		0 0000	0 06	0 226	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	4
Calcium	CA	F		0 0000	2	409000	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	10
Chromium	CR	F		0 0000	1	2 77	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	7
Cobalt	CO	F		0 0000	1	1 64	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	7
Copper	CU	F		0 0000	0 7	1 82	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	6
Iron	FE	F		0 0000	1	3570	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	50
Magnesium	MG	F		0 0000	3	890	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	30
Manganese	MN	F		0 0000	0 2	200	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	8
Nickel	NI	F		0 0000	1	2 96	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	15
Potassium	K	F		0 0000	100	345	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	7
Sodium	NA	F		0 0000	5	151	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	40
Vanadium	V	F		0 0000	0 8	20 4	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	8
Zinc	ZN	F		0 0000	0 2	11 2	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1347	SW3050	SW6010	TJA	03-28-96	2

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150902	Dilution Factor	1
Lab Sample ID	96-0640-20	Total Solids(%)	80
Lab Batch No	S96-24		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	1450	25-Mar-96	1509	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	1450	25-Mar-96	1509	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	1450	25-Mar-96	1509	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	0	PR	U	ND	UG/KG	25-Mar-96	1450	25-Mar-96	1509	SW5030	SW8020	GC3	02-20-96	2

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150902	Dilution Factor	1
Lab Sample ID	96-0640-20	Total Solids(%)	80
Lab Batch No	96S15		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0.1
Benzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Bromodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Bromoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Bromomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 01
2-Butanone	MEK	F		0 0000			0.005	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 05
Carbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Carbon tetrachloride	CTCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Chlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Chlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Chloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 01
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 01
Chloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Chloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 01
1,1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
1 2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
1,1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
trans-1, 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
trans-1, 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Ethylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
2-Hexanone	HXD2	F		0 0000			0 006	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 05
Methylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0.005
4-Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 05
Styrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0.005
1 1,2,2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Tetrachloroethene	PCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0.005
Toluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
1,1,1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
1,1 2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Trichloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Vinyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 05
Vinyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 01
Xylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	0 005
Dibromofluoromethane (SS)	DBFM	T		100	76	114		110	PR		%	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED6	T		100	88	110		101	PR		%	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		93	PR		%	MG/KG	26-Mar-96	1515	26-Mar-96	1546	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150903	Dilution Factor	1
Lab Sample ID	96-0640-21	Total Solids(%)	80 7
Lab Batch No	S96-23		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	23-Mar-96	2318	23-Mar-96	2342	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	23-Mar-96	2318	23-Mar-96	2342	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	23-Mar-96	2318	23-Mar-96	2342	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	1 13	PR	J	TR	UG/KG	23-Mar-96	2318	23-Mar-96	2342	SW5030	SW8020	GC3	02-20-96	2

Chase A Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150903	Dilution Factor	1
Lab Sample ID	96-0640-21	Total Solids(%)	80 7
Lab Batch No	96S15		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 1
Benzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Bromodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Bromoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Bromomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 01
2-Butanone	MEK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 05
Carbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Carbon tetrachloride	CTCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Chlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Chlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Chloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 01
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 01
Chloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Chloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 01
1,1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
1,1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
trans-1 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0.005
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
trans-1 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Ethylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
2-Hexanone	HXO2	F		0 0000			0 006	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 05
Methylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
4-Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 05
Styrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
1,1,2,2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Tetrachloroethene	PCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Toluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
1,1,1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0.005
1,1,2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0.005
Trichloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Vinyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 05
Vinyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 01
Xylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	0 005
Dibromofluoromethane (SS)	DBFM	T		100	76	114		87 5	PR		%	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED8	T		100	88	110		102	PR		%	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		91 3	PR		%	MG/KG	26-Mar-96	1530	26-Mar-96	1609	SW5030	SW8240	5971	03-22-96	

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150904	Dilution Factor	1
Lab Sample ID	96-0640-22	Total Solids(%)	79 7
Lab Batch No	SVS70		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			26 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzo(g h,i)perylene	BZGHIP	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1850
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	660
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			48 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	660
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRYSENE	F		0 0000			32	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DNBP	F		0 0000			55 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNOP	F		0 0000			57 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
1 3-Dichlorobenzene	DCBZ13	F		0 0000			52 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
1 4-Dichlorobenzene	DCBZ14	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
3 3-Dichlorobenzidine	DBZD33	F		0 0000			81 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	660
2,4-Dichlorophenol	DCP24	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2 6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2 4-Dinitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1850
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1850
2 4-Dinitrotoluene	DNT24	F		0 0000			32 7	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Indeno(1 2 3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			46 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 8	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53 1	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENDL	F		0 0000			30	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2,4,5-Trichlorophenol	TCP245	F		0 0000			45 2	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
1 2,4-Trichlorobenzene	TCB124	F		0 0000			42 9	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2,4 6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		63 5	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		65 6	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		76 5	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	30	115		76 2	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	
2 4 6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		105	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		94 6	PR		%	UG/KG	25-Mar-96	0900	26-Mar-96	1528	SW3550	SW8270	5972	03-19-96	

Chase A Thibodaux
Quality Assurance Manager

615 115

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150904	Dilution Factor	1
Lab Sample ID	96-0640-22	Total Solids(%)	79 7
Lab Batch No	S-0433		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	3 9	25 8	PR		=	MG/KG	26-Mar-96	0900	26-Mar-96	1300	SW3550	E418.1	IR	03-26-96	10

Chase A. Thibodaux
Quality Assurance Manager

Laboratory ID	CERTES	Date Received	22-Mar-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 150904	Dilution Factor	1
Lab Sample ID	96-0640-22	Total Solids(%)	79 7
Lab Batch No.	1237		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	2600	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	40
Arsenic	AS	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	60
Barium	BA	F		0 0000	0 4	128	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	2
Beryllium	BE	F		0 0000	0 06	0 251	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	4
Calcium	CA	F		0 0000	2	487000	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	10
Chromium	CR	F		0 0000	1	2 51	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	7
Cobalt	CO	F		0 0000	1	1 83	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	7
Copper	CU	F		0 0000	0 7	1 88	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	6
Iron	FE	F		0 0000	1	3420	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	50
Magnesium	MG	F		0 0000	3	839	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	30
Manganese	MN	F		0 0000	0 2	191	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	8
Nickel	NI	F		0 0000	1	2 76	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	15
Potassium	K	F		0 0000	100	311	PR	J	TR	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	7
Sodium	NA	F		0 0000	5	156	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	40
Vanadium	V	F		0 0000	0 8	18 4	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	8
Zinc	ZN	F		0 0000	0 2	10 0	PR		=	MG/KG	27-Mar-96	0900	28-Mar-96	1359	SW3050	SW6010	TJA	03-28-96	2

Chase A. Thibodaux
Quality Assurance Manager

Certes
Environmental Laboratories, L.C.

2209 Wisconsin Street, Suite 200
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214-620-7966
800-394-2872
214-620-7963 FAX

CERTES ENVIRONMENTAL LABORATORIES
ANALYTICAL REPORT

CEL #: 96-0673

Project #: 10K70200

JACOBS ENGINEERING GROUP, INC.
600 Seventeenth St., Ste 1100N
Denver, CO 80202

Attn: Lynn Schuetter

Date: August 5, 1996

Included are the results for the samples submitted to Certes. All testing was performed using approved EPA Methods, unless otherwise stated. All results have been reviewed and Quality Control criteria met. If you have any questions concerning the analytical data please contact Chase A. Thibodaux, Laboratory Manager, at 214/620-7966. Thank you for the opportunity to service your environmental testing needs.

Sincerely,
Certes Environmental Laboratories, L.C.
Per:

Chase A. Thibodaux

Chase A. Thibodaux
Laboratory Manager

CLIENT: JACOBS ENGINEERING GROUP, INC

REPORT #: 96-0673

CASE NARRATIVE

1. Soil samples submitted to Certes for the analysis of BTEX under batch number S96-25 utilized Quality Control data from 3/29/96. The samples were analyzed on 3/29/96, 3/30/96 and 4/01/96.

2. Confirmation analyses for BTEX hits by EPA Method 8240 utilized Quality Control data from 3/14/96.

3. Soil samples submitted for the analysis of Total Petroleum Hydrocarbons were analyzed on 3/29/96. The Quality Control data used for this batch (S0434) is from 3/26/96.

4. Soil samples submitted for the analysis of Semi-Volatiles (8270) were analyzed on 4/02/96 under batch SVS70. The corresponding Quality Control data used was analyzed on 3/26/96. Furthermore, the spiking compound list used for LCS, MS/MSD was limited to 11 compounds and not the full 8270 list.

5 Batch number SVW38 for the analysis of waters under EPA Method 8270 utilized 11 compounds for the Quality Control spike list i.e., LCS and MS/MSD, instead of the full 8270 list.

6. Batch number 96W18 for the analyses of waters under EPA Method 8240 used a list of 5 compounds for the spike list and not the full list.

CLIENT: JACOBS ENGINEERING GROUP, INC

REPORT #: 96-0673

Cross Reference Table I

Field Sample ID	Laboratory ID
CR-A 150101	96-0673-01
CR-A 150102	96-0673-02
CR-A 150103	96-0673-03
CR-A 150104	96-0673-04
CR-A 150105	96-0673-05
CR-A 150106	96-0673-06
CR-A 150107	96-0673-07
CR-A 150108	96-0673-08
CR-A 150109	96-0673-09
CR-A 150201	96-0673-10
CR-A 150202	96-0673-11
CR-A 150203	96-0673-12
CR-A 150204	96-0673-13
CR-A 150205	96-0673-14
CR-A 114401	96-0673-15
CR-A 114402	96-0673-16
CR-A 151801	96-0673-17
CR-A 151802	96-0673-18
CR-A 151803	96-0673-19
CR-A 151804	96-0673-20

CLIENT: JACOBS ENGINEERING GROUP, INC

REPORT #: 96-0673

Cross Reference Table I

Field Sample ID	Laboratory ID
CR-A 151805	96-0673-21
CR-A 151806	96-0673-22
CR-A 151807	96-0673-23
CR-A 151701	96-0673-24
CR-A 151702	96-0673-25
CR-A 151703	96-0673-26
CR-A 151704	96-0673-27
CR-A 151705	96-0673-28
CR-A 151706	96-0673-29
CR-A 151707	96-0673-30
CR-A 151708	96-0673-31

CLIENT: JACOBS ENGINEERING GROUP, INC

REPORT #: 96-0673

Cross Reference Table II

Field Sample ID	QC Laboratory ID
CR-A 150101	96-0673-01MS1
CR-A 150101	96-0673-01SD1
CR-A 150205	96-0673-13MS2
CR-A 150205	96-0673-13SD2
CR-A 114304	96-0673-26MS3
CR-A 114304	96-0673-26SD3
CR-A 114402	96-0673-15MS4
CR-A 114402	96-0673-15SD4
CR-A 150602	96-0673-10MS5
CR-A 150602	96-0673-10SD5
CR-A 157701	96-0673-23MS6
CR-A 157701	96-0673-23SD6

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151702	Dilution Factor	1
Lab Sample ID	96-0673-24	Total Solids(%)	N/A
Lab Batch No	SVW36		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			1 06	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Acenaphthylene	ACNPY	F		0 0000			1 06	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Anthracene	ANTH	F		0 0000			1 15	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzo(a)anthracene	BZAA	F		0 0000			0 79	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzo(a)pyrene	BZAP	F		0 0000			1 27	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzo(b)fluoranthene	BZBF	F		0 0000			1 01	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzo(g h i)perylene	BZGHIP	F		0 0000			1 66	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzo(k)fluoranthene	BZKF	F		0 0000			2 62	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Benzoic acid	BZACID	F		0 0000			1 79	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
Benzyl alcohol	BZLAL	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	20
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			1 32	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			1 55	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			1 69	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			2 8	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			1 01	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Butylbenzylphthalate	BBP	F		0 0000			1 19	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			1 46	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	20
4-Chloroaniline	CLANIL4	F		0 0000			1 63	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	20
2-Chlorophenol	CLPH2	F		0 0000			1 73	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			1 07	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Chloronaphthalene	CNPH2	F		0 0000			0 88	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Chrysene	CHRYSENE	F		0 0000			0 97	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Di-n-butylphthalate	DNBP	F		0 0000			1 67	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Di-n-octylphthalate	DNOP	F		0 0000			1 73	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			1 52	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Dibenzofuran	DBF	F		0 0000			1 13	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
1 2-Dichlorobenzene	DCBZ12	F		0 0000			1 56	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
1 3-Dichlorobenzene	DCBZ13	F		0 0000			1 58	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
1,4-Dichlorobenzene	DCBZ14	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
3 3'-Dichlorobenzidine	DBZD33	F		0 0000			2 48	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	20
2 4-Dichlorophenol	DCP24	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Diethylphthalate	DEPH	F		0 0000			1 43	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2,4-Dimethylphenol	DMP24	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Dimethylphthalate	DMPH	F		0 0000			1 11	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2,6-Dinitrotoluene	DNT26	F		0 0000			1 09	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2,4-Dinitrophenol	DNP24	F		0 0000			1 2	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
4,6-Dinitro-2-methylphenol	DN46M	F		0 0000			1 54	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
2,4-Dinitrotoluene	DNT24	F		0 0000			0 99	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Fluoranthene	FLA	F		0 0000			1 23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Fluorene	FL	F		0 0000			1 07	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Hexachlorobenzene	HCLBZ	F		0 0000			1	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Hexachlorobutadiene	HCBU	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Hexachlorocyclopentadiene	HCCP	F		0 0000			1 86	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Hexachloroethane	HCLEA	F		0 0000			1.4	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Indeno(1 2 3-cd)pyrene	INP123	F		0 0000			1 4	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Isophorone	ISOP	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Methylnaphthalene	MTNPH2	F		0 0000			1 46	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Methylphenol	MEPH2	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
4-Methylphenol	MEPH4	F		0 0000			1 66	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			1 68	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
N-Nitrosodiphenylamine	NNSPH	F		0 0000			1 15	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Naphthalene	NAPH	F		0 0000			1 21	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Nitroaniline	NO2ANIL2	F		0 0000			1 16	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
4-Nitroaniline	NO2ANIL4	F		0 0000			2 23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
3-Nitroaniline	NO2ANIL3	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
Nitrobenzene	NO2BZ	F		0 0000			1 5	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Nitrophenol	NTPH2	F		0 0000			1 41	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
4-Nitrophenol	NTPH4	F		0 0000			1 21	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
Pentachlorophenol	PCP	F		0 0000			1 61	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	50
Phenanthrene	PHAN	F		0 0000			0 88	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Phenol	PHENOL	F		0 0000			0 91	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
Pyrene	PYR	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2 4,5-Trichlorophenol	TCP245	F		0 0000			1 37	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
1,2,4-Trichlorobenzene	TCB124	F		0 0000			1 3	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2,4,6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	10
2-Fluorophenol (SS)	PH2F	T		100	21	100		49 2	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	10	94		33	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	35	114		62 6	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	43	116		64 7	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	
2 4,6-Tribromophenol (SS)	PHEN2BR246	T		100	10	123		95 2	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	33	141		41	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1641	SW3510	SW8270	5972	03-19-96	

Chase A Thibodaux
Laboratory Manager

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Laboratory ID	CERTES	Date Received	27-Mar-96
Project No.	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151703	Dilution Factor	1
Lab Sample ID	96-0673-25	Total Solids(%)	N/A
Lab Batch No.	W-0274		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	0 2	0 49	PR	J	TR	MG/L	25-Mar-96	1300	28-Mar-96	1400	SW3510	E418 1	IR	03-28-96	1

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No.	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151704	Dilution Factor	1
Lab Sample ID	96-0673-26	Total Solids(%)	N/A
Lab Batch No	W96-29		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 16	0	PR	U	ND	UG/L	30-Mar-96	1515	30-Mar-96	1529	SW5030	SW8020	GC3	02-20-96	1
Toluene	BZME	F		0 0000	0 09	0	PR	U	ND	UG/L	30-Mar-96	1515	30-Mar-96	1529	SW5030	SW8020	GC3	02-20-96	1
Ethylbenzene	EBZ	F		0 0000	0 1	0	PR	U	ND	UG/L	30-Mar-96	1515	30-Mar-96	1529	SW5030	SW8020	GC3	02-20-96	1
Xylenes	XYLENES	F		0 0000	0 3	0	PR	U	ND	UG/L	30-Mar-96	1515	30-Mar-96	1529	SW5030	SW8020	GC3	02-20-96	1

Chase A Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No.	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151705	Dilution Factor	1
Lab Sample ID	96-0673-27	Total Solids(%)	N/A
Lab Batch No	96W18		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			10	12.1	PR	J	TR	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	100
Benzene	BZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Bromodichloromethane	BDCME	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Bromoform	TBME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Bromomethane	BRME	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	10
2-Butanone	MEK	F		0 0000			6	11 7	PR	J	TR	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	50
Carbon disulfide	CDS	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Carbon tetrachloride	CTCL	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Chlorobenzene	CLBZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Chlorodibromomethane	BDCME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Chloroethane	CLEA	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	10
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			5	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	10
Chloroform	TCLME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Chloromethane	CLME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	10
1,1-Dichloroethane	DCA11	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1,2-Dichloroethane	DCA12	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1 1-Dichloroethene	DCE11	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
trans-1, 2-Dichloroethene	DCE12T	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1 2-Dichloropropane	DCPA12	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
trans-1 3-Dichloropropene	DCP13T	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Ethylbenzene	EBZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	50
2-Hexanone	HXO2	F		0 0000			6	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Methylene chloride	MTLNCL	F		0 0000			3	3 23	PR	J	TR	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	50
4-Methyl-2-pentanone	MIBK	F		0 0000			5	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Styrene	STY	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1,1,2 2-Tetrachloroethane	PCA	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Tetrachloroethene	PCE	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Toluene	BZME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1,1,1-Trichloroethane	TCA111	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
1 1,2-Trichloroethane	TCA112	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Trichloroethene	TCE	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	50
Vinyl acetate	VA	F		0 0000			10	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	10
Vinyl chloride	VC	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	5
Xylenes	XYLENES	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	
Dibromofluoromethane (SS)	DBFM	T		100	76	114		108	PR		%	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	
Toluene-d6 (SS)	BZMED8	T		100	86	110		96 1	PR		%	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		92 6	PR		%	UG/L	02-Apr-96	1615	02-Apr-96	1629	SW5030	SW8240	5971	03-22-96	

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151707	Dilution Factor	1
Lab Sample ID	96-0673-29	Total Solids(%)	N/A
Lab Batch No	SVW36		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			1 06	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Acenaphthylene	ACNPY	F		0 0000			1 06	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Anthracene	ANTH	F		0 0000			1 15	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzo(a)anthracene	BZAA	F		0 0000			0 79	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzo(a)pyrene	BZAP	F		0 0000			1 27	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzo(b)fluoranthene	BZBF	F		0 0000			1 01	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzo(g h i)perylene	BZGHIP	F		0 0000			1 66	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzo(k)fluoranthene	BZKF	F		0 0000			2.62	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Benzoic acid	BZACID	F		0 0000			1 79	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
Benzyl alcohol	BZLAL	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	20
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			1 32	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			1 55	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			1 69	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			2 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			1 01	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Butylbenzylphthalate	BBP	F		0 0000			1 19	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			1 48	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	20
4-Chloroaniline	CLANIL4	F		0 0000			1 63	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	20
2-Chlorophenol	CLPH2	F		0 0000			1 73	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			1 07	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Chloronaphthalene	CNPH2	F		0 0000			0 88	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Chrysene	CHRYSENE	F		0 0000			0 97	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Di-n-butylphthalate	DNBP	F		0 0000			1 67	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Di-n-octylphthalate	DNOP	F		0 0000			1 73	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Dibenzo(a h)anthracene	DBZAHP	F		0 0000			1 52	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Dibenzofuran	DBF	F		0 0000			1 13	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
1 2-Dichlorobenzene	DCBZ12	F		0 0000			1 56	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
1 3-Dichlorobenzene	DCBZ13	F		0 0000			1 58	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
1 4-Dichlorobenzene	DCBZ14	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
3 3'-Dichlorobenzidine	DBZD33	F		0 0000			2 46	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	20
2 4-Dichlorophenol	DCP24	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Diethylphthalate	DEPH	F		0 0000			1 43	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2 4-Dimethylphenol	DMP24	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Dimethylphthalate	DMPH	F		0 0000			1 11	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2 6-Dinitrotoluene	DNT26	F		0 0000			1 09	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2 4-Dinitrophenol	DNP24	F		0 0000			1.2	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			1 54	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
2 4-Dinitrotoluene	DNT24	F		0 0000			0 99	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Fluoranthene	FLA	F		0 0000			1 23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Fluorene	FL	F		0 0000			1 07	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Hexachlorobenzene	HCLBZ	F		0 0000			1	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Hexachlorobutadiene	HCBU	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Hexachlorocyclopentadiene	HCCP	F		0 0000			1 86	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Hexachloroethane	HCLEA	F		0 0000			1 4	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Indeno(1,2 3-cd)pyrene	INP123	F		0 0000			1 4	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Isophorone	ISOP	F		0 0000			1 45	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Methylnaphthalene	MTNPH2	F		0 0000			1 46	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Methylphenol	MEPH2	F		0 0000			1 6	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
4-Methylphenol	MEPH4	F		0 0000			1 68	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			1 68	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
N-Nitrosodiphenylamine	NNSPH	F		0 0000			1 15	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Naphthalene	NAPH	F		0 0000			1 21	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Nitroaniline	NO2ANIL2	F		0 0000			1 18	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
4-Nitroaniline	NO2ANIL4	F		0 0000			2.23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
3-Nitroaniline	NO2ANIL3	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
Nitrobenzene	NO2BZ	F		0 0000			1 5	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Nitrophenol	NTPH2	F		0 0000			1 41	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
4-Nitrophenol	NTPH4	F		0 0000			1.21	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
Pentachlorophenol	PCP	F		0 0000			1 61	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	50
Phenanthrene	PHAN	F		0 0000			0 88	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Phenol	PHENOL	F		0 0000			0 91	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
Pyrene	PYR	F		0 0000			1 33	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2,4,5-Trichlorophenol	TCP245	F		0 0000			1 37	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
1,2,4-Trichlorobenzene	TCB124	F		0 0000			1 3	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2,4 6-Trichlorophenol	TCP246	F		0 0000			1.23	0	PR	U	ND	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	10
2-Fluorophenol (SS)	PH2F	T		100 0000	21	100		53.7	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100 0000	10	94		36 1	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100 0000	35	114		64 3	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100 0000	43	116		73	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	
2,4 6-Tribromophenol (SS)	PHEN2BR246	T		100 0000	10	123		110	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100 0000	33	141		68 5	PR		%	UG/L	27-Mar-96	1930	02-Apr-96	1721	SW3510	SW8270	5972	03-19-96	

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No.	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151708	Dilution Factor	1
Lab Sample ID	96-0673-30	Total Solids(%)	N/A
Lab Batch No	W-0274		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
TPH	PHC	F		0 0000	0 2	0	PR	U	ND	MG/L	28-Mar-96	1300	28-Mar-96	1400	SW3510	E418 1	IR	03-28-96	1

Chase A. Thibodaux
960401 Laboratory Manager

Laboratory ID	CERTES	Date Received	27-Mar-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151709	Dilution Factor	1
Lab Sample ID	96-0673-31	Total Solids(%)	N/A
Lab Batch No.	96W18		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			10	15 4	PR	J	TR	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	100
Benzene	BZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Bromodichloromethane	BDCME	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Bromoform	TBME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Bromomethane	BRME	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	10
2-Butanone	MEK	F		0 0000			6	11 8	PR	J	TR	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	50
Carbon disulfide	CDS	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Carbon tetrachloride	CTCL	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Chlorobenzene	CLBZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Chlorodibromomethane	BDCME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Chloroethane	CLEA	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	10
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			5	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	10
Chloroform	TCLME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Chloromethane	CLME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	10
1 1-Dichloroethane	DCA11	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1 2-Dichloroethane	DCA12	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1,1-Dichloroethene	DCE11	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
cis-1 2-Dichloroethene	DCE12C	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
trans-1 2-Dichloroethene	DCE12T	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1 2-Dichloropropane	DCPA12	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
cis-1, 3-Dichloropropene	DCP13C	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
trans-1 3-Dichloropropene	DCP13T	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Ethylbenzene	EBZ	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
2 Hexanone	HXO2	F		0 0000			6	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	50
Methylene chloride	MTLNCL	F		0 0000			3	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
4-Methyl-2-pentanone	MIBK	F		0 0000			5	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	50
Styrene	STY	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1 1 2 2-Tetrachloroethane	PCA	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Tetrachloroethene	PCE	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Toluene	BZME	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1,1,1-Trichloroethane	TCA111	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
1,1 2-Trichloroethane	TCA112	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Trichloroethene	TCE	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Vinyl acetate	VA	F		0 0000			10	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	50
Vinyl chloride	VC	F		0 0000			2	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	10
Xylenes	XYLENES	F		0 0000			1	0	PR	U	ND	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	5
Dibromofluoromethane (SS)	DBFM	T		100	76	114		107	PR		%	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED8	T		100	88	110		97 7	PR		%	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		89 7	PR		%	UG/L	02-Apr-96	1645	02-Apr-96	1701	SW5030	SW8240	5971	03-22-96	

Chase A Thibodaux
Laboratory Manager

Certes
Environmental Laboratories, L.C.
2209 Wisconsin Street, Suite 200
Dallas, Texas 75229
214-620-7966
800-394-2872
214-620-7963 FAX

CERTES ENVIRONMENTAL LABORATORIES
ANALYTICAL REPORT

CEL #: 96-0721

Project #: 10K70200

JACOBS ENGINEERING GROUP, INC.
600 Seventeenth St., Ste 1100N
Denver, CO 80202

Attn: Lynn Schuetter

Date: August 5, 1996

Included are the results for the samples submitted to Certes. All testing was performed using approved EPA Methods, unless otherwise stated. All results have been reviewed and Quality Control criteria met. If you have any questions concerning the analytical data please contact Chase A. Thibodaux, Laboratory Manager, at 214/620-7966. Thank you for the opportunity to service your environmental testing needs.

Sincerely,
Certes Environmental Laboratories, L.C.
Per:

Chase A. Thibodaux

Chase A. Thibodaux
Laboratory Manager

CLIENT: JACOBS ENGINEERING GROUP, INC.

REPORT#: 96-0721

CASE NARRATIVE

1. Soil samples submitted for EPA Method under batch number 96S19 were run 4/04/96. The corresponding Quality Control data was run 4/03/96.

2. The water samples to be run for EPA Method 8240 under batch 96W18 were analyzed 4/05/96 with the associated Quality Control data run 4/02/96. Furthermore, the Quality control samples were not spiked with the full list of compounds, but only a subset.

3. Soil samples submitted for the EPA Method 8270 under batch SVS70 were run 4/04/96 and the corresponding spiked Quality Control samples were spiked with only 11 compounds and not the full list.

CLIENT: JACOBS ENGINEERING GROUP. INC.

REPORT #: 96-0721

Cross Reference Table I

Field Sample ID	Laboratory ID
CR-A 151601	96-0721-01
CR-A 151602	96-0721-02
CR-A 151603	96-0721-03
CR-A 151604	96-0721-04
CR-A 151605	96-0721-05
CR-A 151606	96-0721-06
CR-A 151607	96-0721-07
CR-A 151608	96-0721-08
CR-A 151609	96-0721-09

CLIENT: JACOBS ENGINEERING GROUP. INC.

REPORT #: 96-0721

Cross Reference Table II

Field Sample ID	QC Laboratory ID
CR-A 151602	96-0721-02MS1
CR-A 151602	96-0271-02SD1
CR-A 151404	96-0711-25MS1
CR-A 151404	96-0711-25SD1
CR-A 151103	96-0711-15MS1
CR-A 151103	96-0711-15SD1
CR-A 151608	96-0721-08MS1
CR-A 151608	96-0721-08SD1
CR-A 151001	96-0711-01SD1
CR-A 151001	96-0711-01SD1
CR-A 151701	96-0673-23MS1
CR-A 151701	96-0673-23SD1

615 133

Laboratory ID	CERTES	Date Received	03-Apr-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 151607	Dilution Factor	1
Lab Sample ID	96-0721-07	Total Solids(%)	75 4
Lab Batch No.	S96-27		

BTEX

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Benzene	BZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	09-Apr-96	1440	09-Apr-96	1457	SW5030	SW8020	GC3	02-20-96	2
Toluene	BZME	F		0 0000	0 4	0	PR	U	ND	UG/KG	09-Apr-96	1440	09-Apr-96	1457	SW5030	SW8020	GC3	02-20-96	2
Ethylbenzene	EBZ	F		0 0000	0 4	0	PR	U	ND	UG/KG	09-Apr-96	1440	09-Apr-96	1457	SW5030	SW8020	GC3	02-20-96	2
Xylenes	XYLENES	F		0 0000	0 4	0	PR	U	ND	UG/KG	09-Apr-96	1440	09-Apr-96	1457	SW5030	SW8020	GC3	02-20-96	2

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	03-Apr-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 151607	Dilution Factor	1
Lab Sample ID	96-0721-07	Total Solids(%)	75 4
Lab Batch No.	96S19		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			0 01	0 016	PR	J	TR	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 1
Benzene	BZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Bromodichloromethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Bromoform	TBME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0.005
Bromomethane	BRME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 01
2-Butanone	MEK	F		0 0000			0 005	0 023	PR	J	TR	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 05
Carbon disulfide	CDS	F		0 0000			0 01	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Carbon tetrachloride	CTCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Chlorobenzene	CLBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Chlorodibromomethane	BDCME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Chloroethane	CLEA	F		0 0000			0 002	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 01
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			0 005	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 01
Chloroform	TCLME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Chloromethane	CLME	F		0 0000			0 002	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 01
1,1-Dichloroethane	DCA11	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloroethane	DCA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1,1-Dichloroethene	DCE11	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
trans-1, 2-Dichloroethene	DCE12T	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1,2-Dichloropropane	DCPA12	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
cis-1 3-Dichloropropene	DCP13C	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
trans-1, 3-Dichloropropene	DCP13T	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Ethylbenzene	EBZ	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
2-Hexanone	HXO2	F		0 0000			0 006	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 05
Methylene chloride	MTLNCL	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
4-Methyl-2-pentanone	MIBK	F		0 0000			0 005	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 05
Styrene	STY	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1 1,2 2-Tetrachloroethane	PCA	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Tetrachloroethene	PCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Toluene	BZME	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1,1 1-Trichloroethane	TCA111	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
1,1,2-Trichloroethane	TCA112	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Trichloroethene	TCE	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Vinyl acetate	VA	F		0 0000			0 01	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 05
Vinyl chloride	VC	F		0 0000			0 002	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 01
Xylenes	XYLENES	F		0 0000			0 001	0	PR	U	ND	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	0 005
Dibromofluoromethane (SS)	DBFM	T		100	78	114		109	PR		%	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	BZMED8	T		100	88	110		96 6	PR		%	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		93 0	PR		%	MG/KG	04-Apr-96	1330	04-Apr-96	1346	SW5030	SW8240	5971	03-22-96	

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	03-Apr-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 151608	Dilution Factor	1
Lab Sample ID	96-0721-08	Total Solids(%)	82 4
Lab Batch No	S-0439		

Total Petroleum Hydrocarbons

Compound	Analyte Code	S	QC	Spike Level	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	POL
TPH	PHC	F		0 0000	3 9	5 01	PR	J	TR	MG/KG	08-Apr-96	1300	08-Apr-96	1330	SW3550	E418 1	IR	04-08-96	10

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTE5	Date Received	03-Apr-96
Project No	10K70200	Matrix/Basis	S/D
Client ID	CR-A 151608	Dilution Factor	1
Lab Sample ID	96-0721-08	Total Solids(%)	62 4
Lab Batch No.	SV571		

SemiVolatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level			Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acenaphthene	ACNP	F		0 0000			35	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Acenaphthylene	ACNPY	F		0 0000			35	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Anthracene	ANTH	F		0 0000			38	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzo(a)anthracene	BZAA	F		0 0000			26 1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzo(a)pyrene	BZAP	F		0 0000			41 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzo(b)fluoranthene	BZBF	F		0 0000			33 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzo(g h,i)perylene	BZGHIP	F		0 0000			54 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzo(k)fluoranthene	BZKF	F		0 0000			86 5	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Benzoic acid	BZACID	F		0 0000			59 1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
Benzyl alcohol	BZLAL	F		0 0000			47 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	660
bis(2-Chloroethoxy)methane	BECEM	F		0 0000			43 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroethyl)ether	BIS2CEE	F		0 0000			51 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
bis(2-Chloroisopropyl)ether	BIS2CIE	F		0 0000			55 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
bis(2-Ethylhexyl)phthalate	BIS2EHP	F		0 0000			92.4	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
4-Bromophenyl-phenyl ether	BPPE4	F		0 0000			33 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Butylbenzylphthalate	BBP	F		0 0000			39 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
4-Chloro-3-methylphenol	C4M3PH	F		0 0000			46 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	660
4-Chloroaniline	CLANIL4	F		0 0000			53 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	660
2-Chlorophenol	CLPH2	F		0 0000			57 1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
4-Chlorophenyl-phenyl ether	CPPE4	F		0 0000			35 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Chloronaphthalene	CNPH2	F		0 0000			29	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Chrysene	CHRY5ENE	F		0 0000			32	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Di-n-butylphthalate	DNBP	F		0 0000			55 1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Di-n-octylphthalate	DNOP	F		0 0000			57 1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Dibenzo(a,h)anthracene	DBZAHP	F		0 0000			50 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Dibenzofuran	DBF	F		0 0000			37 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
1 2-Dichlorobenzene	DCBZ12	F		0 0000			51 5	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
1,3-Dichlorobenzene	DCBZ13	F		0 0000			52.1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
1,4-Dichlorobenzene	DCBZ14	F		0 0000			52 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
3,3 -Dichlorobenzidine	DBZD33	F		0 0000			61 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	660
2,4-Dichlorophenol	DCP24	F		0 0000			52 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Diethylphthalate	DEPH	F		0 0000			47 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2 4-Dimethylphenol	DMP24	F		0 0000			43 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Dimethylphthalate	DMPH	F		0 0000			36 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2 6-Dinitrotoluene	DNT26	F		0 0000			36	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2 4-Dinitrophenol	DNP24	F		0 0000			39 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
4 6-Dinitro-2-methylphenol	DN46M	F		0 0000			50 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW827D	5972	03-19-96	1650
2,4-Dinitrotoluene	DNT24	F		0 0000			32 7	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Fluoranthene	FLA	F		0 0000			40 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Fluorene	FL	F		0 0000			35 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Hexachlorobenzene	HCLBZ	F		0 0000			33	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Hexachlorobutadiene	HCBU	F		0 0000			47 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Hexachlorocyclopentadiene	HCCP	F		0 0000			61 4	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Hexachloroethane	HCLEA	F		0 0000			46 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Indeno(1,2,3-cd)pyrene	INP123	F		0 0000			54 5	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Isophorone	ISOP	F		0 0000			47 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Methylnaphthalene	MTNPH2	F		0 0000			48 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Methylphenol	MEPH2	F		0 0000			52 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
4-Methylphenol	MEPH4	F		0 0000			54 8	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
N-Nitroso-di-n-propylamine	NNSPR	F		0 0000			55 4	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
N-Nitrosodiphenylamine	NNSPH	F		0 0000			38	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Naphthalene	NAPH	F		0 0000			39 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Nitroaniline	NO2ANIL2	F		0 0000			38 3	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
4-Nitroaniline	NO2ANIL4	F		0 0000			73 6	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
3-Nitroaniline	NO2ANIL3	F		0 0000			43.9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
Nitrobenzene	NO2BZ	F		0 0000			49 5	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Nitrophenol	NTPH2	F		0 0000			46 5	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
4-Nitrophenol	NTPH4	F		0 0000			39 9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
Pentachlorophenol	PCP	F		0 0000			53.1	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	1650
Phenanthrene	PHAN	F		0 0000			29	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Phenol	PHENOL	F		0 0000			30	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
Pyrene	PYR	F		0 0000			43.9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2,4,5-Trichlorophenol	TCP245	F		0 0000			45 2	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
1,2 4-Trichlorobenzene	TCB124	F		0 0000			42.9	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2,4 6-Trichlorophenol	TCP246	F		0 0000			1 23	0	PR	U	ND	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	330
2-Fluorophenol (SS)	PH2F	T		100	25	121		75.3	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	
Phenol-d5 (SS)	PHD5	T		100	24	113		77 2	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	
Nitrobenzene-d5 (SS)	NO2BZD5	T		100	23	120		69 4	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	
2-Fluorobiphenyl (SS)	PHEN2F	T		100	30	115		78.4	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	
2,4,6-Tribromophenol (SS)	PHEN2BR246	T		100	19	122		79 4	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	
p-Terphenyl-d14 (SS)	PHEND14	T		100	18	137		74 6	PR		%	UG/KG	04-Apr-96	0900	05-Apr-96	1607	SW3550	SW8270	5972	03-19-96	

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	03-Apr-96
Project No.	10K70200	Matrix/Basis	S/D
Client ID	CR-A 151608	Dilution Factor	1
Lab Sample ID	96-0721-06	Total Solids(%)	82 4
Lab Batch No.	1251		

ICP Metals

Compound	Analyte Code	S	QC	Spike Level	Lab MDL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Aluminum	AL	F		0 0000	5	1260	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	50
Antimony	SB	F		0 0000	1	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	40
Arsenic	AS	F		0 0000	3	10 3	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	60
Barium	BA	F		0 0000	0 4	14 8	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	2
Beryllium	BE	F		0 0000	0 06	0 364	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	0 3
Cadmium	CD	F		0 0000	0 9	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	4
Calcium	CA	F		0 0000	2	5300	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	10
Chromium	CR	F		0 0000	1	4 49	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	7
Cobalt	CO	F		0 0000	1	4 98	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	7
Copper	CU	F		0 0000	0 7	3.76	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	6
Iron	FE	F		0 0000	1	6260	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	7
Lead	PB	F		0 0000	3	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	50
Magnesium	MG	F		0 0000	3	290	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	30
Manganese	MN	F		0 0000	0.2	38 5	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	2
Molybdenum	MO	F		0 0000	1	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	8
Nickel	NI	F		0 0000	1	7 52	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	15
Potassium	K	F		0 0000	100	233	PR	J	TR	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	500
Selenium	SE	F		0 0000	4	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	80
Silver	AG	F		0 0000	1	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	7
Sodium	NA	F		0 0000	5	40 4	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	30
Thallium	TL	F		0 0000	4	0	PR	U	ND	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	40
Vanadium	V	F		0 0000	0 8	28 4	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	8
Zinc	ZN	F		0 0000	0 2	27 6	PR		=	MG/KG	04-Apr-96	0900	09-Apr-96	0915	SW3050	SW6010	TJA	04-09-96	2

Chase A. Thibodaux
Laboratory Manager

Laboratory ID	CERTES	Date Received	03-Apr-96
Project No	10K70200	Matrix/Basis	W/X
Client ID	CR-A 151609	Dilution Factor	1
Lab Sample ID	96-0721-09	Total Solids(%)	N/A
Lab Batch No.	96W18		

Volatile Organic Compounds

Compound	Analyte Code	S	QC	Spike Level	CL MIN	CL MAX	Lab DL	Results	PV CC	Lab Q	Par Q	Units	Date Extr	Time Extr	Date Anly	Time Anly	Prep Meth	Anly Meth	Inst ID	CAL	PQL
Acetone	ACE	F		0 0000			10	9 8	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	100
Benzene	BZ	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Bromodichloromethane	BDCME	F		0 0000			2	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Bromoform	TBME	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Bromomethane	BRME	F		0 0000			2	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	10
2-Butanone	MEK	F		0 0000			6	6 39	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	50
Carbon disulfide	CDS	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Carbon tetrachloride	CTCL	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Chlorobenzene	CLBZ	F		0 0000			1	1 08	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Chlorodibromomethane	BDCME	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Chloroethane	CLEA	F		0 0000			2	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	10
2-Chloroethyl vinyl ether	CEVETH	F		0 0000			5	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	10
Chloroform	TCLME	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Chloromethane	CLME	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	10
1,1-Dichloroethane	DCA11	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1,2-Dichloroethane	DCA12	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1,1-Dichloroethene	DCE11	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
cis-1, 2-Dichloroethene	DCE12C	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
trans-1, 2-Dichloroethene	DCE12T	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1 2-Dichloropropane	DCPA12	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
cis-1 3-Dichloropropene	DCP13C	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
trans-1, 3-Dichloropropene	DCP13T	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Ethylbenzene	EBZ	F		0 0000			1	1 11	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
2-Hexanone	HXO2	F		0 0000			6	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	50
Methylene chloride	MTLNCL	F		0 0000			3	2.52	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
4-Methyl-2-pentanone	MIBK	F		0 0000			5	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	50
Styrene	STY	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1,1,2,2-Tetrachloroethane	PCA	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Tetrachloroethene	PCE	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Toluene	BZME	F		0 0000			1	1 63	PR	J	TR	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1 1 1-Trichloroethane	TCA111	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
1 1 2-Trichloroethane	TCA112	F		0 0000			2	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Trichloroethene	TCE	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Vinyl acetate	VA	F		0 0000			10	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	50
Vinyl chloride	VC	F		0 0000			2	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	10
Xylenes	XYLENES	F		0 0000			1	0	PR	U	ND	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	5
Dibromofluoromethane (SS)	DBFM	T		100	76	114		110	PR		%	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	
Toluene-d8 (SS)	8ZMED8	T		100	88	110		98 2	PR		%	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	
Bromofluorobenzene (SS)	BR4FBZ	T		100	86	115		92 7	PR		%	UG/L	05-Apr-96	1055	05-Apr-96	1111	SW5030	SW8240	5971	03-22-96	

Chase A. Thibodaux
Laboratory Manager

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