

SCS ENGINEERS

February 11, 2009
File No. 10204058.25

Mr. Chad Lapora
City of Tucson Environmental Services
100 North Stone Avenue, 2nd Floor
Tucson, Arizona 85701

Subject: Underground Storage Tank Closure Report
 Pennington Triangle Property (APN 117-06-083A)
 126 North 6th Avenue
 Tucson, Arizona

Dear Mr. Lapora:

This letter report summarizes permanent closure of one approximately 1,000-gallon underground storage tank (UST) at the Pennington Triangle Property at 126 North 6th Avenue in Tucson, Arizona. In addition to the UST, two approximately 20-gallon cylinders were removed. Soil samples were collected following removal activities to assess the presence of residual contamination, if any. The property is bounded by 6th and Toole Avenues and Pennington Street in downtown Tucson.

SCS Engineers (SCS) provided oversight of removal activities. Southwest Hazard Control (SHC) performed excavation, removal, transportation, and disposal of the UST, piping, and cylinders, and backfilling of the excavations. SHC also obtained the necessary permits and coordinated activities with the City of Tucson Fire Department (TFD).

A Site Location Map, UST Location Map, and Sample Location Map are provided as Figures 1, 2, and 3 in Attachment 1. Site photographs are included in Attachment 2. A copy of the City of Tucson Fire Department UST closure report is included in Attachment 3. The ADEQ *Notification for Underground Storage Tanks Form* is included in Attachment 4. The ADEQ *Underground Storage Tank (UST) Permanent Closure Assessment Report Form* is included in Attachment 5. Copies of the laboratory analytical reports are included in Attachment 6.

BACKGROUND

Based on a previous Phase I Environmental Site Assessment (ESA) performed by SCS dated December 3, 2008, the southwest portion of the site was formerly occupied by an auto service station from approximately 1929 to 1953; a canopy structure was located in the southwest portion of the station area. A geophysical survey of the site performed in 1997 showed a metallic anomaly in the central portion of the former service station area. At the time of the current investigation, the site was vacant of structures and was paved with asphalt and concrete, except for an unpaved area where a former bus stop shelter had been removed.



UST REMOVAL ACTIVITIES

Ms. Patricia Hartshorne, RG of SCS observed excavation activities at the location of the geophysical anomaly beginning on January 14, 2009. Zonge Engineering & Research Organization, Inc. had marked the location of the geophysical anomaly prior to the beginning of fieldwork. SHC used a power saw to cut through the asphalt pavement, which was several layers thick; a concrete slab was located beneath the asphalt in the west end of the excavation at the approximate location of the former canopy structure. SHC performed excavations using a John Deere 310G backhoe and loader. Numerous old utility pipelines were found in the excavation, which hindered excavation. Two vertical pipes were found that connected to the central and north openings in a UST found at the anomaly location; the pipes extended to the southwest and northwest toward the former canopy area. Upon discovery of the UST, TFD was notified and a representative came to the site to observe activities.

The top of the UST was uncovered and was found to be extremely corroded. Because the UST contained no fluids and due to the amount of holes in the UST, TFD determined that purging of the UST would not be necessary. The top of the UST was approximately 4 feet below ground surface (bgs). The UST was approximately 4 feet in diameter and 10 feet long, with a capacity of approximately 1,000 gallons. SHC cleaned up the site for the day and secured the area with fencing.

On January 15, 2009, the UST was removed from the ground by SHC. Due to its poor condition, the UST split open during removal; a central pipe in the middle of the UST still contained a small amount of fluid that smelled like fuel. The excavated soil was stockpiled on pavement next to the excavation and the removed asphalt and UST were placed in a rolloff bin for disposal. The piping was excavated toward the southwest and northwest. The southwest piping had been disconnected and was plugged with a rag. The northwest piping connected to a pipe that extended north-south in the approximate location of the former canopy. A second north-south trending pipe was also located in this area; these pipes had ends that were capped, and their south ends were in the vicinity of the west end of the southwest piping. The UST piping was coated with corrosion. The piping was removed and placed in a rolloff bin for disposal.

During piping excavation activities, the north wall of the UST excavation partially collapsed, exposing two pairs of vertical piping. Additional excavation in this area uncovered two cylinders that were 2 feet tall and 16 inches diameter, each with a capacity of approximately 20 gallons. The piping from the cylinders appeared to extend toward the former canopy area. Both cylinders were corroded, but each contained several gallons of what appeared to be gasoline. A few gallons of fuel from the west cylinder spilled during removal from the excavation. Additional soil was excavated and placed in a rolloff bin, and the site was secured for the day.

On January 16, 2009, the soil in the UST excavation was overexcavated to approximately 13 feet bgs and placed into a rolloff bin until odors from the spilled fuel were no longer apparent in soil. Excavation to a greater depth was difficult because caliche was observed below approximately 11 feet bgs. Soil in the piping areas was also excavated to depths ranging from 2.5 to 3.5 feet bgs. No odors or staining were observed in the excavation or soil other than that associated with the spilled fuel. Following completion of excavation and sample collection, the excavation was

backfilled the excavated soil that had shown no evidence of odors or staining. The remainder of the excavation was backfilled with clean imported fill soil.

On January 17, 2009, backfilling of the excavation with clean fill was completed. A second exploratory excavation approximately 3 feet deep was performed along the edge of concrete on the north portion of the site where there had been another auto service station; no geophysical anomalies were associated with this facility. A concrete slab more than 1 foot thick was located in the east portion of the excavation and some bricks were located in the west portion of the excavation. No odors or staining were observed in the excavation or in soil that had been removed from the excavation. Since there was no visible contamination, the soil was returned to the excavation once work was finished.

SOIL SAMPLE COLLECTION AND ANALYSIS

Following removal of the UST, cylinders, and piping and excavation of soil from these areas, SCS collected samples of native soil at the base of the UST excavation using the backhoe. Samples from native soil beneath piping and from stockpiled soil in the rolloff bin were collected directly from in-place soil.

- **North and South Ends of the UST Excavation:** One sample was collected from beneath each end of the UST excavation at approximately 13 feet bgs (PT-T1N-13 and PT-T1S-13).
- **Southwest UST Piping:** One soil sample was collected from beneath the west end of the southwest UST piping at approximately 2.5 feet bgs (PT-P1-2.5); the pipe was found to be disconnected and had been plugged with a rag. This area was in the location of the former canopy.
- **West UST Piping:** One soil sample was collected from beneath the central portion of the north-south UST piping in the location of the former canopy, at approximately 3.5 feet bgs (PT-P2-3.5).
- **Northwest UST Piping:** One soil sample was collected from beneath the west end of the northwest UST piping, approximately where it connected to a north-south pipe, at approximately 3 feet bgs (PT-P3-3). This area is in the location of the former canopy.
- **Stockpiled Soil:** One composite soil sample was collected from excavated soil placed into a rolloff bin (PT-RO1-C). This soil included the overexcavated soil from the fuel spill from the 20-gallon cylinder.

Faint petroleum odors were observed at the north end of the UST excavation where the fuel had spilled from the 20-gallon cylinder. No other odors or staining were observed. Field photoionization detector (PID) readings that were measured for each sample location ranged from 1.6 to 4.3 parts per million (ppm), except for the stockpiled soil in the rolloff bin, which was 991 ppm.

Each soil sample was collected directly into a clean decontaminated brass sampling sleeve and sealed with Teflon™, aluminum foil, and plastic end caps. The sample was labeled with a unique identification code indicating the type of sample and location number. The sample was then placed into a sample cooler with ice pending delivery to the laboratory. At the end of the day, the collected samples were transported to Turner Laboratories, Inc. for analysis. The laboratory is certified under Arizona Department of Health Services (ADHS) laboratory license number AZ0066. Chain of custody documentation was maintained.

Samples were analyzed for extractable fuel hydrocarbons (ADHS Method 8015AZ), volatile organic compounds (VOCs; EPA Method 8260B), polynuclear aromatic hydrocarbons (PAHs; EPA Method 8310), and total lead (EPA Method 6010B). This investigation was performed using ADEQ guidelines for gasoline and diesel fuel UST closures.

RESULTS AND CONCLUSIONS

None of the samples contained detectable concentrations of hydrocarbons, VOCs, or PAHs except for the composite sample from the rolloff container. The samples from the rolloff container and from the north end of the UST excavation contained detectable concentrations of lead. The results for samples with detected compounds are summarized in the table below:

Detected Compounds (in mg/kg)	Sample ID		Arizona Soil Remediation Levels (SRLs)			
	PT-T1N-13	PT-RO1-C	RSRL (10 ⁻⁶ Risk)	RSRL (10 ⁻⁵ Risk)	RSRL (Non Carcinogen)	NRSRL
Hydrocarbons: C₆-C₁₀ (Gasoline Range Organics)	<20	23	None	None	None	None
VOCs: Ethylbenzene	<0.050	0.100	None	None	400	400
4-Isopropyltoluene	<0.050	0.052	None	None	None	None
n-Propylbenzene	<0.050	0.070	None	None	240	240
Toluene	<0.050	0.110	None	None	650	650
1,2,4-Trimethylbenzene	<0.050	0.540	None	None	52	70
1,3,5-Trimethylbenzene	<0.050	0.180	None	None	21	70
m,p-Xylene	<0.050	0.480	None	None	None	None
o-Xylene	<0.050	0.230	None	None	None	None
Total Xylenes	<0.050	0.710	None	None	240	420
PAHs: 1-Methylnaphthalene	<0.0038	0.092	None	None	None	None
2-Methylnaphthalene	<0.0038	0.120	None	None	None	None
Naphthalene	<0.0038	0.095	None	None	56	190
Metals: Lead	28	24	None	None	400	800

None of the detected compounds exceeded the Arizona Residential or Non-Residential Soil Remediation Levels (RSRLs or NRSRLs). There are currently no Arizona Soil Remediation Levels (SRLs) for hydrocarbons.

Based on visual observations and laboratory results, there does not appear to have been a release from the UST system. Compounds detected in the sample from the stockpiled soil appear to be a result of a release of fuel from a 20-gallon cylinder as it was removed from the UST excavation.

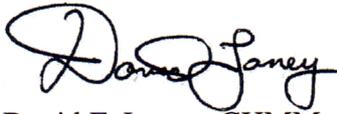
CLOSING

SCS Engineers appreciates the opportunity to assist you with this project. Should you have any questions regarding this report, please contact Ms. Hartshorne at (520) 696-1617.

Sincerely,



Patricia M. Hartshorne, RG
Project Manager



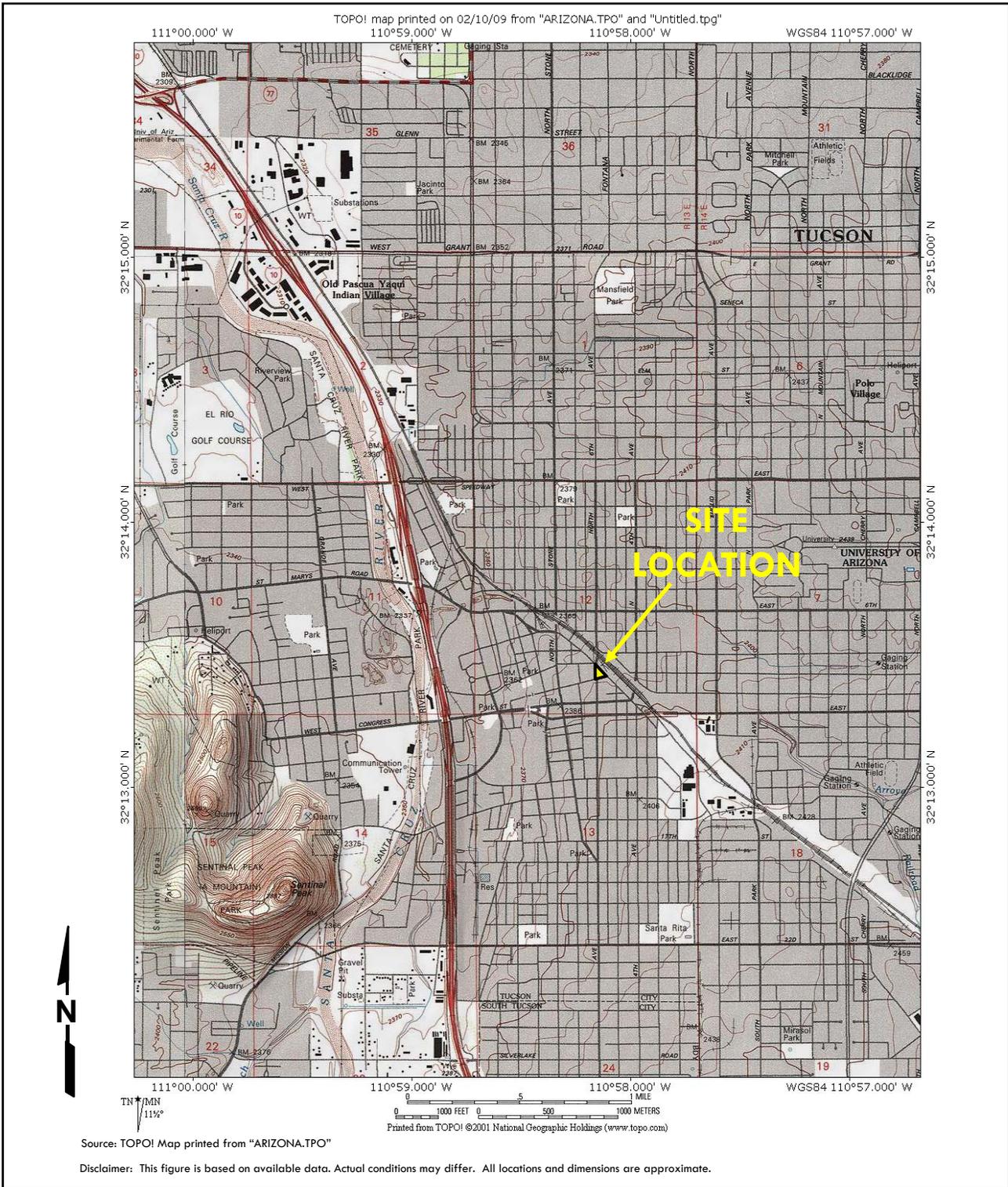
David F. Laney, CHMM
Manager of Environmental Services

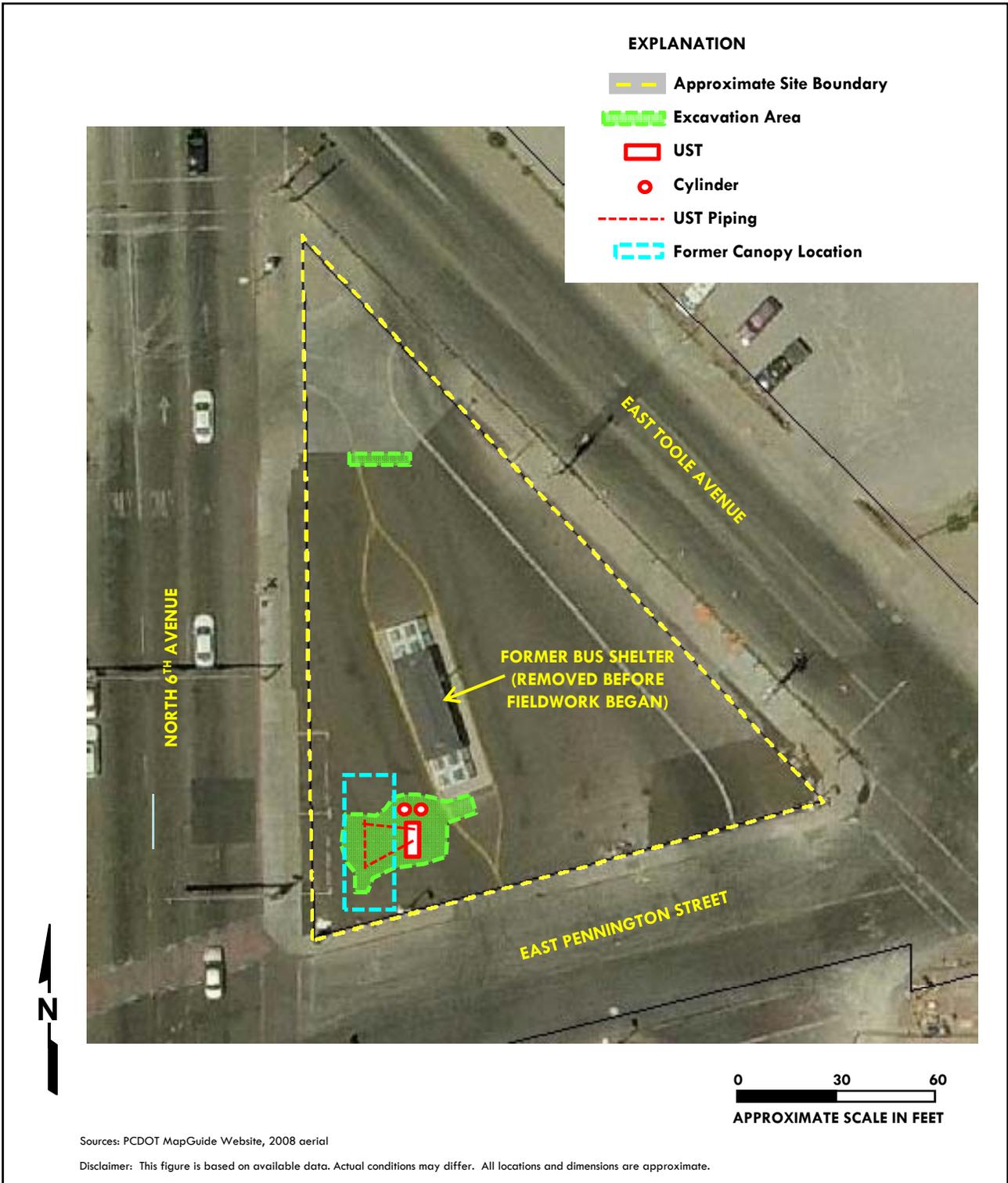
SCS ENGINEERS

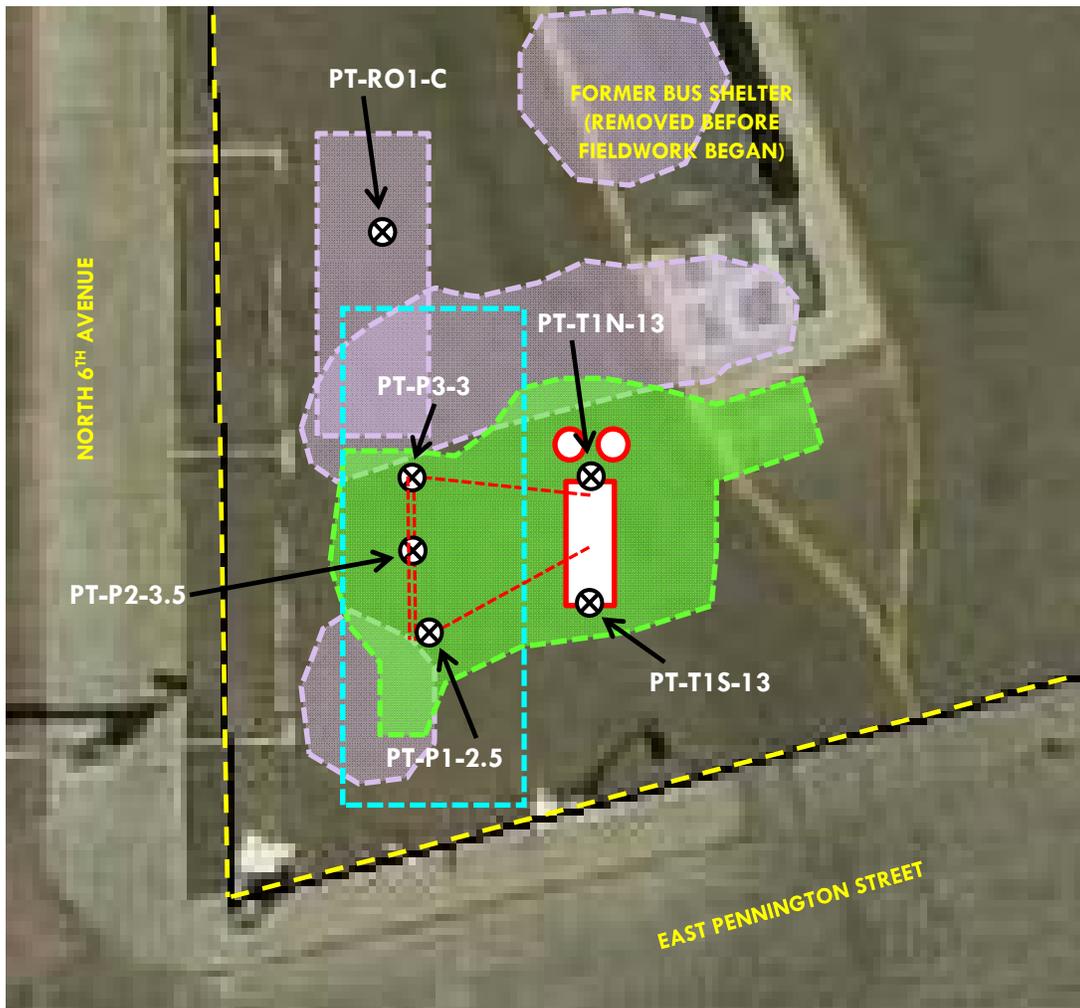


ATTACHMENT 1

FIGURES

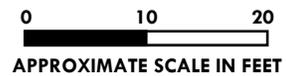






EXPLANATION

- Approximate Site Boundary**
- Excavation Area**
- UST**
- Cylinder**
- UST Piping**
- Sample Location**
- Former Canopy Location**
- Rolloff Bins for Soil**
- Stockpiled Soil**



Sources: PCDOT MapGuide Website, 2008 aerial

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

ATTACHMENT 2
PHOTOGRAPHS



Excavating at geophysical anomaly "A" on the southwest portion of the site.



Exposed top of underground storage tank (UST), two UST product pipes extending to the southwest and northwest, and numerous old utility pipes.



Side view of UST following removal from excavation.



Top view of UST following removal from excavation.



Excavating along area following the southwest UST piping.



End of southwest UST piping was found to be disconnected and plugged with a rag.



View of the north end of the UST excavation while excavating two pairs of vertical pipes that were connected to two buried cylinders.



East buried cylinder and piping for west buried cylinder in the north end of the excavation.



East cylinder following removal from the excavation.



West cylinder following removal from the excavation.



Exposing piping that was apparently formerly under the UST dispenser island.



Completion of UST excavation prior to collecting samples.



UST excavation area following backfilling with clean soil.



Excavating north trench area.



Concrete foundation found in the central portion of the north trench area.



North trench area following backfilling with clean soil.

ATTACHMENT 3

TUCSON FIRE DEPARTMENT UST CLOSURE REPORT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY/TUCSON FIRE DEPARTMENT ON-SITE UNDERGROUND STORAGE TANK CLOSURE REPORT

This Report Does Not Constitute a Site Assessment Required Pursuant to A.R.S. 49-1008 (40 CFR §280.72)
Pursuant to A.R.S. 49-1004, Notify ADEQ Within 24 Hours of a Confirmed or Suspected Release
Tucson Fire Department
Phone No.: (520) 791-4014 • FAX No.: (520) 791-5346
ADEQ UST Phone No.: (602) 207-4261 • ADEQ Watts Line (within Arizona only): 1-800-234-5677

Suspected Contamination [] ADEQ Notified By _____ Date: 1/15/09

A. CLOSURE INFORMATION

Permit No.: _____ ADEQ Closure No.: _____ Date of Closure: 1/15/09

Type of Closure: Temporary: [] Permanent: How Closed: Removed: Permanent: []

Facility Name: PENNINGTON TRIANGLE PROPERTY Owners Name: CITY OF TUCSON
 Type of Facility: PARKING LOT Phone #: NONE Phone #: 520-791-5414
 Street Address: 126 N 6TH AVE Street Address: 100 N STONE AVE, 2ND FL
 City: TUCSON State: AZ Zip: 85701 City: TUCSON State: AZ Zip: 85701

Contractor: SOUTHWEST HAZARD CONTROL Contact Name: JIM SANTINO Cert. #: D00037
 License No.: 079036 Type of License: A AE B-1 B-2 L-37 L-5 Other: _____ Phone #: 520-622-3607

Laboratory: TURNER Contact Name: SHARI BAUMAN Lab #: AZ0066 Phone #: 520-882-5880

Consultant: SCS ENGINEERS Contact Name: PAT HARTSHORNE Phone #: 520-696-1617

B. INSPECTION INFORMATION

Purge Insp. Date: ___/___/___ Time: _____ Hrs.
 Repurge: [] Yes [] No Date: ___/___/___ Time: _____
 Purge Inspection Total Time: _____ Hrs.
 Amount Carbon Dioxide Gas Used: _____ lbs.
 Amount Dry Ice Used _____ lbs.
 Tank Capacity ~1,000 Gals. (16 lbs./1,000 gals Min.)
 Oxygen Percentage After Purge: _____ %
 Removal Inspection Total Time: _____ Hrs.

C. SAMPLING INFORMATION

Number of Samples Obtained Below Tank(s): 2
 Sample Collection Depth Below Tank(s): 13' bgs
 Number of Samples Obtained Along Piping: 3
 Time Between Removal and Sampling: 2-24 hours
 Sample Preservation Method: ICE
 Water in Excavation Sampled: [] Yes [] No N/A

D. TANK ABANDONED IN PLACE

Reason for Abandonment in Place

[] Under Permanent Structure NA

[] Removal will Undermine Structure

[] Inaccessible to Heavy Equipment

[] Other _____

Tank and Piping Cleaned Before Filling: [] Yes [] No

Fill Material (check one)

[] Soil Slurry NA

[] Concrete

[] Other

[] All Piping and Vents Removed: [] Yes [] No

E. TANK INFORMATION

Tank No.	Size (gallons)	Material of Construction	Contents Stores	Holes in Tank (show location on sketch)	Holes in Piping (show location on sketch)
<u>1</u>	<u>~1,000</u>	<u>steel</u>	<u>Empty</u>	<u>Numerous, corroded</u>	
<u>2</u>	<u>~30</u>	<u>steel</u>	<u>Liquid-gas?</u>	<u>Thick corrosion layer</u>	
<u>3</u>	<u>~30</u>	<u>steel</u>	<u>Liquid-gas?</u>	<u>" " "</u>	

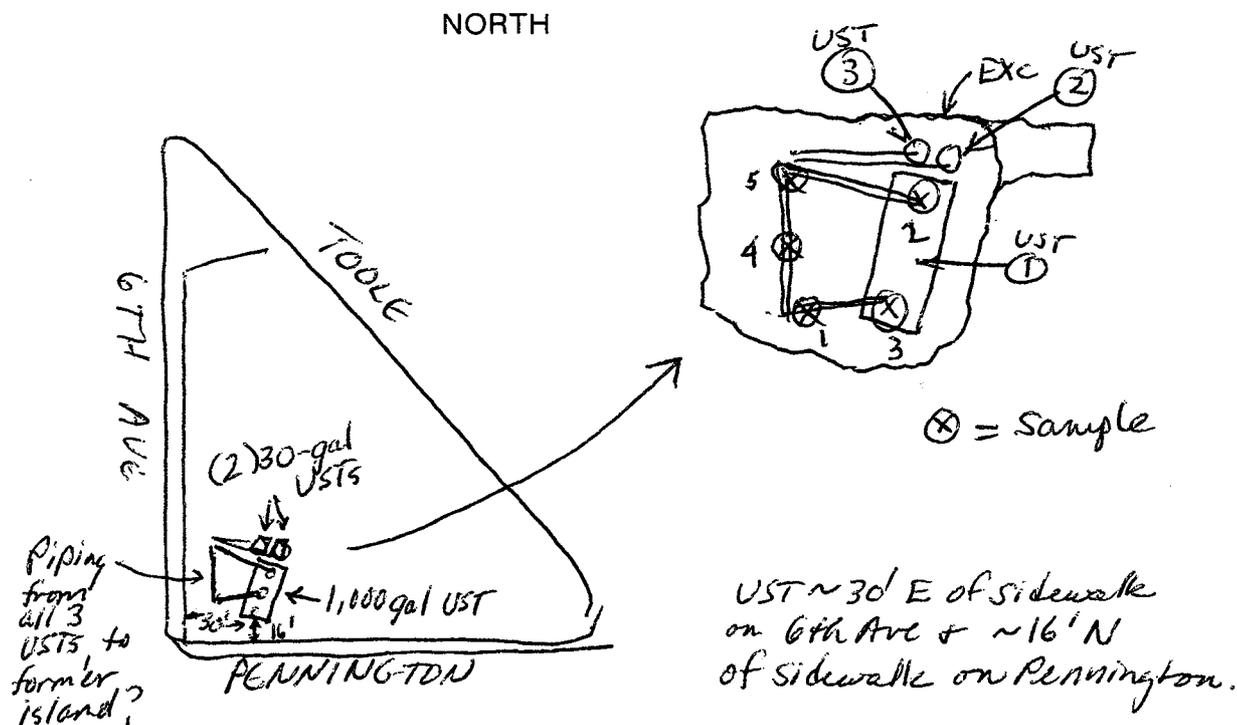
ON-SITE UNDERGROUND STORAGE TANK CLOSURE REPORT

Continued . . .

F. VISUAL EXCAVATION ASSESSMENT

Stained Soil (show location on sketch):	Yes []	No [X]	Depth of Excavation: <u>8' bgs (Tank bottom)</u>
Petroleum Odor In Soil:	Yes []	No [X]	Depth to Groundwater: <u>perched ~ 80'</u>
Free Water In Excavation:	Yes []	No [X]	Soil Type(s):
Sheen or Free Product On Water:	Yes []	No [X]	[] Fill [] Clay [X] Sand
Evidence of Spills and/or Overfills:	Yes []	No [X]	[] Caliche [] Cobbles [] Gravel

G. SITE SKETCH



= Visible Contamination
X = Soil Sample Location

H. COMMENTS

Disposition of Tank(s)

A copy of lab soil sample results shall be sent to TFD.

Inspector's Signature: [Signature] #34765 Date: ___/___/___

Copy Received By: [Signature] Representing: Southwest Hazard Control Date: 1/15/09

ATTACHMENT 4

ADEQ NOTIFICATION FOR UNDERGROUND STORAGE TANKS
FORM

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Tank Programs Division

STATE USE ONLY

Facility ID No _____
 Owner ID No _____
 Reviewer/s Initial _____
 Data Entry Initial _____
 Date Entered _____

1110 West Washington Street, Phoenix, Arizona 85007
 (602) 771-4316 c (800) 234-5677, extension 771-4316



NOTIFICATION FOR UNDERGROUND STORAGE TANKS FORM

(PLEASE TYPE OR PRINT IN BLACK INK)

1a. TYPE OF NOTIFICATION (Please check one box and describe the specific reason(s) for this Notification in 1b)

New Facility Amendment of Previous Notification Closure at a Facility

1b. DESCRIBE (e.g. change of contact info, address change, etc.):

2. OWNERSHIP INFORMATION (Mark as appropriate)

UST Owner Property Owner Other
 Date became UST Owner: **2005**

Owner Name: **City of Tucson**

Name of Contact Person: **Lynne Birkinbine**

Telephone/Fax Number/Email Address: **520-791-5414**

Mailing Address: **100 North Stone Ave, 2nd Floor**

City: **Tucson** State: **AZ** Zip Code: **85701**

3. OPERATOR INFORMATION

Date became UST Operator: **Not Applicable**

Person or Business Name:

Name of Contact Person:

Telephone/Fax Number/Email Address:

Mailing Address:

City: State: Zip Code:

¹ If you are not the "Tank Owner" or "Property Owner" but hold "Indicia of Ownership" or a "Fiduciary" pursuant to Arizona Revised Statutes (A.R.S.) § 49-1001.01, mark "Other" in Part 2 and describe the type of relationship to the UST(s) in Part 5.

4. LOCATION OF UNDERGROUND STORAGE TANKS (UST) FACILITY (physical location)

Facility Name: **Pennington Triangle Lot**

Street Address: **126 North Stone Avenue**

City	Tucson	Arizona (ZIP)	85701		Parcel No.	117	06	083A
County	Pima	Township	14S	Range	13E	Section		12
Latitude	32 °	13 '	25.45 " N	Longitude	110 °	58 '	05.98" W	

Contact Person's Name: **Lynne Birkinbine, COT**

Telephone Number: **520-791-5414**

Email: **Lynne.Birkinbine@tucsonaz.gov**

Direction to the Facility: (from the nearest city, roads, streets, highways): **Property bounded by 6th and Toole Avenues and Pennington Street in downtown Tucson, AZ**

5. TYPE OF OWNER (mark all that apply)

COMMERCIAL FEDERAL GOVERNMENT INDIAN COUNTRY LOCAL GOVERNMENT
 PRIVATE STATE GOVERNMENT OTHER (please describe) _____

6. TYPE OF FACILITY (mark all that apply)

AIRPORT FARM GAS STATION HOSPITAL
 INDUSTRY/FACTORY LOCAL GOVERNMENT PETROLEUM DISTRIBUTOR
 RESIDENTIAL RAILROAD UTILITY
 OTHER (Please Specify) **Parking lot/former bus shelter**

7. FINANCIAL RESPONSIBILITY REQUIREMENTS² - Mark the boxes which describe the financial assurance mechanisms used.

COMMERCIAL INSURANCE GUARANTEE LETTER OF CREDIT RISK RETENTION GROUP SELF-INSURANCE
 SURETY BOND TRUST FUND OTHER METHOD ALLOWED (specify): _____

² Submit necessary documentation in support of the financial assurance indicated above.

8. UNDERGROUND STORAGE TANK SYSTEM							
Description of system and usage information							
TANK IDENTIFICATION NUMBER (e.g. 1, 2, 3, etc.)	1						
a) Number of compartments in tank	1						
b) Date of tank installation	~1929						
c) Date tank was placed in operation	~1929						
d) Total capacity (gallons)	1,000						
e) Substance currently or last stored							
Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxygenated Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E-85	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biodiesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jet Fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solvent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antifreeze/Ethylene Glycol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	X						
9. TANK							
Material and structural arrangement (mark all that apply)							
a. Steel Tank:	Single-walled	X	<input type="checkbox"/>				
	Double-walled	<input type="checkbox"/>					
b. Fiberglass Tank:	Single-walled	<input type="checkbox"/>					
	Double-walled	<input type="checkbox"/>					
c. Composite (steel/fiberglass)		<input type="checkbox"/>					
d. Other (describe):		<input type="checkbox"/>					
e. Unknown		<input type="checkbox"/>					
10. TANK CORROSION PROTECTION							
(Mark all that apply if corrosion protection needed)							
	Cathodically protected steel	<input type="checkbox"/>					
	Type of Cathodic Protection (Indicate if Sacrificial Anode or Impressed Current)						
	Dates Installed						
	Lined interior (for upgraded UST Systems only)	<input type="checkbox"/>					
	Dates Lined						
	Polyethylene tank jacket	<input type="checkbox"/>					
	Additional corrosion protection not required	<input type="checkbox"/>					
	If tank was repaired, indicate date of last repair						

11. PRODUCT PIPING													
Material and construction type (mark all that apply)													
Tank Identification Number from Section 8		1											
a. Fiberglass reinforced plastic:		<input type="checkbox"/>											
Single-walled		<input type="checkbox"/>											
Double-walled		<input type="checkbox"/>											
b. Steel:		<input type="checkbox"/>											
Galvanized Steel		<input type="checkbox"/>											
Bare Steel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Single-walled		<input type="checkbox"/>											
Cathodically protected		<input type="checkbox"/>											
Secondary Containment		<input type="checkbox"/>											
c. Flexible Piping		<input type="checkbox"/>											
d. Unknown		<input type="checkbox"/>											
e. Other (please specify)													
12. PRODUCT PIPING													
Application type (mark only one)													
Pressure		<input type="checkbox"/>											
Suction – check valve at the dispenser		<input type="checkbox"/>											
Suction – check valve at the tank top		<input type="checkbox"/>											
Suction - foot valve inside the tank		<input type="checkbox"/>											
Gravity feed		<input type="checkbox"/>											
If piping was repaired, indicate date of last repair													
13. RELEASE DETECTION OF TANKS/PIPING													
(mark all that apply)													
Tank Identification Number from Section 8		1											
		Tank	Pipe										
Manual tank gauging (tanks of 550 gallons or less)		<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Tank tightness testing with manual gauging (tanks of 550 through 2000 gallons)		<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Tank tightness testing with inventory controls		<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Automatic tank gauging		<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Vapor monitoring		<input type="checkbox"/>											
Groundwater monitoring		<input type="checkbox"/>											
Interstitial monitoring (double-walled tank/piping)		<input type="checkbox"/>											
Interstitial monitoring (secondary containment)		<input type="checkbox"/>											
Automatic line leak detector		<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Line tightness testing		<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Please specify other methods allowed by ADEQ (e.g. SIR)													
EMERGENCY GENERATOR (Mark box if tank stores fuel solely for use by an emergency power generator)		<input type="checkbox"/>											

14.	TANK STATUS
------------	--------------------

Tank Identification Number from Section 8	1					
a) Currently in use	<input type="checkbox"/>					
b) Temporary closure of tank	<input type="checkbox"/>					
1. Date of temporary closure						
2. Tank emptied to less than 1" of product?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
3. Release detection maintained?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4. Cathodic protection maintained?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
5. Requested to extend temporary closure beyond 12 months?	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA
6. Site assessment completed?	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA	Yes/No/NA
7. Has the extension request been approved?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
c) Permanent closure of tank	X	<input type="checkbox"/>				
1. Date the tank was last used	1940s or 1950s					
2. Date of closure by removal from ground	1/15/09					
3. Date of closure in ground						
4. Closure site assessment completed?	Yes	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
d) Change-in-Service	<input type="checkbox"/>					
1. Date of change-in-service						
2. Closure site assessment completed?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

The space below is provided for your comments and explanation:

The UST aboveground systems (e.g., dispensers) were removed from this site in the 1950s. When the UST was excavated on January 15, 2009, it was found to be severely corroded and fell apart upon removal. Some associated piping was found, and although corroded, was in better condition than the UST. Also found buried immediately north of the UST were two 20-gallon cylinders and associated piping containing apparent gasoline. One of these cylinders spilled a few gallons of gasoline onto the excavation floor during removal. The soil was overexcavated and placed into a rolloff bin as PCS and was sampled. There were no indications of a release from the UST or piping and no soil staining was observed in the excavation.

15.	CERTIFICATION
------------	----------------------

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

Printed Name and Official Title of Owner or Owner's Authorized Representative	Signature	Date Signed

16. INSTALLATION INFORMATION & CERTIFICATION

(to be completed by ADEQ-certified Service Provider)

Tank Identification Number from Section 8						
a) Installation (mark all that apply)						
(1) Installer certified by tank and piping manufacturers	<input type="checkbox"/>					
(2) Installation inspected by an ADEQ-certified installer	<input type="checkbox"/>					
(3) Manufacturer's installation checklists have been completed	<input type="checkbox"/>					
(4) Another method allowed by ADEQ (please specify)	<input type="checkbox"/>					
b) Spill and Overfill protection						
(1) Spill device installed	<input type="checkbox"/>					
Date installed						
(2) Type of Overfill device installed						
Overfill Activation Level						
Date installed						
c) Release Detection installed						
Date installed	<input type="checkbox"/>					
d) Corrosion Protection (CP) installed						
Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Impressed Current (IC)	Tank (T), Piping (P),	T/P/FC	T/P/FC	T/P/FC	T/P/FC	T/P/FC
Sacrificial Anode (SA)	Flexible Connector (FC)	IC/SA	IC/SA	IC/SA	IC/SA	IC/SA
Date Installed						

CERTIFICATION: I certify under penalty of State law that the information contained in this section is true to the best of my belief and knowledge.

INSTALLER
 VERIFIER
 SPILL PROTECTION
 OVERFILL PROTECTION
 CORROSION PROTECTION
 I am a Tank Service Provider Certified by ADEQ. My ADEQ Certification No. is: _____ Expires On: _____

Signature		Title		Date	
Name		Company Name			

INSTALLER
 VERIFIER
 SPILL PROTECTION
 OVERFILL PROTECTION
 CORROSION PROTECTION
 I am a Tank Service Provider Certified by ADEQ. My ADEQ Certification No. is: _____ Expires On: _____

Signature		Title		Date	
Name		Company Name			

INSTALLER
 VERIFIER
 SPILL PROTECTION
 OVERFILL PROTECTION
 CORROSION PROTECTION
 I am a Tank Service Provider Certified by ADEQ. My ADEQ Certification No. is: _____ Expires On: _____

Signature		Title		Date	
Name		Company			

NOTE: Arizona Revised Statutes (A.R.S.), Title 49, Chapter 6, Section 49-1002 requires owners of underground storage tanks (USTs) to notify the Arizona Department of Environmental Quality (ADEQ) of their USTs on forms prescribed by the Department. The Notification for Underground Storage Tank Form is designed to serve two purposes: 1) To register the USTs located at a specific facility, and 2) To inform ADEQ of any changes (amendments) at an UST facility, (e.g. installation, closure, method of release detection, change in ownership or change-in-service). Owners and operators of USTs are required to notify ADEQ of all changes at a facility within thirty (30) days of that change.

PENALTIES: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000.00 for each tank for which notification is not given or for which false information is submitted.

17.

MAP AND DIAGRAM OF THE UST LOCATION

Draw or attach a site map. Include buildings and major cross streets around the facility where the UST system is located. If there are no major streets/roads near the facility (e.g. in a rural area), show the direction to the facility and approximate distance from the nearest street/road/highway or any other landmark.

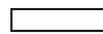
Facility street address: **126 N 6th Avenue** City: **Tucson** **Arizona** **85701** (Zip Code)

Directions to the facility (in rural locations):

SEE ATTACHED FIGURES 1, 2, AND 3



LEGEND: Use all symbols that apply

 Tank  Piping  Fill Tube  Dispensers **U** Groundwater Monitoring
 Manway to Sump  Manway to Automatic Tank Gauging  Vapor Monitoring  Vent Lines

ATTACHMENT 5

ADEQ UST PERMANENT CLOSURE ASSESSMENT REPORT FORM

UNDERGROUND STORAGE TANK (UST) PERMANENT CLOSURE ASSESSMENT REPORT FORM

1. FACILITY NAME: Pennington Triangle Property FACILITY ID No. _____

2a. ADEQ Closure No. _____ 2b. Fire Authority Closure Permit No. _____

3. LOCATION OF TANK(S)

126 North 6th Avenue
Street Address (P.O. Box NOT acceptable)

Tucson AZ 85701
City State Zip Code

Pima
County

T14S R13E Sec. 12, NW ¼ of SW ¼ of SE ¼
Legal Location (Township, Range, Section, Quarter, Quarter, Quarter)

4. OWNERSHIP OF TANK(S)

City of Tucson
Owner Name

Lynne Birkinbine, Environmental Manager
Contact Person Job Title

100 North Stone Avenue, Second Floor
Mailing Address

Tucson AZ 85701
City State Zip Code

(520) 791-5414
Telephone Number (include area code)

5. CONTRACTOR, LABORATORY, AND CONSULTANT INFORMATION

Contractor	Southwest Hazard Control	Phone No.: (520) 622-3607	
Certified Individual	Jim Santino	ADEQ Certification No.: 1042916-U2 (5/22/2008-10/31/2009)	
ROC License No.	O79036	Type of License: A <input type="checkbox"/> B-1 <input type="checkbox"/> B-2 <input type="checkbox"/> L-57 <input type="checkbox"/> L-5 <input type="checkbox"/> Other: _____	
Laboratory Name	Turner Laboratories	ADHS License No.: AZ0066	
Contact Name	Nancy Turner	Phone No.: (520) 882-5880	
Consultant	SCS Engineers	Contact Name: Patricia M. Hartshorne, RG	Phone No.: (520) 696-1617

6. SITE INFORMATION

- a. Number of active tanks* at facility prior to closure or change-in-service (CIS): one
(* Do not include previously closed tanks)
- b. Number of tanks being closed or undergoing a CIS: one
- c. Will new tanks be installed? Yes No
If yes, how many: _____ When? _____
- d. Depth to groundwater (if known): ~66 to 83 ft bgs (perched zone)
Source: ADWR online Fortis imaged database
Date: 1986-2002

7. SITE PREPARATION

- a. Date and time tank(s) emptied of all product and accumulated sludges:
Date: NA Time: NA
- b. Date and time of inerting or purging:
Date: NA Time: NA
- c. Method of inerting or purging: NA
- d. Date of closure or change-in-service:
Date: 1/15/09-1/16/09

8. INERT SOLID MATERIAL USED TO CLOSE TANK IN-PLACE

- Not Applicable – Tank(s) Excavated Not Applicable - CIS
- Sand Foam Concrete Other: _____

9. DIMENSION OF TANK EXCAVATION(S)

- Not Applicable - CIS or in-place closure

<p><u>Excavation I</u></p> <p>Length <u>27</u> Ft Width <u>15</u> Ft Depth <u>13</u> Ft (irregular shaped hole, piping area depth on the west side was only about 2.5 to 3.5 deep)</p> <p><u>Excavation III</u></p> <p>Length <u>NA</u> Ft Width <u>NA</u> Ft Depth <u>NA</u>Ft</p>	<p><u>Excavation II</u></p> <p>Length <u>NA</u> Ft Width <u>NA</u> Ft Depth <u>NA</u>Ft</p> <p><u>Excavation IV</u></p> <p>Length <u>NA</u> Ft Width <u>NA</u> Ft Depth <u>NA</u>Ft</p>
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10. TANK INFORMATION

Table I – Tank(s) undergoing permanent closure

Tank ID No.	Size (gallons)	Material of Construction	Contents Stored	Holes in Tank (yes or no)	Holes in Piping (yes or no)	Proposed unregulated [%] substance
1	1,000	Steel	Unknown (assumed to be gas or diesel fuel)	Yes (very corroded)	No	

[%]Complete only if the tank is undergoing a CIS

11. VISUAL EXCAVATION ASSESSMENT

Did the following conditions exist at the excavation site:

- Stained Soil: Yes No Water in Excavation: Yes No
- Petroleum Odor in Soil: Yes* No Sheen or Free Product on Water: Yes No
 (*odors at north end of excavation area where two 20-gallon cylinders containing gasoline were buried; some of the liquid was spilled during removal of the cylinders)
- Free Product in Excavation: Yes No Evidence of Spill and/or Overfill: Yes No

NOTE: If at any time during the closure or CIS activity, contamination is discovered or believed to have existed, ADEQ must be notified within twenty-four (24) hours of discovery. The release or suspected release should be reported by calling ADEQ call line at 1-800-234-5677, extension 771-4303.

12. SOIL INVESTIGATION PROCEDURES

NOTE: Ensure that all soil sampling equipment has been decontaminated prior to sampling.

- a. Were all soil samples collected by pushing or driving clean sleeves, constructed of an inert material, into the soil contained in the backhoe or trackhoe bucket per the Sampling Guidelines in the *Underground Storage Tank Permanent Closure Guidance Document*? Yes No

If no, describe why not and alternative method used: In addition, trench and stockpile samples were collected by pushing or driving clean sleeves directly into in-place soil or stockpiled soil.

- b. Describe how sleeves were sealed and labeled: The ends of the brass sleeves were covered with Teflon patches, aluminum foil, and tight-fitting plastic end caps. Unique identification numbers were placed on each sample container.
- c. Were all soil samples preserved at approximately 4 degrees Centigrade prior to delivery to the laboratory? Yes No
- d. Do field investigations indicate contamination? Yes No

If yes, what was the methodology used and where were the hot spots located?: _____

- f. Estimated volume of excavated soil (cubic yards): Total excavated was approximately 125 cy. Most of this soil exhibited no odors or staining and was returned to the excavation as backfill. Approximately 20 cubic yards of soil was placed in rolloffs for disposal off site; this soil had been overexcavated following the spill of liquid during removal of the two 20-gallon cylinders.

NOTE: Excavated soil should be tested to determine if it is petroleum-contaminated soil (PCS) that must be disposed properly.

13. SITE MAP (To be provided as an attachment to this report form and prepared to scale)

- a. Are all tanks, dispensers and associated piping shown on the site map? Yes No

If no, describe why not: An auto service station had been located in this area from about 1929-1953, but the buildings and aboveground systems were removed in the early- to mid-1950s and the area was occupied by parking lots and a bus shuttle stop since that time. It is assumed that a former canopy had covered the former dispenser location(s); the approximate location of the canopy is shown.

- b. Are the length, width, depth and location of pipe unions and areas of corrosion for each piping run (trench) shown on map? Yes No

If no, describe why not: Due to the large number of old utility pipes that crossed through the excavation, it was difficult to uncover the UST piping in place. The approximate locations of

the connections between the piping at the assumed dispenser area and the piping attached to the UST were sampled, as well as one additional location in the dispenser area. All the piping contained layers of corrosion.

- c. Are all excavations and stockpiles, including stockpiled Petroleum Contaminated Soil (PCS), shown on the map? Yes No

If no, describe why not: The locations of the stockpiled soil varied as the excavation progressed, and some soil needed to be moved to other areas to allow room for additional excavation. Soil was placed on pavement next to the excavation and was moved when the excavation was expanded. Following a spill of apparent gasoline from the 20-gallon cylinders removed from the excavation, soil was overexcavated from the excavations and placed into rolloff bins. The soil in the rolloff bins was transported off site for disposal and the stockpiled soil that showed no indication of odors or staining was returned to the excavation as backfill.

- d. Are all sampling locations and areas of contamination shown on map? Yes No

If no, describe why not: _____

- e. Are all cross streets and major structures (i.e. buildings) near the excavation zone(s) shown on map? Yes No

If no, describe why not: _____

14. LABORATORY RESULTS

- a. Submit the laboratory analytical results in Table II and Table II (if applicable) following the Sampling Guidelines outlined in the *UST Permanent Closure Guidance Document*.
- b. Identify all samples (including stockpile samples), location of each sample, depth of each sample, soil lithology of each sample and analytical test results of each sample in the table below.
- c. Laboratory Reporting Limits: Indicate reporting limits for range(s) of compounds separately. If non-detected, do not write non-detect or "ND." List the numerical reporting limit, for example, "<0.25 mg/kg."

Table II – Soil Analytical Results

Name of Chemicals sampled & corresponding analytical methods				TPH Method 8015AZ ¹	Benzene	Toluene	Ethyl-Benzene	Xylenes	VOCs ²	PAHs ²	Metals
					← Method 8021 or 8260 →				Method 8260	Method 8310	Method See ³
Laboratory Reporting Limits (mg/kg)				varies	0.050	0.050	0.050	0.20	varies	varies	10
Sample ID #	Location of Sample	Depth (bgs)	Soil Type	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)	mg/kg (ppm)
PT-T1N-13	UST excavation (north)	13	Silty sand	GRO <20 DRO <30 ORO <99 Total <130	<0.050	<0.050	<0.050	<0.20			X
PT-T1S-13	UST excavation (south)	13	Silty sand	GRO <20 DRO <30 ORO <100 Total <130	<0.050	<0.050	<0.050	<0.20			
PT-P1-2.5	Piping (south)	2.5	Silty sand	GRO <20 DRO <30 ORO <100 Total <130	<0.050	<0.050	<0.050	<0.20			
PT-P2-3.5	Piping (middle)	3.5	Silty sand	GRO <20 DRO <30 ORO <100 Total <130	<0.050	<0.050	<0.050	<0.20			
PT-P3-3	Piping (north)	3	Silty sand	GRO <20 DRO <30 ORO <100 Total <130	<0.050	<0.050	<0.050	<0.20			
PT-RO1-C	Stockpile	NA	Silty sand	GRO 23 DRO <30 ORO <100 Total <130	<0.050	<0.050	<0.050	<0.20	X	X	X

mg/kg = milligram per kilogram, bgs = below ground surface, ppm = parts per million, NA = Not applicable

¹Provide a break-down of reporting limits and concentrations of total petroleum hydrocarbons (TPH) as follows: gasoline range, diesel range and oil range.

²If VOCs, PAHs or Metals are detected, use an X to identify the appropriate sample and use Table III to provide analytical data.

³Use EPA 6000/7000 series Test Methods

d. Provide copies of the laboratory results, including Quality Assurance/Quality Control (QA/QC) information and an original, legible chain-of-custody as an attachment to this report form. Refer to ASTM Standard D 4840-88 for chain-of-custody procedures.

e. Holding time (hours): Less than 48 hours - Samples were prepared by the laboratory either the same day they were collected (PT-T1N-13, PT-T1S-13, PT-P2-3.5, PT-P3-3, PT-RO1-C) or the day after they were collected (PT-P1-2.5). NOTE: Soil samples to be analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) or other Volatile Organic Compounds (VOCs) should be extracted within 72 hours of collection. ADEQ may extend the 72 hour limit to 120 hours with site-specific pre-approval. ADEQ may not consider samples exceeding the extraction holding time as valid and may require additional sampling.

f. If an extension to the holding time has been granted by ADEQ, furnish below the date of extension and the name of the person that granted extension:

Date: _____ ADEQ Authorized Representative: _____

15. THE SPACE BELOW IS PROVIDED FOR ADDITIONAL COMMENTS:

16. UST PERMANENT CLOSURE ASSESSMENT REPORT PREPARED BY:

Signature: *Patricia M. Hartshorne* Date: 2/11/2009

Name Printed: Patricia M. Hartshorne, RG Position Title: Project Manager

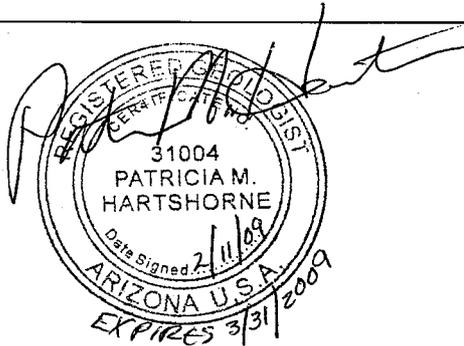
Company Name: SCS Engineers

Street Address: 2410 West Ruthrauff Road, Suite 110

City: Tucson State: AZ Zip: 85705

Phone Number: (520) 696-1617 Fax Number: (520) 696-1618

Where registration is required by the Board of Technical Registration, please affix seal below:



17. QUESTIONS:

ADEQ would appreciate receiving the consultant's response to the following question: "In your professional opinion, has there been a release of a regulated substance at this site?"

Yes No Need further assessment

18. VOC, PAH and METAL RESULTS (Complete only if applicable)

- a. Use Table III to identify the concentrations of the VOCs, PAHs and Metals detected for each applicable sample.
- b. In cases where a compound is detected in some but not all samples, list the numerical reporting limit for each sample in which the compound was not detected to indicate that. Do not write “non-detect” or “ND” only.
- c. Holding time (hours): Less than 48 hours for VOCs analysis

Table III

VOCs, PAHs, and Metals Detected	Laboratory Reporting Limit mg/kg (ppm)	Concentration in mg/kg (ppm)					
		PT-T1N-13	PT-T1S-13	PT-P1-2.5	PT-P2-3.5	PT-P3-3	PT-RO1-C
VOCs: Ethylbenzene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.100
4-Isopropyltoluene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.052
n-Propylbenzene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.070
Toluene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.110
1,2,4-Trimethylbenzene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.540
1,3,5-Trimethylbenzene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.180
m,p-Xylene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.480
o-Xylene	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.230
Total Xylenes	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.710
PAHs: 1-Methylnaphthalene	Varies	<0.0038	<0.0038	<0.0037	<0.0036	<0.0038	0.092
2-Methylnaphthalene	Varies	<0.0038	<0.0038	<0.0037	<0.0036	<0.0038	0.120
Naphthalene	Varies	<0.0038	<0.0038	<0.0037	<0.0036	<0.0038	0.095
Metals: Lead	10	28	<10	<10	<10	<10	24

Sample PT-RO1-C is a composite soil sample collected from the rolloff bin that was transported offsite for disposal. With the exception of low concentrations of lead in PT-T1N-13, samples of soil that remained onsite following excavation activities contained no detectable concentration of contaminants above laboratory reporting limits.

ATTACHMENT 6
LABORATORY ANALYTICAL REPORTS

February 02, 2009



Pat Hartshorne
SCS Engineers
2410 W. Ruthrauff Road
Tucson, AZ 85705
TEL: (520) 696-1617
FAX (520) 696-1618

RE: Pennington Triangle 10204058.25

Order No.: 0901487

Dear Pat Hartshorne,

Turner Laboratories, Inc. received 1 sample on 1/15/2009 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

A handwritten signature in black ink that reads "Shari Bauman". The signature is written in a cursive, flowing style.

Shari Bauman
Laboratory Director

CLIENT: SCS Engineers
Project: Pennington Triangle 10204058.25
Lab Order: 0901487
Date Received: 1/15/2009

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
0901487-01A	PT-P1-2.5		1/15/2009 10:43:00 AM
0901487-01B	PT-P1-2.5		1/15/2009 10:43:00 AM

CLIENT: SCS Engineers
Project: Pennington Triangle 10204058.25
Lab Order: 0901487

CASE NARRATIVE

The 8310 method analysis was performed by SPL, Inc. in Houston, TX.

Arizona Method 8015AZ Revision 1 only includes C10-C32 hydrocarbons. Turner Laboratories provides C6-C10 range hydrocarbons for additional information, but this range is not used for calculation of "total hydrocarbons" and should not be used as compliance information.

The 8260 extraction method was performed by Turner Laboratories, Inc. Due to instrument failure, the analytical analyses were performed by SPL, Inc. in Houston, TX.

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
Lab Order: 0901487
Project: Pennington Triangle 10204058.25
Lab ID: 0901487-01A

Client Sample ID: PT-P1-2.5
Collection Date: 1/15/2009 10:43:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	ND	20		mg/Kg	1	1/19/2009 3:12:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 3:12:00 PM
C22-C32 (Oil Range Organics)	ND	100		mg/Kg	1	1/19/2009 3:12:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 3:12:00 PM
Surr: o-Terphenyl	93.6	70-130		%REC	1	1/19/2009 3:12:00 PM
Surr: Trifluorotoluene	95.7	70-130		%REC	1	1/19/2009 3:12:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	ND	10		mg/Kg	1	1/27/2009 1:19:06 PM

Qualifiers: ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Lab Order: 0901487
Client: SCS Engineers
Project: Pennington Triangle 10204058.25

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0901487-01A	PT-P1-2.5	1/15/2009 10:43:00 AM	Soil	C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 3:12:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:19:06 PM



TURNER LABORATORIES, INC.

QC SUMMARY REPORT

LEVEL II

Turner Work Order No.: 0901487
Client: SCS Engineers/City of Tucson
Project: Pennington Triangle 10204058.25

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Work Order: 0901487
 Project: Pennington Triangle 10204058.25

QC SUMMARY REPORT

Method Blank

Sample ID: MB-11448 Batch ID: 11448 Test Code: 8015AZR1 Units: mg/Kg Analysis Date 1/19/2009 12:53:00 PM Prep Date: 1/16/2009

Client ID: FUELSGC_090119A Run ID: FUELSGC_090119A SeqNo: 678209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	ND	30									
C10-C32 (Total)	ND	130									
C22-C32 (Oil Range Organics)	ND	99									
C6-C10 (Gasoline Range Organics)	ND	20									
o-Terphenyl	18.84	0	19.8	0	95.1	70	130	0			
Trifluorobluene	18.2	0	19.8	0	91.9	70	130	0			

Qualifiers: NID - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: SCS Engineers

Work Order: 0901487

Project: Pennington Triangle 10204058.25

QC SUMMARY REPORT

Method Blank

Sample ID: MB-11463 Batch ID: 11463 Test Code: SW6010B Units: mg/Kg Analysis Date 1/27/2009 1:01:11 PM Prep Date: 1/22/2009

Client ID: Run ID: ICP_090127A SeqNo: 679227

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND										
											20

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Work Order: 0901487
 Project: Pennington Triangle 10204058.25

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0901487-01AMS	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 3:58:00 PM	Prep Date: 1/16/2009						
Client ID: PT-P1-2.5	Run ID: FUELSGC_090119A	SeqNo: 678213									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	223.7	30	200	0	112	70	130	0			
C10-C32 (Total)	412.8	130	400	0	103	70	130	0			
C22-C32 (Oil Range Organics)	189.1	100	200	0	94.6	70	130	0			
C6-C10 (Gasoline Range Organics)	225.6	20	200	0	113	70	130	0			
o-Terphenyl	16.71	0	20	0	83.6	70	130	0			
Trifluorotoluene	17.03	0	20	0	85.2	70	130	0			

Sample ID: 0901487-01AMS	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 4:44:00 PM	Prep Date: 1/16/2009						
Client ID: PT-P1-2.5	Run ID: FUELSGC_090119A	SeqNo: 678214									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	232.2	30	200	0	116	70	130	223.7	3.74	30	
C10-C32 (Total)	438.9	130	400	0	110	70	130	412.8	6.12	30	
C22-C32 (Oil Range Organics)	206.6	100	200	0	103	70	130	189.1	8.86	30	
C6-C10 (Gasoline Range Organics)	208.6	20	200	0	104	70	130	225.6	7.81	30	
o-Terphenyl	17.24	0	20	0	86.2	70	130	16.71	0	0	
Trifluorotoluene	17.64	0	20	0	88.2	70	130	17.03	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: SCS Engineers
 Work Order: 0901487
 Project: Pennington Triangle 10204058.25

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0901487-01AMS Batch ID: 11463 Test Code: SW6010B Units: mg/Kg Analysis Date 1/27/2009 1:24:05 PM Prep Date: 1/22/2009
 Client ID: PT-P1-2.5 Run ID: ICP_090127A SeqNo: 679231

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.34	10	50	0.2181	92.2	75	125	0			

Sample ID: 0901487-01AMSD Batch ID: 11463 Test Code: SW6010B Units: mg/Kg Analysis Date 1/27/2009 1:28:18 PM Prep Date: 1/22/2009
 Client ID: PT-P1-2.5 Run ID: ICP_090127A SeqNo: 679232

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	45.88	10	50	5.452	80.8	75	125	46.34	1	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Turner Laboratories, Inc.

Date: 02-Feb-09

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: SCS Engineers
Work Order: 0901487
Project: Pennington Triangle 10204058.25

Sample ID: LCS-11448	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 1:39:00 PM	Prep Date: 1/16/2009						
Client ID:	Run ID: FUELSCC_090119A	SeqNo: 678210									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	239.8	30	200	0	120	70	130	0			
C10-C32 (Total)	451.9	130	400	0	113	70	130	0			
C22-C32 (Oil Range Organics)	212.1	100	200	0	106	70	130	0			
C6-C10 (Gasoline Range Organics)	218.9	20	200	0	109	70	130	0			
o-Terphenyl	17.41	0	20	0	87	70	130	0			
Trifluorotoluene	17.48	0	20	0	87.4	70	130	0			

Sample ID: LCS-11448	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 2:25:00 PM	Prep Date: 1/16/2009						
Client ID:	Run ID: FUELSCC_090119A	SeqNo: 678211									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	214.7	30	200	0	107	70	130	239.8	11.1	30	
C10-C32 (Total)	412.3	130	400	0	103	70	130	451.9	9.16	30	
C22-C32 (Oil Range Organics)	197.6	100	200	0	98.8	70	130	212.1	7.06	30	
C6-C10 (Gasoline Range Organics)	205.2	20	200	0	103	70	130	218.9	6.47	30	
o-Terphenyl	16.34	0	20	0	81.7	70	130	17.41	0	0	
Trifluorotoluene	16.86	0	20	0	84.3	70	130	17.48	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: SCS Engineers
Work Order: 0901487
Project: Pennington Triangle 10204058.25

Sample ID: LCS-11463	Batch ID: 11463	Test Code: SW6010B	Units: mg/Kg	Analysis Date: 1/27/2009 1:05:31 PM	Prep Date: 1/22/2009						
Client ID:	Run ID: ICP_090127A	SeqNo: 679228									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	99.59	20	100	0	99.6	80	120	0			

Sample ID: LCSD-11463	Batch ID: 11463	Test Code: SW6010B	Units: mg/Kg	Analysis Date: 1/27/2009 1:10:11 PM	Prep Date: 1/22/2009						
Client ID:	Run ID: ICP_090127A	SeqNo: 679229									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	100.4	20	100	0	100	80	120	99.59	0.803	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:
09010654

Report To:

Turner Laboratories, Inc.
Shari Bauman
2445 N. Coyote Drive
Suite 104
Tucson
AZ
85745-
ph: (520) 882-5880 fax:

Project Name: 0901487
Site: Tucson, AZ
Site Address:

PO Number:
State: Arizona
State Cert. No.: AZ0050
Date Reported: 1/21/2009

This Report Contains A Total Of 10 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/22/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

**Case Narrative for:
 Turner Laboratories, Inc.**

**Certificate of Analysis Number:
 09010654**

Report To: Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:	Project Name: 0901487 Site: Tucson, AZ Site Address: PO Number: State: Arizona State Cert. No.: AZ0050 Date Reported: 1/21/2009
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Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:

09010654

Report To: Turner Laboratories, Inc.
 Shari Bauman
 2445 N. Coyote Drive
 Suite 104
 Tucson
 AZ
 85745-
 ph: (520) 882-5880 fax: (520) 882-9788

Project Name: 0901487
Site: Tucson, AZ
Site Address:
PQ Number:
State: Arizona
State Cert. No.: AZ0050
Date Reported: 1/21/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
0901487-01B	09010654-01	Soil	1/15/2009 10:43:00 AM	1/16/2009 10:00:00 AM		<input type="checkbox"/>

Elessa Sommers
 Senior Project Manager

Richard R. Reed
 Laboratory Director

Ted Yen
 Quality Assurance Officer

1/22/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901487-01B

Collected: 01/15/2009 10:43

SPL Sample ID: 09010654-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	11.2		0	1	01/17/09 11:48	CFS	4863821
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	ND		3.7	1	01/20/09 17:57	YN	4868121
2-Methylnaphthalene	ND		3.7	1	01/20/09 17:57	YN	4868121
Acenaphthene	ND		3.7	1	01/20/09 17:57	YN	4868121
Acenaphthylene	ND		3.7	1	01/20/09 17:57	YN	4868121
Anthracene	ND		3.7	1	01/20/09 17:57	YN	4868121
Benz(a)anthracene	ND		3.7	1	01/20/09 17:57	YN	4868121
Benzo(a)pyrene	ND		3.7	1	01/20/09 17:57	YN	4868121
Benzo(b)fluoranthene	ND		3.7	1	01/20/09 17:57	YN	4868121
Benzo(g,h,i)perylene	ND		3.7	1	01/20/09 17:57	YN	4868121
Benzo(k)fluoranthene	ND		3.7	1	01/20/09 17:57	YN	4868121
Chrysene	ND		3.7	1	01/20/09 17:57	YN	4868121
Dibenzo(a,h)anthracene	ND		3.7	1	01/20/09 17:57	YN	4868121
Fluoranthene	ND		3.7	1	01/20/09 17:57	YN	4868121
Fluorene	ND		3.7	1	01/20/09 17:57	YN	4868121
Indeno(1,2,3-cd)pyrene	ND		3.7	1	01/20/09 17:57	YN	4868121
Naphthalene	ND		3.7	1	01/20/09 17:57	YN	4868121
Phenanthrene	ND		3.7	1	01/20/09 17:57	YN	4868121
Pyrene	ND		3.7	1	01/20/09 17:57	YN	4868121
Surr: 1-Fluoronaphthalene	67.5		% 10-115	1	01/20/09 17:57	YN	4868121
Surr: Phenanthrene-d10	50.6		% 16-122	1	01/20/09 17:57	YN	4868121

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/19/2009 11:39	QMT	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901487

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010654
Lab Batch ID: 87182

Method Blank

Samples in Analytical Batch:

RunID: 4_090120A-4867619 Units: ug/Kg
Analysis Date: 01/20/2009 15:22 Analyst: YN
Preparation Date: 01/19/2009 11:39 Prep By: QMT Method SW3550B

Lab Sample ID Client Sample ID
09010654-01A 0901487-01B

Table with 3 columns: Analyte, Result, Rep Limit. Lists various polynuclear aromatic hydrocarbons and their results (mostly ND) and reporting limits.

Laboratory Control Sample (LCS)

RunID: 4_090120A-4867620 Units: ug/Kg
Analysis Date: 01/20/2009 16:01 Analyst: YN
Preparation Date: 01/19/2009 11:39 Prep By: QMT Method SW3550B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows recovery data for various analytes.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.
0901487

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010654
Lab Batch ID: 87182

Laboratory Control Sample (LCS)

RunID: 4_090120A-4867620 Units: ug/Kg
Analysis Date: 01/20/2009 16:01 Analyst: YN
Preparation Date: 01/19/2009 11:39 Prep By: QMT Method SW3550B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, and two Surr: entries.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010654-01
RunID: 4_090120A-4868119 Units: ug/Kg-dry
Analysis Date: 01/20/2009 16:40 Analyst: YN
Preparation Date: 01/19/2009 11:39 Prep By: QMT Method SW3550B

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows list various PAHs like 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, etc.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.
0901487

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010654
Lab Batch ID: 87182

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010654-01
RunID: 4_090120A-4868119 Units: ug/Kg-dry
Analysis Date: 01/20/2009 16:40 Analyst: YN
Preparation Date: 01/19/2009 11:39 Prep By: QMT Method SW3550B

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, Surr: 1-Fluoronaphthalene, and Surr: Phenanthrene-d10.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.
0901487

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 09010654
Lab Batch ID: R262637

Samples in Analytical Batch:

Lab Sample ID Client Sample ID
09010654-01A 0901487-01B

Sample Duplicate

Original Sample: 09010654-01
RunID: WET_090117A-4863821 Units: wt%
Analysis Date: 01/17/2009 11:48 Analyst: CFS

Table with 5 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Row 1: Percent Moisture, 11.2, 11.18, 0, 20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Sample Receipt Checklist

Workorder:	09010654	Received By:	L_C
Date and Time Received:	1/16/2009 10:00:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	4.5°C	Chilled by:	Water Ice

- | | | | |
|--|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | VOA Vials Not Present <input checked="" type="checkbox"/> |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:

09010950

Report To: Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:	Project Name: 0901487 Site: Tucson, AZ Site Address: PO Number: State: Arizona State Cert. No.: AZ0050 Date Reported: 1/29/2009
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This Report Contains A Total Of 12 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/30/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Case Narrative for:
 Turner Laboratories, Inc.

Certificate of Analysis Number:
09010950

<p>Report To: Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:</p>	<p>Project Name: 0901487 Site: Tucson, AZ Site Address: PO Number: State: Arizona State Cert. No.: AZ 0050 Date Reported: 1/29/2009</p>
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Results are reported on a wet weight basis. A sample extract was received and no container was received to perform moisture analysis.

Your sample "0901487-01A" (SPL ID: 09010950-01), analyzed for Volatile Organics by Method 8260B, required a dilution due to the sample matrix (methanol extraction). The sample is assigned the Arizona data qualifier D1.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

09010950 Page 1
 1/30/2009

Elessa Sommers
 Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Turner Laboratories, Inc.
Certificate of Analysis Number:
09010950

Report To: Turner Laboratories, Inc.
 Shari Bauman
 2445 N. Coyote Drive
 Suite 104
 Tucson
 AZ
 85745-
 ph: (520) 882-5880 fax: (520) 882-9788

Project Name: 0901487
Site: Tucson, AZ
Site Address:

PO Number:
State: Arizona
State Cert. No.: AZ0050
Date Reported: 1/29/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
0901487-01A	09010950-01	Soil	1/15/2009 10:43:00 AM	1/24/2009 10:30:00 AM		<input type="checkbox"/>
0901487-01AMS	09010950-01MS	Soil	1/15/2009 10:43:00 AM	1/24/2009 10:30:00 AM		<input type="checkbox"/>
0901487-01AMSD	09010950-01MSD	Soil	1/15/2009 10:43:00 AM	1/24/2009 10:30:00 AM		<input type="checkbox"/>

1/30/2009

Elessa Sommers
 Senior Project Manager

Date

Richard R. Reed
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901487-01A

Collected: 01/15/2009 10:43 SPL Sample ID: 09010950-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg	
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,1,1-Trichloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,1,2-Trichloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,1-Dichloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,1-Dichloroethene	ND		50	50	01/27/09 15:12	E_G	4881390
1,1-Dichloropropene	ND		50	50	01/27/09 15:12	E_G	4881390
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 15:12	E_G	4881390
1,2,3-Trichloropropane	ND		50	50	01/27/09 15:12	E_G	4881390
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,2,4-Trimethylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 15:12	E_G	4881390
1,2-Dibromoethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,2-Dichlorobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,2-Dichloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
1,2-Dichloropropane	ND		50	50	01/27/09 15:12	E_G	4881390
1,3,5-Trimethylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,3-Butadiene	ND		500	50	01/27/09 15:12	E_G	4881390
1,3-Dichlorobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,3-Dichloropropane	ND		50	50	01/27/09 15:12	E_G	4881390
1,4-Dichlorobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
1,4-Dioxane	ND		5000	50	01/27/09 15:12	E_G	4881390
2,2,4-Trimethylpentane	ND		50	50	01/27/09 15:12	E_G	4881390
2,2-Dichloropropane	ND		50	50	01/27/09 15:12	E_G	4881390
2-Butanone	ND		250	50	01/27/09 15:12	E_G	4881390
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 15:12	E_G	4881390
2-Chlorotoluene	ND		50	50	01/27/09 15:12	E_G	4881390
2-Hexanone	ND		250	50	01/27/09 15:12	E_G	4881390
2-Nitropropane	ND		500	50	01/27/09 15:12	E_G	4881390
4-Chlorotoluene	ND		50	50	01/27/09 15:12	E_G	4881390
4-Isopropyltoluene	ND		50	50	01/27/09 15:12	E_G	4881390
4-Methyl-2-pentanone	ND		250	50	01/27/09 15:12	E_G	4881390
Acetone	ND		500	50	01/27/09 15:12	E_G	4881390
Acetonitrile	ND		1200	50	01/27/09 15:12	E_G	4881390
Acrylonitrile	ND		500	50	01/27/09 15:12	E_G	4881390
Allyl chloride	ND		250	50	01/27/09 15:12	E_G	4881390
alpha-Methylstyrene	ND		250	50	01/27/09 15:12	E_G	4881390
Benzene	ND		50	50	01/27/09 15:12	E_G	4881390
Benzyl chloride	ND		1200	50	01/27/09 15:12	E_G	4881390

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901487-01A

Collected: 01/15/2009 10:43 SPL Sample ID: 09010950-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Bromochloromethane	ND		50	50	01/27/09 15:12	E_G	4881390
Bromodichloromethane	ND		50	50	01/27/09 15:12	E_G	4881390
Bromoform	ND		50	50	01/27/09 15:12	E_G	4881390
Bromomethane	ND		50	50	01/27/09 15:12	E_G	4881390
Carbon disulfide	ND		50	50	01/27/09 15:12	E_G	4881390
Carbon tetrachloride	ND		50	50	01/27/09 15:12	E_G	4881390
Chlorobenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Chloroethane	ND		50	50	01/27/09 15:12	E_G	4881390
Chloroform	ND		50	50	01/27/09 15:12	E_G	4881390
Chloromethane	ND		100	50	01/27/09 15:12	E_G	4881390
Crotonaldehyde	ND		25000	50	01/27/09 15:12	E_G	4881390
Cyclohexane	ND		50	50	01/27/09 15:12	E_G	4881390
Cyclohexanone	ND		10000	50	01/27/09 15:12	E_G	4881390
Dibromochloromethane	ND		50	50	01/27/09 15:12	E_G	4881390
Dibromomethane	ND		50	50	01/27/09 15:12	E_G	4881390
Dichlorodifluoromethane	ND		250	50	01/27/09 15:12	E_G	4881390
Dicyclopentadiene	ND		250	50	01/27/09 15:12	E_G	4881390
Diisopropyl Ether	ND		100	50	01/27/09 15:12	E_G	4881390
Epichlorohydrin	ND		500	50	01/27/09 15:12	E_G	4881390
Ethyl Acetate	ND		12000	50	01/27/09 15:12	E_G	4881390
Ethyl Cyanide	ND		500	50	01/27/09 15:12	E_G	4881390
Ethyl Ether	ND		250	50	01/27/09 15:12	E_G	4881390
Ethyl methacrylate	ND		500	50	01/27/09 15:12	E_G	4881390
Ethylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Freon-113	ND		250	50	01/27/09 15:12	E_G	4881390
Hexachlorobutadiene	ND		50	50	01/27/09 15:12	E_G	4881390
Hexane	ND		50	50	01/27/09 15:12	E_G	4881390
Iodomethane	ND		250	50	01/27/09 15:12	E_G	4881390
Isobutyl alcohol	ND		12000	50	01/27/09 15:12	E_G	4881390
Isopropylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Methacrylonitrile	ND		250	50	01/27/09 15:12	E_G	4881390
Methyl acetate	ND		100	50	01/27/09 15:12	E_G	4881390
Methyl methacrylate	ND		250	50	01/27/09 15:12	E_G	4881390
Methyl tert-butyl ether	ND		50	50	01/27/09 15:12	E_G	4881390
Methylcyclohexane	ND		250	50	01/27/09 15:12	E_G	4881390
Methylene chloride	ND		50	50	01/27/09 15:12	E_G	4881390
Naphthalene	ND		250	50	01/27/09 15:12	E_G	4881390
n-Butanol	ND		12000	50	01/27/09 15:12	E_G	4881390
n-Butylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
BV - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901487-01A

Collected: 01/15/2009 10:43 SPL Sample ID: 09010950-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
p-Diethylbenzene	ND		250	50	01/27/09 15:12	E_G	4881390
sec-Butylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Styrene	ND		50	50	01/27/09 15:12	E_G	4881390
t-Butyl alcohol	ND		12000	50	01/27/09 15:12	E_G	4881390
tert-Amyl methyl ether	ND		100	50	01/27/09 15:12	E_G	4881390
tert-Butyl ethyl ether	ND		100	50	01/27/09 15:12	E_G	4881390
tert-Butylbenzene	ND		50	50	01/27/09 15:12	E_G	4881390
Tetrachloroethene	ND		50	50	01/27/09 15:12	E_G	4881390
Tetrahydrofuran	ND		250	50	01/27/09 15:12	E_G	4881390
Toluene	ND		50	50	01/27/09 15:12	E_G	4881390
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 15:12	E_G	4881390
Trichloroethene	ND		50	50	01/27/09 15:12	E_G	4881390
Trichlorofluoromethane	ND		100	50	01/27/09 15:12	E_G	4881390
Vinyl acetate	ND		250	50	01/27/09 15:12	E_G	4881390
Vinyl chloride	ND		100	50	01/27/09 15:12	E_G	4881390
cis-1,2-Dichloroethene	ND		50	50	01/27/09 15:12	E_G	4881390
cis-1,3-Dichloropropene	ND		50	50	01/27/09 15:12	E_G	4881390
m,p-Xylene	ND		50	50	01/27/09 15:12	E_G	4881390
o-Xylene	ND		50	50	01/27/09 15:12	E_G	4881390
trans-1,2-Dichloroethene	ND		50	50	01/27/09 15:12	E_G	4881390
trans-1,3-Dichloropropene	ND		50	50	01/27/09 15:12	E_G	4881390
Xylenes, Total	ND		50	50	01/27/09 15:12	E_G	4881390
1,2-Dichloroethene (total)	ND		50	50	01/27/09 15:12	E_G	4881390
1,3-Dichloropropene, Total	ND		50	50	01/27/09 15:12	E_G	4881390
Surr: Toluene-d8	101		% 70-140	50	01/27/09 15:12	E_G	4881390
Surr: 1,2-Dichloroethane-d4	96.0		% 64-130	50	01/27/09 15:12	E_G	4881390
Surr: 4-Bromofluorobenzene	98.8		% 62-130	50	01/27/09 15:12	E_G	4881390

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901487

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010950
Lab Batch ID: R263658

Method Blank

Samples in Analytical Batch:

RunID: L_090127B-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Lab Sample ID Client Sample ID
09010950-01A 0901487-01A

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (ND) and reporting limits.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901487

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010950
Lab Batch ID: R263658

Method Blank

RunID: L_0901278-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (ND) and reporting limits.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901487

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010950
Lab Batch ID: R263658

Method Blank

RunID: L_090127B-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Trichlorofluoromethane, Vinyl acetate, Vinyl chloride, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, m,p-Xylene, o-Xylene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, 1,2-Dichloroethene (total), 1,3-Dichloropropene, Total, Xylenes, Total, and three Surr: entries.

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: L_090127B-4881388 Units: ug/kg
Analysis Date: 01/27/2009 13:23 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 11 columns: Analyte, LCS Spike Added, LCS Result, LCS Percent Recovery, LCSD Spike Added, LCSD Result, LCSD Percent Recovery, RPD, RPD Limit, Lower Limit, Upper Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, Toluene, Trichloroethene, and three Surr: entries.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.
0901487

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010950
Lab Batch ID: R263658

Sample Spiked: 09010950-01
RunID: L_090127B-4881391 Units: ug/kg
Analysis Date: 01/27/2009 15:39 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: KP Method SW5035

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, Toluene, Trichloroethene, and various surrogates.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Sample Receipt Checklist

Workorder:	09010950	Received By:	L_C
Date and Time Received:	1/24/2009 10:30:00 AM	Carrier name:	Fedex-Priority
Temperature:	4.0°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on shipping container/cooler? Yes No Not Present
3. Custody seals intact on sample bottles? Yes No Not Present
4. Chain of custody present? Yes No
5. Chain of custody signed when relinquished and received? Yes No
6. Chain of custody agrees with sample labels? Yes No
7. Samples in proper container/bottle? Yes No
8. Sample containers intact? Yes No
9. Sufficient sample volume for indicated test? Yes No
10. All samples received within holding time? Yes No
11. Container/Temp Blank temperature in compliance? Yes No
12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

Turner Laboratories, Inc.

2445 North Coyote Drive
Suite #104
Tucson, AZ 85745
(520) 882-5880

CHAIN-OF-CUSTODY RECORD

09010950

Subcontractor:

Southern Petroleum Laboratories, Inc.
8880 Interchange Drive

TEL: (713) 660-0901
FAX: (713) 660-8975

Houston, TX 77054

Acct #:

23-Jan-09

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
0901487-01A	Soil	1/15/09 10:43:00 AM	BRASSLEEVE	sw8260B 1

402

Comments: Please analyze for 8260. Please note sample is a soil extra in a VOA. Prep Batch Report included.

Date/Time

Date/Time

Relinquished by: *Sam Wynn*

1/23/09 1500

1/24/09 10:36

Received by:

Received by:

(Signature)

February 02, 2009



Pat Hartshorne
SCS Engineers
2410 W. Ruthrauff Road
Tucson, AZ 85705
TEL: (520) 696-1617
FAX (520) 696-1618

RE: Pennington Triangle 10204058.25

Order No.: 0901500

Dear Pat Hartshorne,

Turner Laboratories, Inc. received 5 samples on 1/16/2009 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

A handwritten signature in black ink that reads "Shari Bauman". The signature is written in a cursive, flowing style.

Shari Bauman
Laboratory Director

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
Project: Pennington Triangle 10204058.25
Lab Order: 0901500
Date Received: 1/16/2009

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
0901500-01A	PT-R01-C		1/16/2009 9:10:00 AM
0901500-01B	PT-R01-C		1/16/2009 9:10:00 AM
0901500-02A	PT-T1N-13		1/16/2009 10:26:00 AM
0901500-02B	PT-T1N-13		1/16/2009 10:26:00 AM
0901500-03A	PT-T1S-13		1/16/2009 10:37:00 AM
0901500-03B	PT-T1S-13		1/16/2009 10:37:00 AM
0901500-04A	PT-P2-3.5		1/16/2009 11:34:00 AM
0901500-04B	PT-P2-3.5		1/16/2009 11:34:00 AM
0901500-05A	PT-P3-3		1/16/2009 1:15:00 PM
0901500-05B	PT-P3-3		1/16/2009 1:15:00 PM

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
Project: Pennington Triangle 10204058.25
Lab Order: 0901500

CASE NARRATIVE

The 8310 method analysis was performed by SPL, Inc. in Houston, TX.

Arizona Method 8015AZ Revision 1 only includes C10-C32 hydrocarbons. Turner Laboratories provides C6-C10 range hydrocarbons for additional information, but this range is not used for calculation of "total hydrocarbons" and should not be used as compliance information.

The 8260 extraction method was performed by Turner Laboratories, Inc. Due to instrument failure, the analytical analyses were performed by SPL, Inc. in Houston, TX.

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Lab Order: 0901500
 Project: Pennington Triangle 10204058.25
 Lab ID: 0901500-01A

Client Sample ID: PT-R01-C
 Collection Date: 1/16/2009 9:10:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	23	20		mg/Kg	1	1/19/2009 5:30:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 5:30:00 PM
C22-C32 (Oil Range Organics)	ND	100		mg/Kg	1	1/19/2009 5:30:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 5:30:00 PM
Surr: o-Terphenyl	93.4	70-130		%REC	1	1/19/2009 5:30:00 PM
Surr: Trifluorotoluene	96.6	70-130		%REC	1	1/19/2009 5:30:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	24	10		mg/Kg	1	1/27/2009 1:36:50 PM

Qualifiers:
 ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Lab Order: 0901500
 Project: Pennington Triangle 10204058.25
 Lab ID: 0901500-02A

Client Sample ID: PT-T1N-13
 Collection Date: 1/16/2009 10:26:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	ND	20		mg/Kg	1	1/19/2009 6:16:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 6:16:00 PM
C22-C32 (Oil Range Organics)	ND	99		mg/Kg	1	1/19/2009 6:16:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 6:16:00 PM
Surr: o-Terphenyl	90.0	70-130		%REC	1	1/19/2009 6:16:00 PM
Surr: Trifluorotoluene	90.7	70-130		%REC	1	1/19/2009 6:16:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	28	10		mg/Kg	1	1/27/2009 1:41:43 PM

Qualifiers:
 ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Lab Order: 0901500
 Project: Pennington Triangle 10204058.25
 Lab ID: 0901500-03A

Client Sample ID: PT-T1S-13
 Collection Date: 1/16/2009 10:37:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	ND	20		mg/Kg	1	1/19/2009 7:02:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 7:02:00 PM
C22-C32 (Oil Range Organics)	ND	100		mg/Kg	1	1/19/2009 7:02:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 7:02:00 PM
Surr: o-Terphenyl	91.4	70-130		%REC	1	1/19/2009 7:02:00 PM
Surr: Trifluorotoluene	90.7	70-130		%REC	1	1/19/2009 7:02:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	ND	10		mg/Kg	1	1/27/2009 1:46:41 PM

Qualifiers: ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
Lab Order: 0901500
Project: Pennington Triangle 10204058.25
Lab ID: 0901500-04A

Client Sample ID: PT-P2-3.5
Collection Date: 1/16/2009 11:34:00 AM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	ND	20		mg/Kg	1	1/19/2009 7:48:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 7:48:00 PM
C22-C32 (Oil Range Organics)	ND	100		mg/Kg	1	1/19/2009 7:48:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 7:48:00 PM
Surr: o-Terphenyl	89.4	70-130		%REC	1	1/19/2009 7:48:00 PM
Surr: Trifluorotoluene	89.3	70-130		%REC	1	1/19/2009 7:48:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	ND	10		mg/Kg	1	1/27/2009 1:51:34 PM

Qualifiers: ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Turner Laboratories, Inc.

Date: 02-Feb-09

CLIENT: SCS Engineers
 Lab Order: 0901500
 Project: Pennington Triangle 10204058.25
 Lab ID: 0901500-05A

Client Sample ID: PT-P3-3
 Collection Date: 1/16/2009 1:15:00 PM
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C10-C32 HYDROCARBONS IN SOIL		8015AZR1				Analyst: DCBII
C6-C10 (Gasoline Range Organics)	ND	20		mg/Kg	1	1/19/2009 8:33:00 PM
C10-C22 (Diesel Range Organics)	ND	30		mg/Kg	1	1/19/2009 8:33:00 PM
C22-C32 (Oil Range Organics)	ND	100		mg/Kg	1	1/19/2009 8:33:00 PM
C10-C32 (Total)	ND	130		mg/Kg	1	1/19/2009 8:33:00 PM
Surr: o-Terphenyl	91.4	70-130		%REC	1	1/19/2009 8:33:00 PM
Surr: Trifluorotoluene	95.3	70-130		%REC	1	1/19/2009 8:33:00 PM
ICP METALS-RCRA, TOTAL		SW6010B				Analyst: RAD
Lead	ND	10		mg/Kg	1	1/27/2009 1:56:27 PM

Qualifiers: ND - Not Detected at or above the PQL
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Turner Laboratories, Inc.

Lab Order: 0901500

Client: SCS Engineers

Project: Pennington Triangle 10204058.25

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0901500-01A	PT-R01-C	1/16/2009 9:10:00 AM	Soil	C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 5:30:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:36:50 PM
0901500-02A	PT-T1N-13	1/16/2009 10:26:00 AM		C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 6:16:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:41:43 PM
0901500-03A	PT-T1S-13	1/16/2009 10:37:00 AM		C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 7:02:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:46:41 PM
0901500-04A	PT-P2-3.5	1/16/2009 11:34:00 AM		C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 7:48:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:51:34 PM
0901500-05A	PT-P3-3	1/16/2009 1:15:00 PM		C10-C32 Hydrocarbons in Soil		1/16/2009	1/19/2009 8:33:00 PM
				ICP Metals-RCRA, Total		1/22/2009	1/27/2009 1:56:27 PM



TURNER LABORATORIES, INC.

QC SUMMARY REPORT

LEVEL II

Turner Work Order No.: 0901500
Client: SCS Engineers/City of Tucson
Project: Pennington Triangle 10204058.25

Date: 02-Feb-09

Turner Laboratories, Inc.

QC SUMMARY REPORT

Method Blank

CLIENT: SCS Engineers
Work Order: 0901500
Project: Pennington Triangle 10204058.25

Sample ID: MB-11448 Batch ID: 11448 Test Code: 8015AZR1 Units: mg/Kg Analysis Date 1/19/2009 12:53:00 PM Prep Date: 1/16/2009
Client ID: Run ID: FUELSGC_090119A SeqNo: 678209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	ND	30									
C10-C32 (Total)	ND	130									
C22-C32 (Oil Range Organics)	ND	99									
C6-C10 (Gasoline Range Organics)	ND	20									
o-Terphenyl	18.84	0	19.8	0	95.1	70	130	0			
Trifluorotoluene	18.2	0	19.8	0	91.9	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Date: 02-Feb-09

Turner Laboratories, Inc.

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: SCS Engineers
Work Order: 0901500
Project: Pennington Triangle 10204058.25

Sample ID: 0901487-01AMS Batch ID: 11448 Test Code: 8015AZR1 Units: mg/Kg Analysis Date 1/19/2009 3:58:00 PM Prep Date: 1/16/2009

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	223.7	30	200	0	112	70	130	0			
C10-C32 (Total)	412.8	130	400	0	103	70	130	0			
C22-C32 (Oil Range Organics)	189.1	100	200	0	94.6	70	130	0			
C6-C10 (Gasoline Range Organics)	225.6	20	200	0	113	70	130	0			
o-Terphenyl	16.71	0	20	0	83.6	70	130	0			
Trifluorotoluene	17.03	0	20	0	85.2	70	130	0			

Run ID: FUELSGC_090119A SeqNo: 678213

Sample ID: 0901487-01AMSD Batch ID: 11448 Test Code: 8015AZR1 Units: mg/Kg Analysis Date 1/19/2009 4:44:00 PM Prep Date: 1/16/2009

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	232.2	30	200	0	116	70	130	223.7	3.74	30	
C10-C32 (Total)	438.9	130	400	0	110	70	130	412.8	6.12	30	
C22-C32 (Oil Range Organics)	206.6	100	200	0	103	70	130	189.1	8.86	30	
C6-C10 (Gasoline Range Organics)	208.6	20	200	0	104	70	130	225.6	7.81	30	
o-Terphenyl	17.24	0	20	0	86.2	70	130	16.71	0	0	
Trifluorotoluene	17.64	0	20	0	88.2	70	130	17.03	0	0	

Run ID: FUELSGC_090119A SeqNo: 678214

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Sample Matrix Spike

CLIENT: SCS Engineers

Work Order: 0901500

Project: Pennington Triangle 10204058.25

Sample ID: 0901487-01AMS	Batch ID: 11463	Test Code: SW6010B	Units: mg/Kg	Analysis Date: 1/27/2009 1:24:05 PM	Prep Date: 1/22/2009						
Client ID:	Run ID: ICP_090127A	SeqNo: 679231									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.34	10	50	0.2181	92.2	75	125	0			

Sample ID: 0901487-01AMSD	Batch ID: 11463	Test Code: SW6010B	Units: mg/Kg	Analysis Date: 1/27/2009 1:28:18 PM	Prep Date: 1/22/2009						
Client ID:	Run ID: ICP_090127A	SeqNo: 679232									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	45.88	10	50	5.452	80.8	75	125	46.34	1	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Date: 02-Feb-09

Turner Laboratories, Inc.

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: SCS Engineers
Work Order: 0901500
Project: Pennington Triangle 10204058.25

Sample ID: LCS-11448	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 1:39:00 PM	Prep Date: 1/16/2009					
Client ID:	Run ID: FUELSGC_090119A	SeqNo: 678210								
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	30	200	0	120	70	130	0			
C10-C32 (Total)	130	400	0	113	70	130	0			
C22-C32 (Oil Range Organics)	100	200	0	106	70	130	0			
C6-C10 (Gasoline Range Organics)	20	200	0	109	70	130	0			
o-Terphenyl	0	20	0	87	70	130	0			
Trifluorotoluene	0	20	0	87.4	70	130	0			

Sample ID: LCSD-11448	Batch ID: 11448	Test Code: 8015AZR1	Units: mg/Kg	Analysis Date 1/19/2009 2:25:00 PM	Prep Date: 1/16/2009					
Client ID:	Run ID: FUELSGC_090119A	SeqNo: 678211								
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C10-C22 (Diesel Range Organics)	30	200	0	107	70	130	239.8	11.1	30	
C10-C32 (Total)	130	400	0	103	70	130	451.9	9.16	30	
C22-C32 (Oil Range Organics)	100	200	0	98.8	70	130	212.1	7.06	30	
C6-C10 (Gasoline Range Organics)	20	200	0	103	70	130	218.9	6.47	30	
o-Terphenyl	0	20	0	81.7	70	130	17.41	0	0	
Trifluorotoluene	0	20	0	84.3	70	130	17.48	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:
09010718

Report To: Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:	Project Name: 0901500 Site: Tucson, AZ Site Address: PO Number: State: Arizona State Cert. No.: AZ0050 Date Reported: 1/26/2009
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This Report Contains A Total Of 14 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/26/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Case Narrative for:
Turner Laboratories, Inc.

Certificate of Analysis Number:
09010718

<p>Report To:</p> <p>Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:</p>	<p>Project Name: 0901500</p> <p>Site: Tucson, AZ</p> <p>Site Address:</p> <p>PO Number:</p> <p>State: Arizona</p> <p>State Cert. No.: AZ0050</p> <p>Date Reported: 1/26/2009</p>
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Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample "0901500-01B" (SPL ID: 09010718-01) was randomly selected for use in SPL's quality control program for the PAH analysis by SW846 Method 8310. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries and the RPD were not calculated (N/C) for 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene (Batch ID: 87278) because the analyte concentration in the sample is disproportionate (greater than 4 times) to the amount spiked. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits. In addition, the RPD was above method and laboratory control limits for both MS/MSD surrogates. All surrogate recoveries were within control limits. The sample is assigned the Arizona qualifiers M3, R4, and R5.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

09010718 Page 1
 1/26/2009

Elessa Sommers
 Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Turner Laboratories, Inc.
Certificate of Analysis Number:
09010718

Report To: Turner Laboratories, Inc.
 Shari Bauman
 2445 N. Coyote Drive
 Suite 104
 Tucson
 AZ
 85745-
 ph: (520) 882-5880 fax: (520) 882-9788

Project Name: 0901500
Site: Tucson, AZ
Site Address:
PO Number:
State: Arizona
State Cert. No.: AZ0050
Date Reported: 1/26/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
0901500-01B	09010718-01	Soil	1/16/2009 9:10:00 AM	1/20/2009 9:30:00 AM		<input type="checkbox"/>
0901500-02B	09010718-02	Soil	1/16/2009 10:26:00 AM	1/20/2009 9:30:00 AM		<input type="checkbox"/>
0901500-03B	09010718-03	Soil	1/16/2009 10:37:00 AM	1/20/2009 9:30:00 AM		<input type="checkbox"/>
0901500-04B	09010718-04	Soil	1/16/2009 11:34:00 AM	1/20/2009 9:30:00 AM		<input type="checkbox"/>
0901500-05B	09010718-05	Soil	1/16/2009 1:15:00 PM	1/20/2009 9:30:00 AM		<input type="checkbox"/>

1/26/2009

Elessa Sommers
 Senior Project Manager

Date

Richard R. Reed
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901500-01B

Collected: 01/16/2009 9:10

SPL Sample ID: 09010718-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	10.1		0	1	01/20/09 15:26	EB1	4867328
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	92		3.7	1	01/23/09 14:12	YN	4873189
2-Methylnaphthalene	120		3.7	1	01/23/09 14:12	YN	4873189
Acenaphthene	ND		3.7	1	01/23/09 14:12	YN	4873189
Acenaphthylene	ND		3.7	1	01/23/09 14:12	YN	4873189
Anthracene	ND		3.7	1	01/23/09 14:12	YN	4873189
Benz(a)anthracene	ND		3.7	1	01/23/09 14:12	YN	4873189
Benzo(a)pyrene	ND		3.7	1	01/23/09 14:12	YN	4873189
Benzo(b)fluoranthene	ND		3.7	1	01/23/09 14:12	YN	4873189
Benzo(g,h,i)perylene	ND		3.7	1	01/23/09 14:12	YN	4873189
Benzo(k)fluoranthene	ND		3.7	1	01/23/09 14:12	YN	4873189
Chrysene	ND		3.7	1	01/23/09 14:12	YN	4873189
Dibenzo(a,h)anthracene	ND		3.7	1	01/23/09 14:12	YN	4873189
Fluoranthene	ND		3.7	1	01/23/09 14:12	YN	4873189
Fluorene	ND		3.7	1	01/23/09 14:12	YN	4873189
Indeno(1,2,3-cd)pyrene	ND		3.7	1	01/23/09 14:12	YN	4873189
Naphthalene	95		3.7	1	01/23/09 14:12	YN	4873189
Phenanthrene	ND		3.7	1	01/23/09 14:12	YN	4873189
Pyrene	ND		3.7	1	01/23/09 14:12	YN	4873189
Surr: 1-Fluoronaphthalene	29.5		% 10-115	1	01/23/09 14:12	YN	4873189
Surr: Phenanthrene-d10	75.9		% 16-122	1	01/23/09 14:12	YN	4873189

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/22/2009 14:57	LLL	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901500-02B

Collected: 01/16/2009 10:26 SPL Sample ID: 09010718-02

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	12.8		0	1	01/20/09 15:26	EB1	4867327
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	ND		3.8	1	01/23/09 14:51	YN	4873190
2-Methylnaphthalene	ND		3.8	1	01/23/09 14:51	YN	4873190
Acenaphthene	ND		3.8	1	01/23/09 14:51	YN	4873190
Acenaphthylene	ND		3.8	1	01/23/09 14:51	YN	4873190
Anthracene	ND		3.8	1	01/23/09 14:51	YN	4873190
Benz(a)anthracene	ND		3.8	1	01/23/09 14:51	YN	4873190
Benzo(a)pyrene	ND		3.8	1	01/23/09 14:51	YN	4873190
Benzo(b)fluoranthene	ND		3.8	1	01/23/09 14:51	YN	4873190
Benzo(g,h,i)perylene	ND		3.8	1	01/23/09 14:51	YN	4873190
Benzo(k)fluoranthene	ND		3.8	1	01/23/09 14:51	YN	4873190
Chrysene	ND		3.8	1	01/23/09 14:51	YN	4873190
Dibenzo(a,h)anthracene	ND		3.8	1	01/23/09 14:51	YN	4873190
Fluoranthene	ND		3.8	1	01/23/09 14:51	YN	4873190
Fluorene	ND		3.8	1	01/23/09 14:51	YN	4873190
Indeno(1,2,3-cd)pyrene	ND		3.8	1	01/23/09 14:51	YN	4873190
Naphthalene	ND		3.8	1	01/23/09 14:51	YN	4873190
Phenanthrene	ND		3.8	1	01/23/09 14:51	YN	4873190
Pyrene	ND		3.8	1	01/23/09 14:51	YN	4873190
Surr: 1-Fluoronaphthalene	22.4		% 10-115	1	01/23/09 14:51	YN	4873190
Surr: Phenanthrene-d10	49.8		% 16-122	1	01/23/09 14:51	YN	4873190

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/22/2009 14:57	LLL	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901500-03B

Collected: 01/16/2009 10:37

SPL Sample ID: 09010718-03

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	14.2		0	1	01/20/09 15:26	EB1	4867326
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	ND		3.8	1	01/23/09 15:30	YN	4873191
2-Methylnaphthalene	ND		3.8	1	01/23/09 15:30	YN	4873191
Acenaphthene	ND		3.8	1	01/23/09 15:30	YN	4873191
Acenaphthylene	ND		3.8	1	01/23/09 15:30	YN	4873191
Anthracene	ND		3.8	1	01/23/09 15:30	YN	4873191
Benz(a)anthracene	ND		3.8	1	01/23/09 15:30	YN	4873191
Benzo(a)pyrene	ND		3.8	1	01/23/09 15:30	YN	4873191
Benzo(b)fluoranthene	ND		3.8	1	01/23/09 15:30	YN	4873191
Benzo(g,h,i)perylene	ND		3.8	1	01/23/09 15:30	YN	4873191
Benzo(k)fluoranthene	ND		3.8	1	01/23/09 15:30	YN	4873191
Chrysene	ND		3.8	1	01/23/09 15:30	YN	4873191
Dibenzo(a,h)anthracene	ND		3.8	1	01/23/09 15:30	YN	4873191
Fluoranthene	ND		3.8	1	01/23/09 15:30	YN	4873191
Fluorene	ND		3.8	1	01/23/09 15:30	YN	4873191
Indeno(1,2,3-cd)pyrene	ND		3.8	1	01/23/09 15:30	YN	4873191
Naphthalene	ND		3.8	1	01/23/09 15:30	YN	4873191
Phenanthrene	ND		3.8	1	01/23/09 15:30	YN	4873191
Pyrene	ND		3.8	1	01/23/09 15:30	YN	4873191
Surr: 1-Fluoronaphthalene	15.8		% 10-115	1	01/23/09 15:30	YN	4873191
Surr: Phenanthrene-d10	33.1		% 16-122	1	01/23/09 15:30	YN	4873191

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/22/2009 14:57	LLL	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901500-04B

Collected: 01/16/2009 11:34

SPL Sample ID: 09010718-04

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	8.48		0	1	01/20/09 15:26	EB1	4873225
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	ND		3.6	1	01/23/09 16:09	YN	4873229
2-Methylnaphthalene	ND		3.6	1	01/23/09 16:09	YN	4873229
Acenaphthene	ND		3.6	1	01/23/09 16:09	YN	4873229
Acenaphthylene	ND		3.6	1	01/23/09 16:09	YN	4873229
Anthracene	ND		3.6	1	01/23/09 16:09	YN	4873229
Benz(a)anthracene	ND		3.6	1	01/23/09 16:09	YN	4873229
Benzo(a)pyrene	ND		3.6	1	01/23/09 16:09	YN	4873229
Benzo(b)fluoranthene	ND		3.6	1	01/23/09 16:09	YN	4873229
Benzo(g,h,i)perylene	ND		3.6	1	01/23/09 16:09	YN	4873229
Benzo(k)fluoranthene	ND		3.6	1	01/23/09 16:09	YN	4873229
Chrysene	ND		3.6	1	01/23/09 16:09	YN	4873229
Dibenzo(a,h)anthracene	ND		3.6	1	01/23/09 16:09	YN	4873229
Fluoranthene	ND		3.6	1	01/23/09 16:09	YN	4873229
Fluorene	ND		3.6	1	01/23/09 16:09	YN	4873229
Indeno(1,2,3-cd)pyrene	ND		3.6	1	01/23/09 16:09	YN	4873229
Naphthalene	ND		3.6	1	01/23/09 16:09	YN	4873229
Phenanthrene	ND		3.6	1	01/23/09 16:09	YN	4873229
Pyrene	ND		3.6	1	01/23/09 16:09	YN	4873229
Surr: 1-Fluoronaphthalene	31.7		% 10-115	1	01/23/09 16:09	YN	4873229
Surr: Phenanthrene-d10	50.3		% 16-122	1	01/23/09 16:09	YN	4873229

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/22/2009 14:57	LLL	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID 0901500-05B

Collected: 01/16/2009 13:15 SPL Sample ID: 09010718-05

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	12.8		0	1	01/20/09 15:26	EB1	4867324
POLYNUCLEAR AROMATIC HYDROCARBONS				MCL	SW8310	Units: ug/Kg-dry	
1-Methylnaphthalene	ND		3.8	1	01/23/09 16:52	YN	4874491
2-Methylnaphthalene	ND		3.8	1	01/23/09 16:52	YN	4874491
Acenaphthene	ND		3.8	1	01/23/09 16:52	YN	4874491
Acenaphthylene	ND		3.8	1	01/23/09 16:52	YN	4874491
Anthracene	ND		3.8	1	01/23/09 16:52	YN	4874491
Benzo(a)anthracene	ND		3.8	1	01/23/09 16:52	YN	4874491
Benzo(a)pyrene	ND		3.8	1	01/23/09 16:52	YN	4874491
Benzo(b)fluoranthene	ND		3.8	1	01/23/09 16:52	YN	4874491
Benzo(g,h,i)perylene	ND		3.8	1	01/23/09 16:52	YN	4874491
Benzo(k)fluoranthene	ND		3.8	1	01/23/09 16:52	YN	4874491
Chrysene	ND		3.8	1	01/23/09 16:52	YN	4874491
Dibenzo(a,h)anthracene	ND		3.8	1	01/23/09 16:52	YN	4874491
Fluoranthene	ND		3.8	1	01/23/09 16:52	YN	4874491
Fluorene	ND		3.8	1	01/23/09 16:52	YN	4874491
Indeno(1,2,3-cd)pyrene	ND		3.8	1	01/23/09 16:52	YN	4874491
Naphthalene	ND		3.8	1	01/23/09 16:52	YN	4874491
Phenanthrene	ND		3.8	1	01/23/09 16:52	YN	4874491
Pyrene	ND		3.8	1	01/23/09 16:52	YN	4874491
Surr: 1-Fluoronaphthalene	46.9		% 10-115	1	01/23/09 16:52	YN	4874491
Surr: Phenanthrene-d10	57.9		% 16-122	1	01/23/09 16:52	YN	4874491

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	01/22/2009 14:57	LLL	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010718
Lab Batch ID: 87278

Method Blank

Samples in Analytical Batch:

RunID: 2_090123A-4872639 Units: ug/Kg
Analysis Date: 01/23/2009 12:54 Analyst: YN
Preparation Date: 01/22/2009 14:57 Prep By: LLL Method SW3550B

Lab Sample ID Client Sample ID
09010718-01A 0901500-01B
09010718-02A 0901500-02B
09010718-03A 0901500-03B
09010718-04A 0901500-04B
09010718-05A 0901500-05B

Table with 3 columns: Analyte, Result, Rep Limit. Lists various polynuclear aromatic hydrocarbons and their results (mostly ND) and reporting limits (3.3).

Laboratory Control Sample (LCS)

RunID: 2_090123A-4872640 Units: ug/Kg
Analysis Date: 01/23/2009 13:33 Analyst: YN
Preparation Date: 01/22/2009 14:57 Prep By: LLL Method SW3550B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows recovery data for various PAHs.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010718
Lab Batch ID: 87278

Laboratory Control Sample (LCS)

RunID: 2_090123A-4872640 Units: ug/Kg
Analysis Date: 01/23/2009 13:33 Analyst: YN
Preparation Date: 01/22/2009 14:57 Prep By: LLL Method SW3550B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, and two Surr: entries.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010718-01
RunID: 2_090123A-4874492 Units: ug/Kg-dry
Analysis Date: 01/23/2009 17:35 Analyst: YN
Preparation Date: 01/22/2009 14:57 Prep By: LLL Method SW3550B

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows list various PAHs and their corresponding values.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Polynuclear Aromatic Hydrocarbons
Method: SW8310

WorkOrder: 09010718
Lab Batch ID: 87278

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09010718-01
RunID: 2_090123A-4874492 Units: ug/Kg-dry
Analysis Date: 01/23/2009 17:35 Analyst: YN
Preparation Date: 01/22/2009 14:57 Prep By: LLL Method SW3550B

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, and Surr: 1-Fluoronaphthalene, Surr: Phenanthrene-d10.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.
0901500

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 09010718
Lab Batch ID: R262898

Samples in Analytical Batch:

Table with 2 columns: Lab Sample ID, Client Sample ID. Rows include 09010718-01A through 09010718-05A and their corresponding client IDs.

Sample Duplicate

Original Sample: 09010482-01
RunID: WET_090120D-4867330 Units: wt%
Analysis Date: 01/20/2009 15:26 Analyst: EB1

Table with 5 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Row for Percent Moisture with values 30.7, 30.77, 0.142, 20.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Sample Receipt Checklist

Workorder:	09010718	Received By:	RE
Date and Time Received:	1/20/2009 9:30:00 AM	Carrier name:	SPL
Temperature:	3.5°C	Chilled by:	Water Ice

- 1. Shipping container/cooler in good condition? Yes No Not Present
- 2. Custody seals intact on shipping container/cooler? Yes No Not Present
- 3. Custody seals intact on sample bottles? Yes No Not Present
- 4. Chain of custody present? Yes No
- 5. Chain of custody signed when relinquished and received? Yes No
- 6. Chain of custody agrees with sample labels? Yes No
- 7. Samples in proper container/bottle? Yes No
- 8. Sample containers intact? Yes No
- 9. Sufficient sample volume for indicated test? Yes No
- 10. All samples received within holding time? Yes No
- 11. Container/Temp Blank temperature in compliance? Yes No
- 12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
- 13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

09010718

CHAIN-OF-CUSTODY RECORD

Turner Laboratories, Inc.

2445 North Coyote Drive
Suite #104
Tucson, AZ 85745
(520) 882-5880

Subcontractor:

Southern Petroleum Laboratories, Inc.
8880 Interchange Drive

TEL: (713) 660-0901
FAX: (713) 660-8975

19-Jan-09

Houston, TX 77054 Acct #:

Sample ID	Matrix	Collection Date	Bottle Type	SW8310	Requested Tests
0901500-01B	Soil	1/16/09 9:10:00 AM	BRASSLEEVE	1	
0901500-02B	Soil	1/16/09 10:26:00 AM	BRASSLEEVE	1	
0901500-03B	Soil	1/16/09 10:37:00 AM	BRASSLEEVE	1	
0901500-04B	Soil	1/16/09 11:34:00 AM	BRASSLEEVE	1	
0901500-05B	Soil	1/16/09 1:15:00 PM	BRASSLEEVE	1	

Comments: Please analyze for PAHs.

3.3c

Relinquished by: *Sam Wey*
Relinquished by:

Michael St

Date/Time: 1/19/09 1500
Received by: *Michael St*
Received by:

Date/Time: 1/20/09 0930
MS



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:

09010976

Report To: Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:	Project Name: 0901500 Site: Tucson, AZ Site Address: PO Number: State: Arizona State Cert. No.: AZ0050 Date Reported: 1/29/2009
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This Report Contains A Total Of 24 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/30/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Case Narrative for:
Turner Laboratories, Inc.

Certificate of Analysis Number:
09010976

<p>Report To:</p> <p>Turner Laboratories, Inc. Shari Bauman 2445 N. Coyote Drive Suite 104 Tucson AZ 85745- ph: (520) 882-5880 fax:</p>	<p>Project Name: 0901500</p> <p>Site: Tucson, AZ</p> <p>Site Address:</p> <p>PO Number:</p> <p>State: Arizona</p> <p>State Cert. No.: AZ0050</p> <p>Date Reported: 1/29/2009</p>
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Results are reported on a wet weight basis. Sample extracts were received and no containers were received to perform moisture analysis.

All samples in this report, analyzed for Volatile Organics by Method 8260B, required a dilution due to the sample matrix (methanol extraction). The samples are assigned the Arizona data qualifier D1.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Turner Laboratories, Inc.

Certificate of Analysis Number:

09010976

Report To: Turner Laboratories, Inc.
 Shari Bauman
 2445 N. Coyote Drive
 Suite 104
 Tucson
 AZ
 85745-
 ph: (520) 882-5880 fax: (520) 882-9788

Project Name: 0901500
Site: Tucson, AZ
Site Address:
PO Number:
State: Arizona
State Cert. No.: AZ0050
Date Reported: 1/29/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
0901500-01A	09010976-01	Soil	1/16/2009 9:10:00 AM	1/24/2009 9:30:00 AM		<input type="checkbox"/>
0901500-02A	09010976-02	Soil	1/16/2009 10:26:00 AM	1/24/2009 9:30:00 AM		<input type="checkbox"/>
0901500-03A	09010976-03	Soil	1/16/2009 10:37:00 AM	1/24/2009 9:30:00 AM		<input type="checkbox"/>
0901500-04A	09010976-04	Soil	1/16/2009 11:34:00 AM	1/24/2009 9:30:00 AM		<input type="checkbox"/>
0901500-05A	09010976-05	Soil	1/16/2009 3:15:00 PM	1/24/2009 9:30:00 AM		<input type="checkbox"/>

1/30/2009

Elessa Sommers
 Senior Project Manager

Date

Richard R. Reed
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-01A

Collected: 01/16/2009 9:10

SPL Sample ID: 09010976-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #			
								MCL	SW8260B	Units: ug/kg
VOLATILE ORGANICS BY METHOD 8260B										
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1,1-Trichloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1,2-Trichloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1-Dichloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1-Dichloroethene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,1-Dichloropropene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 17:55	E_G	4881393			
1,2,3-Trichloropropane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2,4-Trimethylbenzene	540		50	50	01/27/09 17:55	E_G	4881393			
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 17:55	E_G	4881393			
1,2-Dibromoethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2-Dichlorobenzene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2-Dichloroethane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,2-Dichloropropane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,3,5-Trimethylbenzene	180		50	50	01/27/09 17:55	E_G	4881393			
1,3-Butadiene	ND		500	50	01/27/09 17:55	E_G	4881393			
1,3-Dichlorobenzene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,3-Dichloropropane	ND		50	50	01/27/09 17:55	E_G	4881393			
1,4-Dichlorobenzene	ND		50	50	01/27/09 17:55	E_G	4881393			
1,4-Dioxane	ND		5000	50	01/27/09 17:55	E_G	4881393			
2,2,4-Trimethylpentane	ND		50	50	01/27/09 17:55	E_G	4881393			
2,2-Dichloropropane	ND		50	50	01/27/09 17:55	E_G	4881393			
2-Butanone	ND		250	50	01/27/09 17:55	E_G	4881393			
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 17:55	E_G	4881393			
2-Chlorotoluene	ND		50	50	01/27/09 17:55	E_G	4881393			
2-Hexanone	ND		250	50	01/27/09 17:55	E_G	4881393			
2-Nitropropane	ND		500	50	01/27/09 17:55	E_G	4881393			
4-Chlorotoluene	ND		50	50	01/27/09 17:55	E_G	4881393			
4-Isopropyltoluene	52		50	50	01/27/09 17:55	E_G	4881393			
4-Methyl-2-pentanone	ND		250	50	01/27/09 17:55	E_G	4881393			
Acetone	ND		500	50	01/27/09 17:55	E_G	4881393			
Acetonitrile	ND		1200	50	01/27/09 17:55	E_G	4881393			
Acrylonitrile	ND		500	50	01/27/09 17:55	E_G	4881393			
Allyl chloride	ND		250	50	01/27/09 17:55	E_G	4881393			
alpha-Methylstyrene	ND		250	50	01/27/09 17:55	E_G	4881393			
Benzene	ND		50	50	01/27/09 17:55	E_G	4881393			
Benzyl chloride	ND		1200	50	01/27/09 17:55	E_G	4881393			

Qualifiers: ND/U - Not Detected at the Reporting Limit
 BV - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-01A

Collected: 01/16/2009 9:10

SPL Sample ID: 09010976-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 17:55	E_G	4881393
Bromochloromethane	ND		50	50	01/27/09 17:55	E_G	4881393
Bromodichloromethane	ND		50	50	01/27/09 17:55	E_G	4881393
Bromoform	ND		50	50	01/27/09 17:55	E_G	4881393
Bromomethane	ND		50	50	01/27/09 17:55	E_G	4881393
Carbon disulfide	ND		50	50	01/27/09 17:55	E_G	4881393
Carbon tetrachloride	ND		50	50	01/27/09 17:55	E_G	4881393
Chlorobenzene	ND		50	50	01/27/09 17:55	E_G	4881393
Chloroethane	ND		50	50	01/27/09 17:55	E_G	4881393
Chloroform	ND		50	50	01/27/09 17:55	E_G	4881393
Chloromethane	ND		100	50	01/27/09 17:55	E_G	4881393
Crotonaldehyde	ND		25000	50	01/27/09 17:55	E_G	4881393
Cyclohexane	ND		50	50	01/27/09 17:55	E_G	4881393
Cyclohexanone	ND		10000	50	01/27/09 17:55	E_G	4881393
Dibromochloromethane	ND		50	50	01/27/09 17:55	E_G	4881393
Dibromomethane	ND		50	50	01/27/09 17:55	E_G	4881393
Dichlorodifluoromethane	ND		250	50	01/27/09 17:55	E_G	4881393
Dicyclopentadiene	ND		250	50	01/27/09 17:55	E_G	4881393
Diisopropyl Ether	ND		100	50	01/27/09 17:55	E_G	4881393
Epichlorohydrin	ND		500	50	01/27/09 17:55	E_G	4881393
Ethyl Acetate	ND		12000	50	01/27/09 17:55	E_G	4881393
Ethyl Cyanide	ND		500	50	01/27/09 17:55	E_G	4881393
Ethyl Ether	ND		250	50	01/27/09 17:55	E_G	4881393
Ethyl methacrylate	ND		500	50	01/27/09 17:55	E_G	4881393
Ethylbenzene	100		50	50	01/27/09 17:55	E_G	4881393
Freon-113	ND		250	50	01/27/09 17:55	E_G	4881393
Hexachlorobutadiene	ND		50	50	01/27/09 17:55	E_G	4881393
Hexane	ND		50	50	01/27/09 17:55	E_G	4881393
Iodomethane	ND		250	50	01/27/09 17:55	E_G	4881393
Isobutyl alcohol	ND		12000	50	01/27/09 17:55	E_G	4881393
Isopropylbenzene	ND		50	50	01/27/09 17:55	E_G	4881393
Methacrylonitrile	ND		250	50	01/27/09 17:55	E_G	4881393
Methyl acetate	ND		100	50	01/27/09 17:55	E_G	4881393
Methyl methacrylate	ND		250	50	01/27/09 17:55	E_G	4881393
Methyl tert-butyl ether	ND		50	50	01/27/09 17:55	E_G	4881393
Methylcyclohexane	ND		250	50	01/27/09 17:55	E_G	4881393
Methylene chloride	ND		50	50	01/27/09 17:55	E_G	4881393
Naphthalene	ND		250	50	01/27/09 17:55	E_G	4881393
n-Butanol	ND		12000	50	01/27/09 17:55	E_G	4881393
n-Butylbenzene	ND		50	50	01/27/09 17:55	E_G	4881393

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-01A

Collected: 01/16/2009 9:10

SPL Sample ID: 09010976-01

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	70		50	50	01/27/09 17:55	E_G	4881393
p-Diethylbenzene	ND		250	50	01/27/09 17:55	E_G	4881393
sec-Butylbenzene	ND		50	50	01/27/09 17:55	E_G	4881393
Styrene	ND		50	50	01/27/09 17:55	E_G	4881393
t-Butyl alcohol	ND		12000	50	01/27/09 17:55	E_G	4881393
tert-Amyl methyl ether	ND		100	50	01/27/09 17:55	E_G	4881393
tert-Butyl ethyl ether	ND		100	50	01/27/09 17:55	E_G	4881393
tert-Butylbenzene	ND		50	50	01/27/09 17:55	E_G	4881393
Tetrachloroethene	ND		50	50	01/27/09 17:55	E_G	4881393
Tetrahydrofuran	ND		250	50	01/27/09 17:55	E_G	4881393
Toluene	110		50	50	01/27/09 17:55	E_G	4881393
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 17:55	E_G	4881393
Trichloroethene	ND		50	50	01/27/09 17:55	E_G	4881393
Trichlorofluoromethane	ND		100	50	01/27/09 17:55	E_G	4881393
Vinyl acetate	ND		250	50	01/27/09 17:55	E_G	4881393
Vinyl chloride	ND		100	50	01/27/09 17:55	E_G	4881393
cis-1,2-Dichloroethene	ND		50	50	01/27/09 17:55	E_G	4881393
cis-1,3-Dichloropropene	ND		50	50	01/27/09 17:55	E_G	4881393
m,p-Xylene	480		50	50	01/27/09 17:55	E_G	4881393
o-Xylene	230		50	50	01/27/09 17:55	E_G	4881393
trans-1,2-Dichloroethene	ND		50	50	01/27/09 17:55	E_G	4881393
trans-1,3-Dichloropropene	ND		50	50	01/27/09 17:55	E_G	4881393
Xylenes, Total	710		50	50	01/27/09 17:55	E_G	4881393
1,2-Dichloroethene (total)	ND		50	50	01/27/09 17:55	E_G	4881393
1,3-Dichloropropene, Total	ND		50	50	01/27/09 17:55	E_G	4881393
Surr: Toluene-d8	101		% 70-140	50	01/27/09 17:55	E_G	4881393
Surr: 1,2-Dichloroethane-d4	100		% 64-130	50	01/27/09 17:55	E_G	4881393
Surr: 4-Bromofluorobenzene	101		% 62-130	50	01/27/09 17:55	E_G	4881393

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-02A

Collected: 01/16/2009 10:26 SPL Sample ID: 09010976-02

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg	
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,1,1-Trichloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,1,2-Trichloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,1-Dichloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,1-Dichloroethene	ND		50	50	01/27/09 18:22	E_G	4881394
1,1-Dichloropropene	ND		50	50	01/27/09 18:22	E_G	4881394
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 18:22	E_G	4881394
1,2,3-Trichloropropane	ND		50	50	01/27/09 18:22	E_G	4881394
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,2,4-Trimethylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 18:22	E_G	4881394
1,2-Dibromoethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,2-Dichlorobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,2-Dichloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
1,2-Dichloropropane	ND		50	50	01/27/09 18:22	E_G	4881394
1,3,5-Trimethylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,3-Butadiene	ND		500	50	01/27/09 18:22	E_G	4881394
1,3-Dichlorobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,3-Dichloropropane	ND		50	50	01/27/09 18:22	E_G	4881394
1,4-Dichlorobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
1,4-Dioxane	ND		5000	50	01/27/09 18:22	E_G	4881394
2,2,4-Trimethylpentane	ND		50	50	01/27/09 18:22	E_G	4881394
2,2-Dichloropropane	ND		50	50	01/27/09 18:22	E_G	4881394
2-Butanone	ND		250	50	01/27/09 18:22	E_G	4881394
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 18:22	E_G	4881394
2-Chlorotoluene	ND		50	50	01/27/09 18:22	E_G	4881394
2-Hexanone	ND		250	50	01/27/09 18:22	E_G	4881394
2-Nitropropane	ND		500	50	01/27/09 18:22	E_G	4881394
4-Chlorotoluene	ND		50	50	01/27/09 18:22	E_G	4881394
4-Isopropyltoluene	ND		50	50	01/27/09 18:22	E_G	4881394
4-Methyl-2-pentanone	ND		250	50	01/27/09 18:22	E_G	4881394
Acetone	ND		500	50	01/27/09 18:22	E_G	4881394
Acetonitrile	ND		1200	50	01/27/09 18:22	E_G	4881394
Acrylonitrile	ND		500	50	01/27/09 18:22	E_G	4881394
Allyl chloride	ND		250	50	01/27/09 18:22	E_G	4881394
alpha-Methylstyrene	ND		250	50	01/27/09 18:22	E_G	4881394
Benzene	ND		50	50	01/27/09 18:22	E_G	4881394
Benzyl chloride	ND		1200	50	01/27/09 18:22	E_G	4881394

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-02A

Collected: 01/16/2009 10:26 SPL Sample ID: 09010976-02

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Bromochloromethane	ND		50	50	01/27/09 18:22	E_G	4881394
Bromodichloromethane	ND		50	50	01/27/09 18:22	E_G	4881394
Bromoform	ND		50	50	01/27/09 18:22	E_G	4881394
Bromomethane	ND		50	50	01/27/09 18:22	E_G	4881394
Carbon disulfide	ND		50	50	01/27/09 18:22	E_G	4881394
Carbon tetrachloride	ND		50	50	01/27/09 18:22	E_G	4881394
Chlorobenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Chloroethane	ND		50	50	01/27/09 18:22	E_G	4881394
Chloroform	ND		50	50	01/27/09 18:22	E_G	4881394
Chloromethane	ND		100	50	01/27/09 18:22	E_G	4881394
Crotonaldehyde	ND		25000	50	01/27/09 18:22	E_G	4881394
Cyclohexane	ND		50	50	01/27/09 18:22	E_G	4881394
Cyclohexanone	ND		10000	50	01/27/09 18:22	E_G	4881394
Dibromochloromethane	ND		50	50	01/27/09 18:22	E_G	4881394
Dibromomethane	ND		50	50	01/27/09 18:22	E_G	4881394
Dichlorodifluoromethane	ND		250	50	01/27/09 18:22	E_G	4881394
Dicyclopentadiene	ND		250	50	01/27/09 18:22	E_G	4881394
Diisopropyl Ether	ND		100	50	01/27/09 18:22	E_G	4881394
Epichlorohydrin	ND		500	50	01/27/09 18:22	E_G	4881394
Ethyl Acetate	ND		12000	50	01/27/09 18:22	E_G	4881394
Ethyl Cyanide	ND		500	50	01/27/09 18:22	E_G	4881394
Ethyl Ether	ND		250	50	01/27/09 18:22	E_G	4881394
Ethyl methacrylate	ND		500	50	01/27/09 18:22	E_G	4881394
Ethylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Freon-113	ND		250	50	01/27/09 18:22	E_G	4881394
Hexachlorobutadiene	ND		50	50	01/27/09 18:22	E_G	4881394
Hexane	ND		50	50	01/27/09 18:22	E_G	4881394
Iodomethane	ND		250	50	01/27/09 18:22	E_G	4881394
Isobutyl alcohol	ND		12000	50	01/27/09 18:22	E_G	4881394
Isopropylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Methacrylonitrile	ND		250	50	01/27/09 18:22	E_G	4881394
Methyl acetate	ND		100	50	01/27/09 18:22	E_G	4881394
Methyl methacrylate	ND		250	50	01/27/09 18:22	E_G	4881394
Methyl tert-butyl ether	ND		50	50	01/27/09 18:22	E_G	4881394
Methylcyclohexane	ND		250	50	01/27/09 18:22	E_G	4881394
Methylene chloride	ND		50	50	01/27/09 18:22	E_G	4881394
Naphthalene	ND		250	50	01/27/09 18:22	E_G	4881394
n-Butanol	ND		12000	50	01/27/09 18:22	E_G	4881394
n-Butylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-02A

Collected: 01/16/2009 10:26 SPL Sample ID: 09010976-02

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
p-Diethylbenzene	ND		250	50	01/27/09 18:22	E_G	4881394
sec-Butylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Styrene	ND		50	50	01/27/09 18:22	E_G	4881394
t-Butyl alcohol	ND		12000	50	01/27/09 18:22	E_G	4881394
tert-Amyl methyl ether	ND		100	50	01/27/09 18:22	E_G	4881394
tert-Butyl ethyl ether	ND		100	50	01/27/09 18:22	E_G	4881394
tert-Butylbenzene	ND		50	50	01/27/09 18:22	E_G	4881394
Tetrachloroethene	ND		50	50	01/27/09 18:22	E_G	4881394
Tetrahydrofuran	ND		250	50	01/27/09 18:22	E_G	4881394
Toluene	ND		50	50	01/27/09 18:22	E_G	4881394
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 18:22	E_G	4881394
Trichloroethene	ND		50	50	01/27/09 18:22	E_G	4881394
Trichlorofluoromethane	ND		100	50	01/27/09 18:22	E_G	4881394
Vinyl acetate	ND		250	50	01/27/09 18:22	E_G	4881394
Vinyl chloride	ND		100	50	01/27/09 18:22	E_G	4881394
cis-1,2-Dichloroethene	ND		50	50	01/27/09 18:22	E_G	4881394
cis-1,3-Dichloropropene	ND		50	50	01/27/09 18:22	E_G	4881394
m,p-Xylene	ND		50	50	01/27/09 18:22	E_G	4881394
o-Xylene	ND		50	50	01/27/09 18:22	E_G	4881394
trans-1,2-Dichloroethene	ND		50	50	01/27/09 18:22	E_G	4881394
trans-1,3-Dichloropropene	ND		50	50	01/27/09 18:22	E_G	4881394
Xylenes, Total	ND		50	50	01/27/09 18:22	E_G	4881394
1,2-Dichloroethene (total)	ND		50	50	01/27/09 18:22	E_G	4881394
1,3-Dichloropropene, Total	ND		50	50	01/27/09 18:22	E_G	4881394
Surr: Toluene-d8	98.8		% 70-140	50	01/27/09 18:22	E_G	4881394
Surr: 1,2-Dichloroethane-d4	100		% 64-130	50	01/27/09 18:22	E_G	4881394
Surr: 4-Bromofluorobenzene	98.8		% 62-130	50	01/27/09 18:22	E_G	4881394

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-03A

Collected: 01/16/2009 10:37 SPL Sample ID: 09010976-03

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/kg		
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,1,1-Trichloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,1,2-Trichloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,1-Dichloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,1-Dichloroethene	ND		50	50	01/27/09 18:48	E_G	4881395
1,1-Dichloropropene	ND		50	50	01/27/09 18:48	E_G	4881395
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 18:48	E_G	4881395
1,2,3-Trichloropropane	ND		50	50	01/27/09 18:48	E_G	4881395
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,2,4-Trimethylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 18:48	E_G	4881395
1,2-Dibromoethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,2-Dichlorobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,2-Dichloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
1,2-Dichloropropane	ND		50	50	01/27/09 18:48	E_G	4881395
1,3,5-Trimethylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,3-Butadiene	ND		500	50	01/27/09 18:48	E_G	4881395
1,3-Dichlorobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,3-Dichloropropane	ND		50	50	01/27/09 18:48	E_G	4881395
1,4-Dichlorobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
1,4-Dioxane	ND		5000	50	01/27/09 18:48	E_G	4881395
2,2,4-Trimethylpentane	ND		50	50	01/27/09 18:48	E_G	4881395
2,2-Dichloropropane	ND		50	50	01/27/09 18:48	E_G	4881395
2-Butanone	ND		250	50	01/27/09 18:48	E_G	4881395
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 18:48	E_G	4881395
2-Chlorotoluene	ND		50	50	01/27/09 18:48	E_G	4881395
2-Hexanone	ND		250	50	01/27/09 18:48	E_G	4881395
2-Nitropropane	ND		500	50	01/27/09 18:48	E_G	4881395
4-Chlorotoluene	ND		50	50	01/27/09 18:48	E_G	4881395
4-Isopropyltoluene	ND		50	50	01/27/09 18:48	E_G	4881395
4-Methyl-2-pentanone	ND		250	50	01/27/09 18:48	E_G	4881395
Acetone	ND		500	50	01/27/09 18:48	E_G	4881395
Acetonitrile	ND		1200	50	01/27/09 18:48	E_G	4881395
Acrylonitrile	ND		500	50	01/27/09 18:48	E_G	4881395
Allyl chloride	ND		250	50	01/27/09 18:48	E_G	4881395
alpha-Methylstyrene	ND		250	50	01/27/09 18:48	E_G	4881395
Benzene	ND		50	50	01/27/09 18:48	E_G	4881395
Benzyl chloride	ND		1200	50	01/27/09 18:48	E_G	4881395

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-03A

Collected: 01/16/2009 10:37 SPL Sample ID: 09010976-03

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Bromochloromethane	ND		50	50	01/27/09 18:48	E_G	4881395
Bromodichloromethane	ND		50	50	01/27/09 18:48	E_G	4881395
Bromoform	ND		50	50	01/27/09 18:48	E_G	4881395
Bromomethane	ND		50	50	01/27/09 18:48	E_G	4881395
Carbon disulfide	ND		50	50	01/27/09 18:48	E_G	4881395
Carbon tetrachloride	ND		50	50	01/27/09 18:48	E_G	4881395
Chlorobenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Chloroethane	ND		50	50	01/27/09 18:48	E_G	4881395
Chloroform	ND		50	50	01/27/09 18:48	E_G	4881395
Chloromethane	ND		100	50	01/27/09 18:48	E_G	4881395
Crotonaldehyde	ND		25000	50	01/27/09 18:48	E_G	4881395
Cyclohexane	ND		50	50	01/27/09 18:48	E_G	4881395
Cyclohexanone	ND		10000	50	01/27/09 18:48	E_G	4881395
Dibromochloromethane	ND		50	50	01/27/09 18:48	E_G	4881395
Dibromomethane	ND		50	50	01/27/09 18:48	E_G	4881395
Dichlorodifluoromethane	ND		250	50	01/27/09 18:48	E_G	4881395
Dicyclopentadiene	ND		250	50	01/27/09 18:48	E_G	4881395
Diisopropyl Ether	ND		100	50	01/27/09 18:48	E_G	4881395
Epichlorohydrin	ND		500	50	01/27/09 18:48	E_G	4881395
Ethyl Acetate	ND		12000	50	01/27/09 18:48	E_G	4881395
Ethyl Cyanide	ND		500	50	01/27/09 18:48	E_G	4881395
Ethyl Ether	ND		250	50	01/27/09 18:48	E_G	4881395
Ethyl methacrylate	ND		500	50	01/27/09 18:48	E_G	4881395
Ethylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Freon-113	ND		250	50	01/27/09 18:48	E_G	4881395
Hexachlorobutadiene	ND		50	50	01/27/09 18:48	E_G	4881395
Hexane	ND		50	50	01/27/09 18:48	E_G	4881395
Iodomethane	ND		250	50	01/27/09 18:48	E_G	4881395
Isobutyl alcohol	ND		12000	50	01/27/09 18:48	E_G	4881395
Isopropylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Methacrylonitrile	ND		250	50	01/27/09 18:48	E_G	4881395
Methyl acetate	ND		100	50	01/27/09 18:48	E_G	4881395
Methyl methacrylate	ND		250	50	01/27/09 18:48	E_G	4881395
Methyl tert-butyl ether	ND		50	50	01/27/09 18:48	E_G	4881395
Methylcyclohexane	ND		250	50	01/27/09 18:48	E_G	4881395
Methylene chloride	ND		50	50	01/27/09 18:48	E_G	4881395
Naphthalene	ND		250	50	01/27/09 18:48	E_G	4881395
n-Butanol	ND		12000	50	01/27/09 18:48	E_G	4881395
n-Butylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-03A

Collected: 01/16/2009 10:37

SPL Sample ID: 09010976-03

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
p-Diethylbenzene	ND		250	50	01/27/09 18:48	E_G	4881395
sec-Butylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Styrene	ND		50	50	01/27/09 18:48	E_G	4881395
t-Butyl alcohol	ND		12000	50	01/27/09 18:48	E_G	4881395
tert-Amyl methyl ether	ND		100	50	01/27/09 18:48	E_G	4881395
tert-Butyl ethyl ether	ND		100	50	01/27/09 18:48	E_G	4881395
tert-Butylbenzene	ND		50	50	01/27/09 18:48	E_G	4881395
Tetrachloroethene	ND		50	50	01/27/09 18:48	E_G	4881395
Tetrahydrofuran	ND		250	50	01/27/09 18:48	E_G	4881395
Toluene	ND		50	50	01/27/09 18:48	E_G	4881395
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 18:48	E_G	4881395
Trichloroethene	ND		50	50	01/27/09 18:48	E_G	4881395
Trichlorofluoromethane	ND		100	50	01/27/09 18:48	E_G	4881395
Vinyl acetate	ND		250	50	01/27/09 18:48	E_G	4881395
Vinyl chloride	ND		100	50	01/27/09 18:48	E_G	4881395
cis-1,2-Dichloroethene	ND		50	50	01/27/09 18:48	E_G	4881395
cis-1,3-Dichloropropene	ND		50	50	01/27/09 18:48	E_G	4881395
m,p-Xylene	ND		50	50	01/27/09 18:48	E_G	4881395
o-Xylene	ND		50	50	01/27/09 18:48	E_G	4881395
trans-1,2-Dichloroethene	ND		50	50	01/27/09 18:48	E_G	4881395
trans-1,3-Dichloropropene	ND		50	50	01/27/09 18:48	E_G	4881395
Xylenes, Total	ND		50	50	01/27/09 18:48	E_G	4881395
1,2-Dichloroethene (total)	ND		50	50	01/27/09 18:48	E_G	4881395
1,3-Dichloropropene, Total	ND		50	50	01/27/09 18:48	E_G	4881395
Surr: Toluene-d8	101		% 70-140	50	01/27/09 18:48	E_G	4881395
Surr: 1,2-Dichloroethane-d4	100		% 64-130	50	01/27/09 18:48	E_G	4881395
Surr: 4-Bromofluorobenzene	98.8		% 62-130	50	01/27/09 18:48	E_G	4881395

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-04A

Collected: 01/16/2009 11:34 SPL Sample ID: 09010976-04

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg	
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,1,1-Trichloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,1,2-Trichloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,1-Dichloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,1-Dichloroethene	ND		50	50	01/27/09 19:15	E_G	4881396
1,1-Dichloropropene	ND		50	50	01/27/09 19:15	E_G	4881396
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 19:15	E_G	4881396
1,2,3-Trichloropropane	ND		50	50	01/27/09 19:15	E_G	4881396
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,2,4-Trimethylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 19:15	E_G	4881396
1,2-Dibromoethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,2-Dichlorobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,2-Dichloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
1,2-Dichloropropane	ND		50	50	01/27/09 19:15	E_G	4881396
1,3,5-Trimethylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,3-Butadiene	ND		500	50	01/27/09 19:15	E_G	4881396
1,3-Dichlorobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,3-Dichloropropane	ND		50	50	01/27/09 19:15	E_G	4881396
1,4-Dichlorobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
1,4-Dioxane	ND		5000	50	01/27/09 19:15	E_G	4881396
2,2,4-Trimethylpentane	ND		50	50	01/27/09 19:15	E_G	4881396
2,2-Dichloropropane	ND		50	50	01/27/09 19:15	E_G	4881396
2-Butanone	ND		250	50	01/27/09 19:15	E_G	4881396
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 19:15	E_G	4881396
2-Chlorotoluene	ND		50	50	01/27/09 19:15	E_G	4881396
2-Hexanone	ND		250	50	01/27/09 19:15	E_G	4881396
2-Nitropropane	ND		500	50	01/27/09 19:15	E_G	4881396
4-Chlorotoluene	ND		50	50	01/27/09 19:15	E_G	4881396
4-Isopropyltoluene	ND		50	50	01/27/09 19:15	E_G	4881396
4-Methyl-2-pentanone	ND		250	50	01/27/09 19:15	E_G	4881396
Acetone	ND		500	50	01/27/09 19:15	E_G	4881396
Acetonitrile	ND		1200	50	01/27/09 19:15	E_G	4881396
Acrylonitrile	ND		500	50	01/27/09 19:15	E_G	4881396
Allyl chloride	ND		250	50	01/27/09 19:15	E_G	4881396
alpha-Methylstyrene	ND		250	50	01/27/09 19:15	E_G	4881396
Benzene	ND		50	50	01/27/09 19:15	E_G	4881396
Benzyl chloride	ND		1200	50	01/27/09 19:15	E_G	4881396

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-04A

Collected: 01/16/2009 11:34 SPL Sample ID: 09010976-04

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Bromochloromethane	ND		50	50	01/27/09 19:15	E_G	4881396
Bromodichloromethane	ND		50	50	01/27/09 19:15	E_G	4881396
Bromoform	ND		50	50	01/27/09 19:15	E_G	4881396
Bromomethane	ND		50	50	01/27/09 19:15	E_G	4881396
Carbon disulfide	ND		50	50	01/27/09 19:15	E_G	4881396
Carbon tetrachloride	ND		50	50	01/27/09 19:15	E_G	4881396
Chlorobenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Chloroethane	ND		50	50	01/27/09 19:15	E_G	4881396
Chloroform	ND		50	50	01/27/09 19:15	E_G	4881396
Chloromethane	ND		100	50	01/27/09 19:15	E_G	4881396
Crotonaldehyde	ND		25000	50	01/27/09 19:15	E_G	4881396
Cyclohexane	ND		50	50	01/27/09 19:15	E_G	4881396
Cyclohexanone	ND		10000	50	01/27/09 19:15	E_G	4881396
Dibromochloromethane	ND		50	50	01/27/09 19:15	E_G	4881396
Dibromomethane	ND		50	50	01/27/09 19:15	E_G	4881396
Dichlorodifluoromethane	ND		250	50	01/27/09 19:15	E_G	4881396
Dicyclopentadiene	ND		250	50	01/27/09 19:15	E_G	4881396
Diisopropyl Ether	ND		100	50	01/27/09 19:15	E_G	4881396
Epichlorohydrin	ND		500	50	01/27/09 19:15	E_G	4881396
Ethyl Acetate	ND		12000	50	01/27/09 19:15	E_G	4881396
Ethyl Cyanide	ND		500	50	01/27/09 19:15	E_G	4881396
Ethyl Ether	ND		250	50	01/27/09 19:15	E_G	4881396
Ethyl methacrylate	ND		500	50	01/27/09 19:15	E_G	4881396
Ethylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Freon-113	ND		250	50	01/27/09 19:15	E_G	4881396
Hexachlorobutadiene	ND		50	50	01/27/09 19:15	E_G	4881396
Hexane	ND		50	50	01/27/09 19:15	E_G	4881396
Iodomethane	ND		250	50	01/27/09 19:15	E_G	4881396
Isobutyl alcohol	ND		12000	50	01/27/09 19:15	E_G	4881396
Isopropylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Methacrylonitrile	ND		250	50	01/27/09 19:15	E_G	4881396
Methyl acetate	ND		100	50	01/27/09 19:15	E_G	4881396
Methyl methacrylate	ND		250	50	01/27/09 19:15	E_G	4881396
Methyl tert-butyl ether	ND		50	50	01/27/09 19:15	E_G	4881396
Methylcyclohexane	ND		250	50	01/27/09 19:15	E_G	4881396
Methylene chloride	ND		50	50	01/27/09 19:15	E_G	4881396
Naphthalene	ND		250	50	01/27/09 19:15	E_G	4881396
n-Butanol	ND		12000	50	01/27/09 19:15	E_G	4881396
n-Butylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-04A

Collected: 01/16/2009 11:34 SPL Sample ID: 09010976-04

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
p-Diethylbenzene	ND		250	50	01/27/09 19:15	E_G	4881396
sec-Butylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Styrene	ND		50	50	01/27/09 19:15	E_G	4881396
t-Butyl alcohol	ND		12000	50	01/27/09 19:15	E_G	4881396
tert-Amyl methyl ether	ND		100	50	01/27/09 19:15	E_G	4881396
tert-Butyl ethyl ether	ND		100	50	01/27/09 19:15	E_G	4881396
tert-Butylbenzene	ND		50	50	01/27/09 19:15	E_G	4881396
Tetrachloroethene	ND		50	50	01/27/09 19:15	E_G	4881396
Tetrahydrofuran	ND		250	50	01/27/09 19:15	E_G	4881396
Toluene	ND		50	50	01/27/09 19:15	E_G	4881396
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 19:15	E_G	4881396
Trichloroethene	ND		50	50	01/27/09 19:15	E_G	4881396
Trichlorofluoromethane	ND		100	50	01/27/09 19:15	E_G	4881396
Vinyl acetate	ND		250	50	01/27/09 19:15	E_G	4881396
Vinyl chloride	ND		100	50	01/27/09 19:15	E_G	4881396
cis-1,2-Dichloroethene	ND		50	50	01/27/09 19:15	E_G	4881396
cis-1,3-Dichloropropene	ND		50	50	01/27/09 19:15	E_G	4881396
m,p-Xylene	ND		50	50	01/27/09 19:15	E_G	4881396
o-Xylene	ND		50	50	01/27/09 19:15	E_G	4881396
trans-1,2-Dichloroethene	ND		50	50	01/27/09 19:15	E_G	4881396
trans-1,3-Dichloropropene	ND		50	50	01/27/09 19:15	E_G	4881396
Xylenes, Total	ND		50	50	01/27/09 19:15	E_G	4881396
1,2-Dichloroethene (total)	ND		50	50	01/27/09 19:15	E_G	4881396
1,3-Dichloropropene, Total	ND		50	50	01/27/09 19:15	E_G	4881396
Surr: Toluene-d8	101		% 70-140	50	01/27/09 19:15	E_G	4881396
Surr: 1,2-Dichloroethane-d4	104		% 64-130	50	01/27/09 19:15	E_G	4881396
Surr: 4-Bromofluorobenzene	98.8		% 62-130	50	01/27/09 19:15	E_G	4881396

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers:

- ND/U - Not Detected at the Reporting Limit
- B/V - Analyte detected in the associated Method Blank
- * - Surrogate Recovery Outside Advisable QC Limits
- J - Estimated Value between MDL and PQL
- E - Estimated Value exceeds calibration curve
- TNTC - Too numerous to count
- >MCL - Result Over Maximum Contamination Limit(MCL)
- D - Surrogate Recovery Unreportable due to Dilution
- MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID: 0901500-05A

Collected: 01/16/2009 15:15 SPL Sample ID: 09010976-05

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/kg		
1,1,1,2-Tetrachloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,1,1-Trichloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,1,2,2-Tetrachloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,1,2-Trichloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,1-Dichloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,1-Dichloroethene	ND		50	50	01/27/09 19:42	E_G	4881397
1,1-Dichloropropene	ND		50	50	01/27/09 19:42	E_G	4881397
1,2,3-Trichlorobenzene	ND		250	50	01/27/09 19:42	E_G	4881397
1,2,3-Trichloropropane	ND		50	50	01/27/09 19:42	E_G	4881397
1,2,4-Trichlorobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,2,4-Trimethylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,2-Dibromo-3-chloropropane	ND		250	50	01/27/09 19:42	E_G	4881397
1,2-Dibromoethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,2-Dichlorobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,2-Dichloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
1,2-Dichloropropane	ND		50	50	01/27/09 19:42	E_G	4881397
1,3,5-Trimethylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,3-Butadiene	ND		500	50	01/27/09 19:42	E_G	4881397
1,3-Dichlorobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,3-Dichloropropane	ND		50	50	01/27/09 19:42	E_G	4881397
1,4-Dichlorobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
1,4-Dioxane	ND		5000	50	01/27/09 19:42	E_G	4881397
2,2,4-Trimethylpentane	ND		50	50	01/27/09 19:42	E_G	4881397
2,2-Dichloropropane	ND		50	50	01/27/09 19:42	E_G	4881397
2-Butanone	ND		250	50	01/27/09 19:42	E_G	4881397
2-Chloroethyl vinyl ether	ND		250	50	01/27/09 19:42	E_G	4881397
2-Chlorotoluene	ND		50	50	01/27/09 19:42	E_G	4881397
2-Hexanone	ND		250	50	01/27/09 19:42	E_G	4881397
2-Nitropropane	ND		500	50	01/27/09 19:42	E_G	4881397
4-Chlorotoluene	ND		50	50	01/27/09 19:42	E_G	4881397
4-Isopropyltoluene	ND		50	50	01/27/09 19:42	E_G	4881397
4-Methyl-2-pentanone	ND		250	50	01/27/09 19:42	E_G	4881397
Acetone	ND		500	50	01/27/09 19:42	E_G	4881397
Acetonitrile	ND		1200	50	01/27/09 19:42	E_G	4881397
Acrylonitrile	ND		500	50	01/27/09 19:42	E_G	4881397
Allyl chloride	ND		250	50	01/27/09 19:42	E_G	4881397
alpha-Methylstyrene	ND		250	50	01/27/09 19:42	E_G	4881397
Benzene	ND		50	50	01/27/09 19:42	E_G	4881397
Benzyl chloride	ND		1200	50	01/27/09 19:42	E_G	4881397

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:0901500-05A

Collected: 01/16/2009 15:15

SPL Sample ID: 09010976-05

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bromobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Bromochloromethane	ND		50	50	01/27/09 19:42	E_G	4881397
Bromodichloromethane	ND		50	50	01/27/09 19:42	E_G	4881397
Bromoform	ND		50	50	01/27/09 19:42	E_G	4881397
Bromomethane	ND		50	50	01/27/09 19:42	E_G	4881397
Carbon disulfide	ND		50	50	01/27/09 19:42	E_G	4881397
Carbon tetrachloride	ND		50	50	01/27/09 19:42	E_G	4881397
Chlorobenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Chloroethane	ND		50	50	01/27/09 19:42	E_G	4881397
Chloroform	ND		50	50	01/27/09 19:42	E_G	4881397
Chloromethane	ND		100	50	01/27/09 19:42	E_G	4881397
Crotonaldehyde	ND		25000	50	01/27/09 19:42	E_G	4881397
Cyclohexane	ND		50	50	01/27/09 19:42	E_G	4881397
Cyclohexanone	ND		10000	50	01/27/09 19:42	E_G	4881397
Dibromochloromethane	ND		50	50	01/27/09 19:42	E_G	4881397
Dibromomethane	ND		50	50	01/27/09 19:42	E_G	4881397
Dichlorodifluoromethane	ND		250	50	01/27/09 19:42	E_G	4881397
Dicyclopentadiene	ND		250	50	01/27/09 19:42	E_G	4881397
Diisopropyl Ether	ND		100	50	01/27/09 19:42	E_G	4881397
Epichlorohydrin	ND		500	50	01/27/09 19:42	E_G	4881397
Ethyl Acetate	ND		12000	50	01/27/09 19:42	E_G	4881397
Ethyl Cyanide	ND		500	50	01/27/09 19:42	E_G	4881397
Ethyl Ether	ND		250	50	01/27/09 19:42	E_G	4881397
Ethyl methacrylate	ND		500	50	01/27/09 19:42	E_G	4881397
Ethylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Freon-113	ND		250	50	01/27/09 19:42	E_G	4881397
Hexachlorobutadiene	ND		50	50	01/27/09 19:42	E_G	4881397
Hexane	ND		50	50	01/27/09 19:42	E_G	4881397
Iodomethane	ND		250	50	01/27/09 19:42	E_G	4881397
Isobutyl alcohol	ND		12000	50	01/27/09 19:42	E_G	4881397
Isopropylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Methacrylonitrile	ND		250	50	01/27/09 19:42	E_G	4881397
Methyl acetate	ND		100	50	01/27/09 19:42	E_G	4881397
Methyl methacrylate	ND		250	50	01/27/09 19:42	E_G	4881397
Methyl tert-butyl ether	ND		50	50	01/27/09 19:42	E_G	4881397
Methylcyclohexane	ND		250	50	01/27/09 19:42	E_G	4881397
Methylene chloride	ND		50	50	01/27/09 19:42	E_G	4881397
Naphthalene	ND		250	50	01/27/09 19:42	E_G	4881397
n-Butanol	ND		12000	50	01/27/09 19:42	E_G	4881397
n-Butylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:0901500-05A

Collected: 01/16/2009 15:15

SPL Sample ID: 09010976-05

Site: Tucson, AZ

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
n-Propylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
p-Diethylbenzene	ND		250	50	01/27/09 19:42	E_G	4881397
sec-Butylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Styrene	ND		50	50	01/27/09 19:42	E_G	4881397
t-Butyl alcohol	ND		12000	50	01/27/09 19:42	E_G	4881397
tert-Amyl methyl ether	ND		100	50	01/27/09 19:42	E_G	4881397
tert-Butyl ethyl ether	ND		100	50	01/27/09 19:42	E_G	4881397
tert-Butylbenzene	ND		50	50	01/27/09 19:42	E_G	4881397
Tetrachloroethene	ND		50	50	01/27/09 19:42	E_G	4881397
Tetrahydrofuran	ND		250	50	01/27/09 19:42	E_G	4881397
Toluene	ND		50	50	01/27/09 19:42	E_G	4881397
trans-1,4-Dichloro-2-Butene	ND		1200	50	01/27/09 19:42	E_G	4881397
Trichloroethene	ND		50	50	01/27/09 19:42	E_G	4881397
Trichlorofluoromethane	ND		100	50	01/27/09 19:42	E_G	4881397
Vinyl acetate	ND		250	50	01/27/09 19:42	E_G	4881397
Vinyl chloride	ND		100	50	01/27/09 19:42	E_G	4881397
cis-1,2-Dichloroethene	ND		50	50	01/27/09 19:42	E_G	4881397
cis-1,3-Dichloropropene	ND		50	50	01/27/09 19:42	E_G	4881397
m,p-Xylene	ND		50	50	01/27/09 19:42	E_G	4881397
o-Xylene	ND		50	50	01/27/09 19:42	E_G	4881397
trans-1,2-Dichloroethene	ND		50	50	01/27/09 19:42	E_G	4881397
trans-1,3-Dichloropropene	ND		50	50	01/27/09 19:42	E_G	4881397
Xylenes, Total	ND		50	50	01/27/09 19:42	E_G	4881397
1,2-Dichloroethene (total)	ND		50	50	01/27/09 19:42	E_G	4881397
1,3-Dichloropropene, Total	ND		50	50	01/27/09 19:42	E_G	4881397
Surr: Toluene-d8	101		% 70-140	50	01/27/09 19:42	E_G	4881397
Surr: 1,2-Dichloroethane-d4	104		% 64-130	50	01/27/09 19:42	E_G	4881397
Surr: 4-Bromofluorobenzene	98.8		% 62-130	50	01/27/09 19:42	E_G	4881397

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	01/16/2009 0:00	KP	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B/V - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010976
Lab Batch ID: R263658

Method Blank

Samples in Analytical Batch:

RunID: L_090127B-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Lab Sample ID Client Sample ID
09010976-01A 0901500-01A
09010976-02A 0901500-02A
09010976-03A 0901500-03A
09010976-04A 0901500-04A
09010976-05A 0901500-05A

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (ND) and reporting limits.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010976
Lab Batch ID: R263658

Method Blank

RunID: L_0901278-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (mostly ND) and reporting limits.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010976
Lab Batch ID: R263658

Method Blank

RunID: L_090127B-4881387 Units: ug/kg
Analysis Date: 01/27/2009 12:28 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Trichlorofluoromethane, Vinyl acetate, Vinyl chloride, cis-1,2-Dichloroethene, etc.

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: L_090127B-4881388 Units: ug/kg
Analysis Date: 01/27/2009 13:23 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: Method SW5035

Table with 11 columns: Analyte, LCS Spike Added, LCS Result, LCS Percent Recovery, LCSD Spike Added, LCSD Result, LCSD Percent Recovery, RPD, RPD Limit, Lower Limit, Upper Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, etc.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers: ND/U - Not Detected at the Reporting Limit
MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank
D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
NTNC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Turner Laboratories, Inc.

0901500

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09010976
Lab Batch ID: R263658

Sample Spiked: 09010950-01
RunID: L_090127B-4881391 Units: ug/kg
Analysis Date: 01/27/2009 15:39 Analyst: E_G
Preparation Date: 01/16/2009 0:00 Prep By: KP Method SW5035

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, Toluene, Trichloroethene, and various surrogates.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77064
 (713) 660-0901

Sample Receipt Checklist

Workorder:	09010976	Received By:	RE
Date and Time Received:	1/24/2009 9:30:00 AM	Carrier name:	FedEx
Temperature:	4°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on shipping container/cooler? Yes No Not Present
3. Custody seals intact on sample bottles? Yes No Not Present
4. Chain of custody present? Yes No
5. Chain of custody signed when relinquished and received? Yes No
6. Chain of custody agrees with sample labels? Yes No
7. Samples in proper container/bottle? Yes No
8. Sample containers intact? Yes No
9. Sufficient sample volume for indicated test? Yes No
10. All samples received within holding time? Yes No
11. Container/Temp Blank temperature in compliance? Yes No
12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

09010976

CHAIN-OF-CUSTODY RECORD

Turner Laboratories, Inc.

2445 North Coyote Drive
Suite #104
Tucson, AZ 85745
(520) 882-5880

Subcontractor:

Southern Petroleum Laboratories, Inc.
8880 Interchange Drive

TEL: (713) 660-0901
FAX: (713) 660-8975

Houston, TX 77054

Acct #:

23-Jan-09

Sample ID	Matrix	Collection Date	Bottle Type	sw8260B	Requested Tests
0901500-01A	Soil	1/16/09 9:10:00 AM	BRASSLEEVE	1	
0901500-02A	Soil	1/16/09 10:26:00 AM	BRASSLEEVE	1	
0901500-03A	Soil	1/16/09 10:37:00 AM	BRASSLEEVE	1	
0901500-04A	Soil	1/16/09 11:34:00 AM	BRASSLEEVE	1	
0901500-05A	Soil	1/16/09 1:15:00 PM	BRASSLEEVE	1	

Comments: Please analyze for 8260. Please note all samples are soil extracts. Prep Batch Report included.

Relinquished by: *Sam Weyer*

Date/Time

1/23/09 15:00

Received by:

Received by:

Arbe St

Date/Time

1/24/09 09:00

AW



Turner Laboratories W.O. #: 0901500

Delivered by: Client

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on sample bottles? Yes No Not Present
3. Chain of custody present? Yes No
4. COC agrees with sample labels? Yes No
5. Samples in proper container/bottle? Yes No
6. Sample container intact? Yes No
7. Sufficient sample volume for requested tests? Yes No
8. Samples received within holding times? Yes No
9. VOA vials received with no headspace? Yes No No Vials
10. Bacti bottles received with appropriate headspace? Yes Above 100ml
 Not Applicable Below 100ml

Additional Comments:

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 0901500 DATE 1/16/2009 PAGE 1 OF 1

PROJECT INFORMATION				CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX				
SAMPLE I.D.	DATE	TIME	LAB I.D.	NUMBER OF CONTAINERS	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS:	INVOICE INFORMATION:	SAMPLE RECEIPT:
PT-R01-C	1/16/09	0910		2	<input checked="" type="checkbox"/> Standard (approx. 10 days)* Next Day ___ 2 Day ___ 5 Day* Fax Preliminary Results Requested Report Date * Working Days	<input checked="" type="checkbox"/> I. Routine Report <input type="checkbox"/> II. Report (includes DUP, MS, MSD, as required, may be charged as samples) <input type="checkbox"/> III. Date Validation Report (Includes All Raw Data) Add 10% to invoice	Account ___ Y ___ N P.O.# Bill to: <u>CITY OF TUCSON</u> <u>ENV. SERVICES</u> <u>100 N. STONE,</u> <u>2ND FLY TUCSON</u> <u>AZ 85701</u> <u>CHAD LAPORA</u>	Total Containers <u>5</u> ^{pm} <u>10</u> Temperature <u>46</u> <input type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice
PT-T1N-13		1026						
PT-T1S-13		1037						
PT-P2-3,S		1134						
PT-P3-3		1315						
PROJECT NAME: <u>BENNINGTON TRIANGLE # 10206058.25</u>				CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX				
CONTACT NAME: <u>PAT HARTSHORNE</u>				<input type="checkbox"/> Volatile Organics 625/8270 <input type="checkbox"/> Base Neutrals <input type="checkbox"/> Acids <input type="checkbox"/> THMS <input type="checkbox"/> 624/524/8260 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
COMPANY NAME: <u>SCS ENGINEERS</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
ADDRESS: <u>2410 W. RUTHERAUFF RD, STE 110</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
TUCSON AZ 85705 PHONE: <u>5206961617</u> FAX: <u>5206961618</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
SAMPLER'S SIGNATURE: <u>[Signature]</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
1. RELINQUISHED BY: <u>[Signature]</u> Signature: <u>TRICIA M. HARTSHORNE</u> Printed Name: <u>SCS ENGINEERS</u> Date/Time: <u>1/16/2009 2:00</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				
3. RELINQUISHED BY: <u>[Signature]</u> Signature: <u>Chad Lapora</u> Printed Name: <u>TURNER LABORATORIES, INC.</u> Firm: <u>TURNER LABORATORIES, INC.</u> Date/Time: <u>1/16/09 1400</u>				<input type="checkbox"/> HAA5 <input type="checkbox"/> Pesticides 8081 <input type="checkbox"/> PCBs <input type="checkbox"/> 8082 <input type="checkbox"/> Total Petroleum Hydrocarbons IR(8015A2) <input type="checkbox"/> Oil and Grease 1664A <input type="checkbox"/> 1664A <input type="checkbox"/> Cray. 1664A <input type="checkbox"/> VOA <input type="checkbox"/> Semi-VOA <input type="checkbox"/> Pestic./Herb. <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Priority Pollutants <input type="checkbox"/> Cyanide <input type="checkbox"/> Amen <input type="checkbox"/> WAD <input type="checkbox"/> SECONDARY <input type="checkbox"/> Collform <input type="checkbox"/> Collet <input type="checkbox"/> PH <input type="checkbox"/> MPN <input type="checkbox"/> COD <input type="checkbox"/> TSS <input type="checkbox"/> BOD				