EMERGENCY RESPONSE REPORT

FOR
KENNEDALE MYSTERIOUS RELEASE
812 EAST KENNEDALE PARKWAY
KENNEDALE, TARRANT COUNTY, TEXAS

Prepared for

U.S. Environmental Protection Agency Region 6
Linda Carter, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. TO-0001-09-11-01
WESTON W.O. No. 20406.012.001.0490.01
NRC No. 922254
CERCLIS No. N/A
FPN N/A
EPA OSC John Martin
START-3 PTL Samuel Cheek

Submitted by

Weston Solutions, Inc.
Robert Beck, VP, P.E., Program Manager
70 NE Loop 410, Suite 600
San Antonio, Texas 78216
(210) 308-4300

06 December 2009

883865

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PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions for the Kennedale Mysterious Release incident. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files. On 01 November 2009, the Texas Commission on Environmental Quality (TCEQ) notified the EPA Region 6 Prevention and Response Branch (EPA-PRB) of the release of an unknown chemical on the private property located at 812 East Kennedale Parkway in Kennedale, Tarrant County, Texas. The Superfund Technical Assessment and Response Team (START-3) was activated by the EPA Duty Officer, On-Scene Coordinator (OSC) Karen McCormick to respond to the incident and to initiate all relevant response activities. The City of Kennedale Fire Department, TCEQ Environmental Investigator Paul Gorman, EPA OSC John Martin, the Railroad Commission of Texas, and START-3 members Samuel Cheek and Melinda Luetke arrived on-site on 01 November 2009. The EPA START-3 tasks included responding to the incident; conducting site investigation; conducting air monitoring; identifying the unknown liquid; and providing written and photographic documentation of response activities. After viewing the air monitoring results and preliminary HAPSITE Gas Chromatograph/Mass Spectrometer (GC/MS) analyses results for the unknown liquid, EPA OSC Martin released the START-3 members from the site on 01 November 2009.

This final report was prepared by Weston Solutions, Inc. under Contract No. EP-W-06-042 for EPA Region 6. The responding EPA OSC was John Martin, and the START-3 Project Team Leader was Samuel Cheek.

☐ The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

☒ The EPA Task Monitor has provided final approval of this report. Therefore, Weston Solutions, Inc. has submitted this report with the Task Monitor's approval.

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1. PROJECT IDENTIFICATION

Date: 06 December 2009

To: John Martin, On-scene Coordinator (OSC)/Task Monitor (TM)
U.S. Environmental Protection Agency (EPA)
Region 6, Prevention and Response Branch

Through: Linda Carter, Project Officer (PO)
EPA Region 6, Program Management Branch

Through: Robert Beck, VP, P.E., Weston Solutions, Inc. (WESTON®)
EPA Region 6, Superfund Technical Assessment and Response Team (START-3) Program Manager

From: Samuel Cheek, WESTON
EPA Region 6, START-3 Project Team Leader

Subject: Emergency Response: Kennedale Mysterious Release
812 East Kennedale Parkway, Kennedale, Tarrant County, Texas
Contract No. EP-W-06-042
TDD No. TO-0001-09-11-01
W.O. No. 20406.012.001.0490.01
NRC No. 922254
FPN N/A
CERCLIS ID N/A
Latitude 32.6373160º North
Longitude 97.2122540º West

Geographic coordinates of the release site was determined by START-3 members using the hand-held Global Positioning System (GPS) based on the World Geodetic System – 1984 (WGS-84) with accuracy estimated at less than 50-feet circular probable error.

2. INTRODUCTION

At 0900 hours on 01 November 2009, the Texas Commission on Environmental Quality (TCEQ) requested assistance from the EPA Region 6 Prevention and Response Branch (EPA-PRB) to identify an unknown liquid and to perform air monitoring for the potential presence of vapors associated with the liquid release at 812 East Kennedale Parkway in Kennedale, Tarrant County, Texas. Specifically, TCEQ requested assistance conducting air monitoring because preliminary analyses indicated that the liquid contained chloroacetaldehyde, a potentially explosive volatile

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organic compound (VOC). At 1000 hours, EPA Duty Officer Karen McCormick activated EPA OSC John Martin and EPA START-3 to the site to perform a response investigation and to initiate all relevant response activities. TCEQ remained the lead agency throughout the incident response.

3. BACKGROUND

The site is located at 812 East Kennedale Parkway in Kennedale, Tarrant County, Texas. The site is bordered to the north by residential properties, to the east by East Kennedale Parkway followed by several industrial facilities, to the south by a vacant lot, and to the west by Southern Pacific Railroad tracks followed by an electrical transformer grid. A large metal shop building (Shop 2) is located along the western site boundary. A smaller metal shop building (Shop 1) is located near the center of the site. The main office building is located at the southeastern corner of the site. The property has been primarily leased to industrial tenants; however, at the time of incident, the site was not leased. The most recent former tenant is Shamrock Equipment Rental, a company that leases heavy equipment, primarily large forklifts.

The site is fully enclosed by fencing and secured with two locks, one allowing property access to the property owner, the potentially responsible party (PRP), and one allowing property access to Shamrock Equipment Rental. During the response, Doyle Riley, the PRP representative, indicated that the liquid was not on-site at the closing of the facility on the night of 30 October 2009.

After receiving several complaints by residents of an odor, the City of Kennedale Fire Department responded at 2100 hours on 30 October 2009. The City of Kennedale Fire Department located the source of the odor on the western edge of the property at 812 East Kennedale Parkway. City of Kennedale Fire Department Representative J.C. Travis indicated that the lock was secured at the time of the initial response; therefore, the fire department cut the lock to obtain access to the site. Preliminary analyses of the unknown liquid conducted by the City of Kennedale Fire Department, with a HAZMAT ID Infrared Spectrophotometer, indicated that the main constituents of the liquid were dimethylamine and chloroacetaldehyde. Following the preliminary identification, the City of Kennedale Fire Department contacted the TCEQ for

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assistance with the release. No evacuations or road closures were initiated as a result of the chemical release.

4. ACTIONS TAKEN

On 01 November 2009, EPA OSC Martin and START-3 team members Samuel Cheek and Melinda Luetke mobilized to the site at the request of the TCEQ to investigate the unknown chemical release and to conduct air monitoring. Upon arrival to the site, START-3 members observed that an unknown amount of liquid was pooled on the ground near the western fence line of the site. An area of approximately 50 feet by 50 feet of dead vegetation was noted surrounding the unknown liquid. A slight odor was noted immediately adjacent to the release. Tire tracks of unknown origin were noted immediately east of the release. City of Kennedale Fire Department Representative Travis indicated that the quantity of the unknown liquid had decreased by approximately 50% since 31 October 2009.

At approximately 1237 hours, EPA OSC Martin requested that the Inficon HAPSITE Gas Chromatograph/Mass Spectrometer (GC/MS) and the Schoenstedt magnetometer be deployed to the site by START-3.

At approximately 1301 hours, City of Kennedale Fire Department Representative Travis provided START-3 team members with a plastic biohazard bag containing a soil sample collected by the fire department at the time the release was discovered. The bag also contained additional material including a plastic cup and gloves. The bag was knotted at the top to contain the vapors.

At approximately 1305 hours, START-3 began conducting air monitoring at the background location upwind of the release location and at the release location. Drager Multiwarns equipped with chemical-specific sensors were used to monitor for carbon monoxide (CO), carbon dioxide (CO_2), hydrogen sulfide (H_2S), oxygen (O_2), explosive atmospheres, amines, ammonia (NH_3), hydrogen cyanide (HCN), chlorine (Cl_2), acid gases, hydrides, odor, nitrogen dioxide (NO_2), and sulfur dioxide (SO_2). Additionally, a Toxic Vapor Analyzer (TVA)-1000 Flame Ionization Detector (FID)/Photo Ionization Detector (PID) was used to monitor for VOCs. The oxygen reading was noted to be 20.9% at the background location. The oxygen reading fluctuated

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between 20.9% and 21.1% at the release location. The remaining aforementioned contaminates were non-detect at both the background location and at the release location. Due to the results of the air monitoring at the release location, TCEQ Environmental Investigator (EI) Paul Gorman indicated that air monitoring in the neighborhoods adjacent to the site would not be necessary.

At approximately 1314 hours, START-3 analyzed the pH of the unknown liquid using pH paper. Based on the analyses, it was noted that the pH of the liquid was near neutral in the range of 7 to 8 standard units.

At approximately 1530 hours, START-3 began conducting HAPSITE analyses of the upper layer of affected soil, the middle layer of affected soil, the unknown liquid, and the contents of the biohazard bag provided by the City of Kennedale Fire Department containing material collected at the time of discovery of the release. Vapors from the representative samples were analyzed with a 15-minute loop method using the probe attachment for sample collection. Results of the HAPSITE analyses of the liquid and soil samples primarily indicated the presence of trichloromethane, or chloroform.

At approximately 1600 hours, START-3 utilized a Schoenstedt magnetometer to analyze the possible presence of buried tanks or drums at the release location. No large subsurface abnormalities were detected.

After viewing the air monitoring results and preliminary HAPSITE GC/MS analyses results, EPA OSC Martin released the START-3 members from the site on 01 November 2009 at 1800 hours.

On 10 November 2009, TCEQ EI Gorman contacted START-3. TCEQ EI Gorman indicated that laboratory analysis results for six grab samples collected by the PRP from the impacted soil indicated the presence of chloroform. The soil samples were analyzed for VOCs using EPA method 8260B. PRP sample analytical results are included as Attachment E. No evidence of dimethylamine or chloroacetaldehyde was indicated in the analytical results. TCEQ EI Gorman stated that the TCEQ will provide oversight during the removal of soils in the impacted area and that cleanup will be considered complete when laboratory analyses confirm that the presence of chloroform is non-detectable.

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This final report was prepared as part of the requirements of the Technical Direction Document (TDD) and serves as documentation of work completed to date.

5. LIST OF ATTACHMENTS

A. Site Location Map

B. Site Area Map

C. Site Sketch

D. Digital Photographs

E. PRP Sample Analytical Results

F. Copy of Final POLREP

G. Copy of START-3 Logbook

H. Copy of NRC Report No. 922254

I. Copy of TDD No. TO-0001-09-11-01

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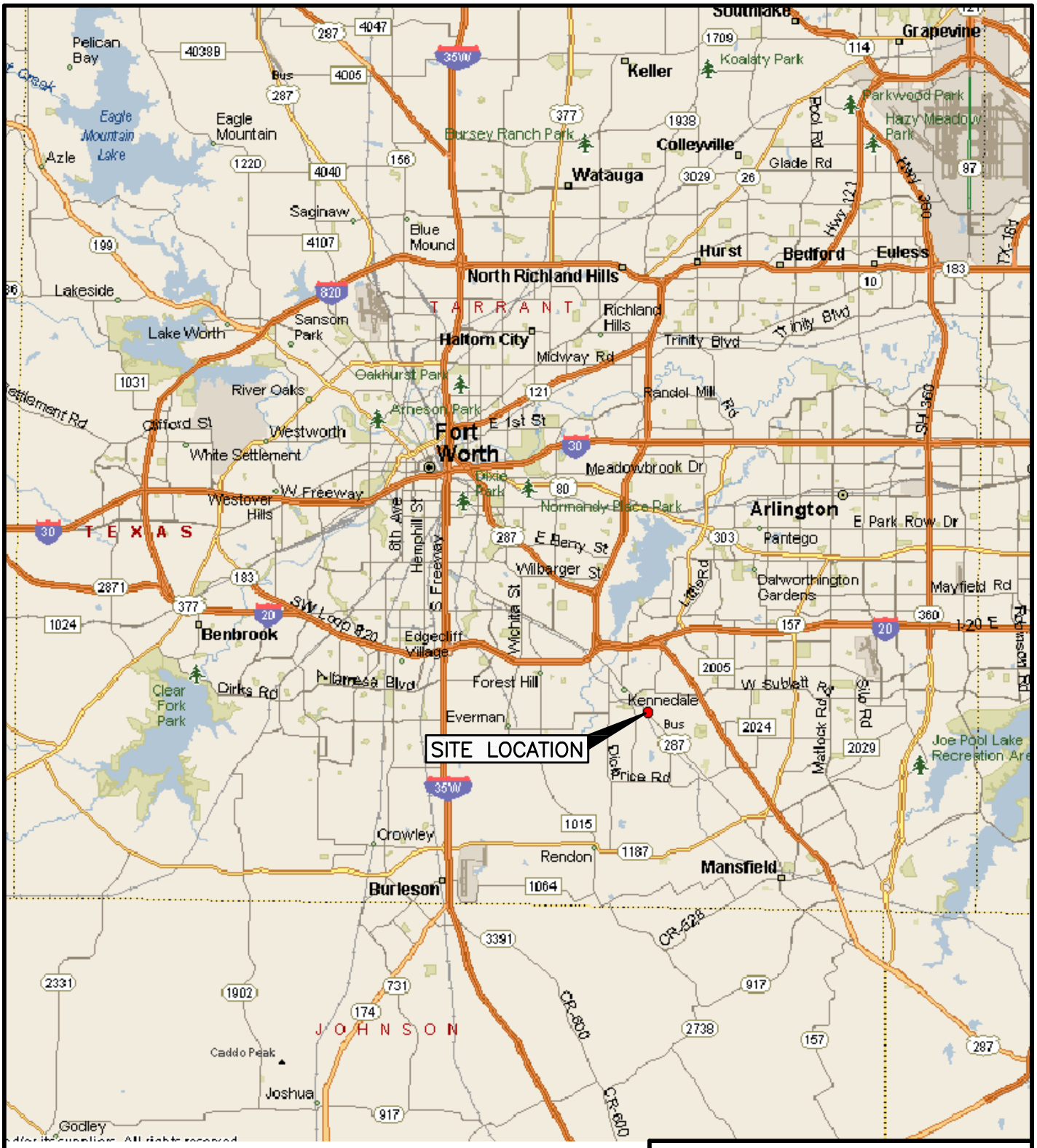
Attachment A

Site Location Map



TEXAS

N

US EPA REGION 6
START-3

ATTACHMENT A
SITE LOCATION MAP
KENNEDALE MYSTERY RELEASE

KENNEDALE, TARRANT COUNTY, TEXAS

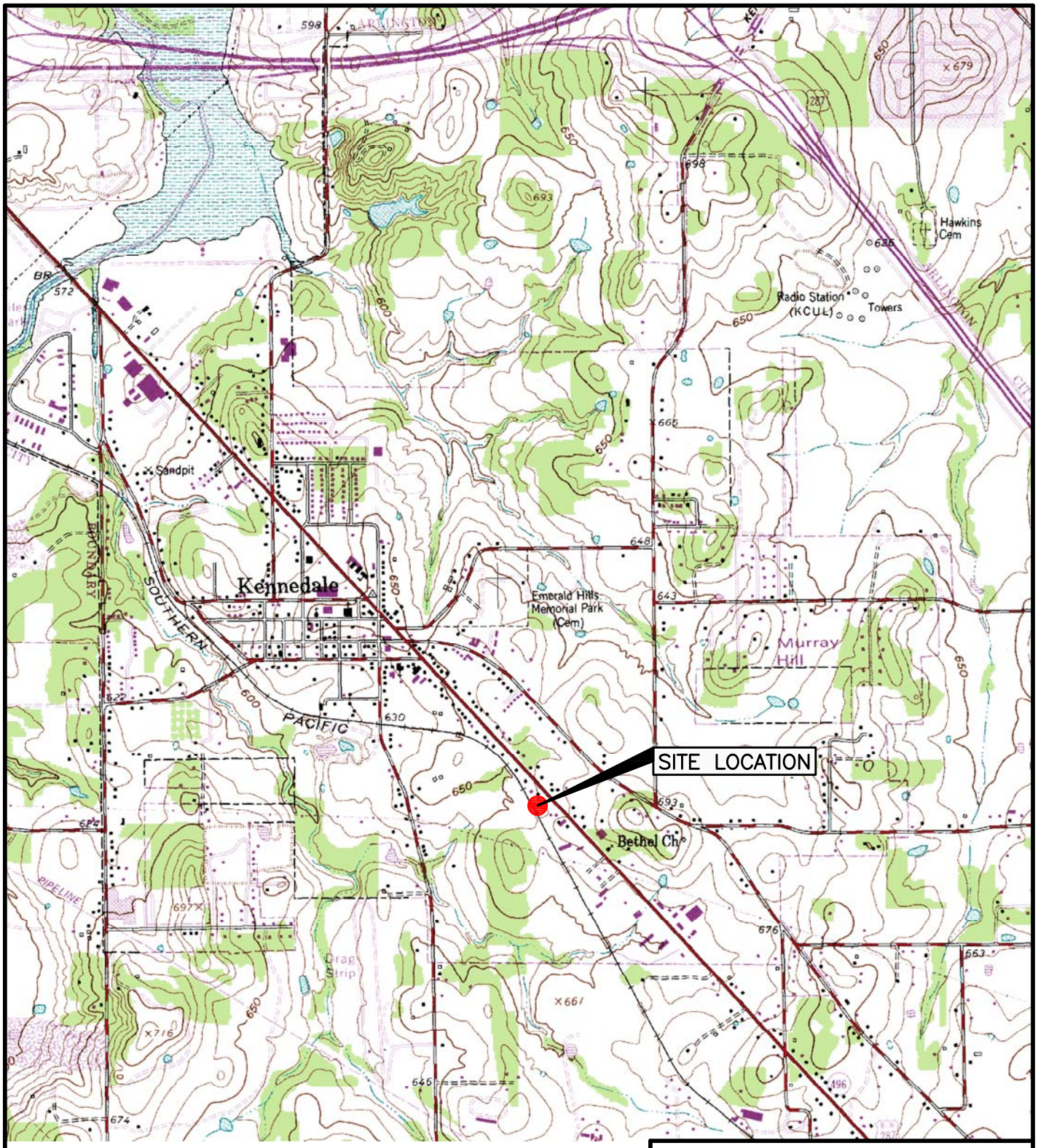
DATE:	W.O. #	SCALE:
NOV 09	20406.012.001.0490.01	NOT TO SCALE

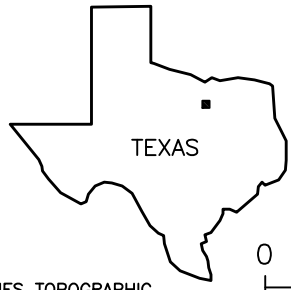
SOURCE: MICROSOFT STREETS 2008.
SSID: A6T6
TDD No.: TO-0001-09-11-01

H:\START III EPA\0490_Kennedale Mystery Release\1123090848.dwg Dec 02, 2009 - 8:50am

Attachment B

Site Area Map





N

0 1000 2000

SCALE IN FEET

SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC,
KENNEDALE, TEXAS (1981).
SSID: A6T6
TDD No.: TO-0001-09-11-01

US EPA REGION 6
START-3

ATTACHMENT B

SITE AREA MAP

KENNEDALE MYSTERY RELEASE

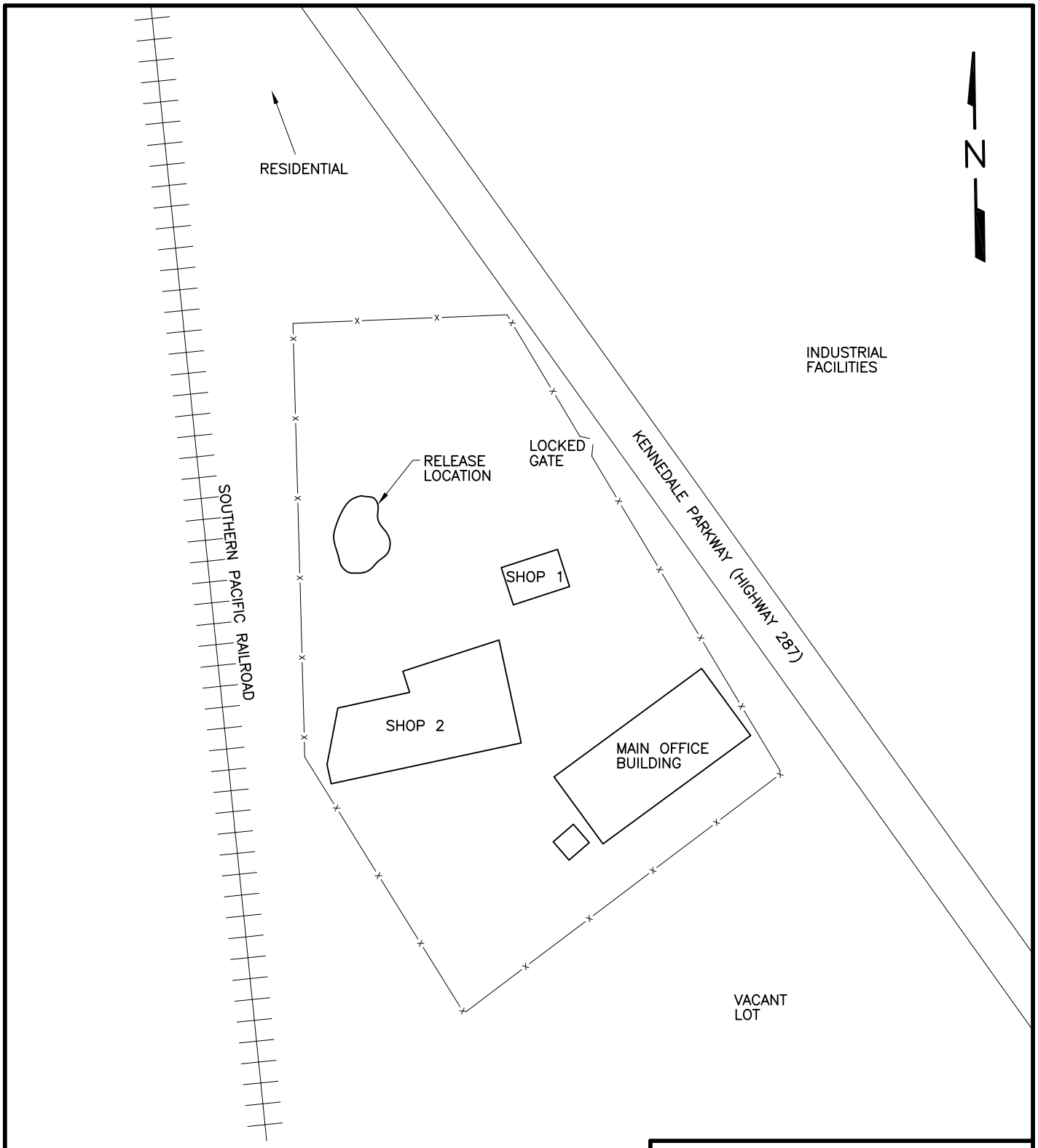
KENNEDALE, TARRANT COUNTY, TEXAS

DATE:	W.O. #	SCALE:
NOV 09	20406.012.001.0490.01	AS SHOWN

H:\START III EPA\0490_Kennedale Mystery Release\1123090843.dwg Dec 02, 2009 – 8:51am

Attachment C

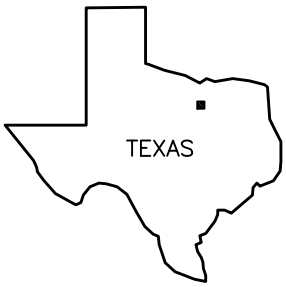
Site Sketch



LEGEND:

FENCE LINE

RAILROAD TRACKS



US EPA REGION 6
START-3

ATTACHMENT C

SITE SKETCH

KENNEDALE MYSTERIOUS RELEASE

KENNEDALE, TARRANT COUNTY, TEXAS

DATE:	W.O. #	SCALE:
NOV 09	20406.012.001.0490.01	NOT TO SCALE

SSID: A6T6
TDD No.: TO-0001-09-11-01

H:\START III EPA\0490_Kennedale Mystery Release\1123091127.dwg Dec 03, 2009 - 10:49am

Attachment D

Digital Photographs

A copy of the digital photographs will be provided with the final report CD.

CLEANING GUYS
(817)GO-1-GUYS
CLEANIN
ENVIRONMENT

KENNEDALE FIRE DEPT.
MACHINING
WELDING
SANDBLASTING
QUINT
59

SERPA
SQUAD
59

KENNEDALE
FIRE/RESCUE
SPECIAL OPERATIONS
SQUAD
59

Attachment E

PRP Sample Analytical Results

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Environmental Laboratories
Bethany Tech Center ◆ Suite 190
400 W. Bethany Rd. ◆ Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Page: Page 1 of 26
Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

ERMI Environmental Laboratories certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
0911116-01	East 1	Solid	11/05/09 11:00	11/05/09 13:00
0911116-02	East 2	Solid	11/05/09 11:00	11/05/09 13:00
0911116-03	West 1	Solid	11/05/09 11:00	11/05/09 13:00
0911116-04	West 2	Solid	11/05/09 11:00	11/05/09 13:00
0911116-05	Back 1	Solid	11/05/09 11:00	11/05/09 13:00
0911116-06	Back 2	Solid	11/05/09 11:00	11/05/09 13:00

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Kendall K. Brown
President

Environmental Laboratories
Bethany Tech Center • Suite 190
400 W. Bethany Rd. • Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-01
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										
Benzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Bromobenzene	**ND**	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Bromochloromethane	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Bromodichloromethane	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Bromoform (Tribromomethane)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Bromomethane (Methyl Bromide)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
n-Butylbenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
sec-Butylbenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
tert-Butylbenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Carbon Tetrachloride	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Chlorobenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Chloroethane (Ethyl Chloride)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Chloroform	**1960**	199	2	ug/kg	99.60	EPA 8260B	9K06015	11/09/09 1654	ZT	R-01
Chloromethane (Methyl Chloride)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
2-Chlorotoluene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
4-Chlorotoluene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Dibromochloromethane (Chlorodibromo...)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2-Dichlorobenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,3-Dichlorobenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,4-Dichlorobenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Dichlorodifluoromethane	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1-Dichloroethane	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
cis-1,2-Dichloroethene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01

Environmental Laboratories
Bethany Tech Center • Suite 190
400 W. Bethany Rd. • Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-01
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
trans-1,2-Dichloroethene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2-Dichloropropane (Propylene Dichloride)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,3-Dichloropropane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
2,2-Dichloropropane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1-Dichloropropene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Ethyl Benzene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Hexachlorobutadiene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Isopropylbenzene (Cumene)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
p-Isopropyltoluene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Methyl tert butyl ether (MTBE)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Methylene Bromide (Dibromomethane)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Methylene Chloride (Dichloromethane)	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Naphthalene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
n-Propylbenzene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Styrene	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1,1,2-Tetrachloroethane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1,2,2-Tetrachloroethane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Tetrachloroethene (Perchloroethylene)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Toluene	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2,3-Trichlorobenzene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2,4-Trichlorobenzene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1,1-Trichloroethane (Methyl Chloroform)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,1,2-Trichloroethane	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Trichloroethene (Trichloroethylene)	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Trichlorofluoromethane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2,3-Trichloropropane	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
1,2,4-Trimethylbenzene	ND	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-01
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
1,3,5-Trimethylbenzene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
Vinyl Chloride	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
m-,p-Xylene	**ND**	3.98	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01
o-Xylene	**ND**	1.99	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	Q-01

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*48.2 ug/kg*	*49.8 ug/kg*	*97 %*	*83-114*
Toluene-d8 (EPA 8260B)	*50.0 ug/kg*	*49.8 ug/kg*	*100 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*54.7 ug/kg*	*49.8 ug/kg*	*110 %*	*76-129*
4-Bromofluorobenzene (EPA 8260B)	*54.3 ug/kg*	*49.8 ug/kg*	*109 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*61.9 ug/kg*	*49.8 ug/kg*	*124 %*	*75-137*
1,2-Dichloroethane-d4 (EPA 8260B)	*58.7 ug/kg*	*49.8 ug/kg*	*118 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	exc
dimethyl amine	**ND**	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0521	ZT	exc

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-02
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										
Benzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Bromobenzene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Bromochloromethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Bromodichloromethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Bromoform (Tribromomethane)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Bromomethane (Methyl Bromide)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
n-Butylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
sec-Butylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
tert-Butylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Carbon Tetrachloride	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Chlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Chloroethane (Ethyl Chloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Chloroform	94.1	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Chloromethane (Methyl Chloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
2-Chlorotoluene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
4-Chlorotoluene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Dibromochloromethane (Chlorodibromo...)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2-Dichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,3-Dichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,4-Dichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Dichlorodifluoromethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1-Dichloroethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
cis-1,2-Dichloroethene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	

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State Certifications
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Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-02
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
trans-1,2-Dichloroethene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2-Dichloropropane (Propylene Dichloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,3-Dichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
2,2-Dichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1-Dichloropropene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Ethyl Benzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Hexachlorobutadiene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Isopropylbenzene (Cumene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
p-Isopropyltoluene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Methyl tert butyl ether (MTBE)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Methylene Bromide (Dibromomethane)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Methylene Chloride (Dichloromethane)	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Naphthalene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
n-Propylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Styrene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1,1,2-Tetrachloroethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1,2,2-Tetrachloroethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Tetrachloroethene (Perchloroethylene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Toluene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2,3-Trichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2,4-Trichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,1,2-Trichloroethane	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Trichloroethene (Trichloroethylene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Trichlorofluoromethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2,3-Trichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
1,2,4-Trimethylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-02
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: East 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
1,3,5-Trimethylbenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
Vinyl Chloride	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
m-,p-Xylene	**ND**	4.02	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	
o-Xylene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*49.7 ug/kg*	*50.2 ug/kg*	*99 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*51.6 ug/kg*	*50.2 ug/kg*	*103 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*53.7 ug/kg*	*50.2 ug/kg*	*107 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	exc
dimethyl amine	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0554	ZT	exc

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

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State Certifications
Arkansas: 88-0647
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Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-03
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										
Benzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Bromobenzene	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Bromochloromethane	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Bromodichloromethane	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Bromoform (Tribromomethane)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Bromomethane (Methyl Bromide)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
n-Butylbenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
sec-Butylbenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
tert-Butylbenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Carbon Tetrachloride	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Chlorobenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Chloroethane (Ethyl Chloride)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Chloroform	**127**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-12
Chloromethane (Methyl Chloride)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
2-Chlorotoluene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
4-Chlorotoluene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Dibromochloromethane (Chlorodibromo...)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2-Dichlorobenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,3-Dichlorobenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,4-Dichlorobenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Dichlorodifluoromethane	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1-Dichloroethane	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
cis-1,2-Dichloroethene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01

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State Certifications
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Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-03
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
trans-1,2-Dichloroethene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2-Dichloropropane (Propylene Dichloride)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,3-Dichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
2,2-Dichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1-Dichloropropene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Ethyl Benzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Hexachlorobutadiene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Isopropylbenzene (Cumene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
p-Isopropyltoluene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Methyl tert butyl ether (MTBE)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Methylene Bromide (Dibromomethane)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Methylene Chloride (Dichloromethane)	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Naphthalene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
n-Propylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Styrene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1,1,2-Tetrachloroethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1,2,2-Tetrachloroethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Tetrachloroethene (Perchloroethylene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Toluene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2,3-Trichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2,4-Trichlorobenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1,1-Trichloroethane (Methyl Chloroform)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,1,2-Trichloroethane	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Trichloroethene (Trichloroethylene)	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Trichlorofluoromethane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2,3-Trichloropropane	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
1,2,4-Trimethylbenzene	ND	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727

Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-03
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
1,3,5-Trimethylbenzene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
Vinyl Chloride	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
m-,p-Xylene	**ND**	4.02	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01
o-Xylene	**ND**	2.01	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	Q-01

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*49.2 ug/kg*	*50.2 ug/kg*	*98 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*56.8 ug/kg*	*50.2 ug/kg*	*113 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*60.9 ug/kg*	*50.2 ug/kg*	*121 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	exc
dimethyl amine	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0626	ZT	exc

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-04
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										
Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Bromobenzene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Bromochloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Bromodichloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Bromoform (Tribromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Bromomethane (Methyl Bromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
n-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
sec-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
tert-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Carbon Tetrachloride	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Chlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Chloroethane (Ethyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Chloroform	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/09/09 1442	ZT	Q-01
Chloromethane (Methyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
2-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
4-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Dibromochloromethane (Chlorodibromo...)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,3-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,4-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Dichlorodifluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1-Dichloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
cis-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-04
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
trans-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2-Dichloropropane (Propylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,3-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
2,2-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1-Dichloropropene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Ethyl Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Hexachlorobutadiene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Isopropylbenzene (Cumene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
p-Isopropyltoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Methyl tert butyl ether (MTBE)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Methylene Bromide (Dibromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Methylene Chloride (Dichloromethane)	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Naphthalene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
n-Propylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Styrene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1,1,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1,2,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Tetrachloroethene (Perchloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Toluene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2,3-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2,4-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,1,2-Trichloroethane	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Trichloroethene (Trichloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Trichlorofluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2,3-Trichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
1,2,4-Trimethylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-04
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: West 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
1,3,5-Trimethylbenzene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
Vinyl Chloride	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
m-,p-Xylene	**ND**	4.01	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	
o-Xylene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*48.9 ug/kg*	*50.1 ug/kg*	*98 %*	*83-114*
Toluene-d8 (EPA 8260B)	*49.8 ug/kg*	*50.1 ug/kg*	*99 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*52.8 ug/kg*	*50.1 ug/kg*	*105 %*	*76-129*
4-Bromofluorobenzene (EPA 8260B)	*53.6 ug/kg*	*50.1 ug/kg*	*107 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*52.7 ug/kg*	*50.1 ug/kg*	*105 %*	*75-137*
1,2-Dichloroethane-d4 (EPA 8260B)	*65.5 ug/kg*	*50.1 ug/kg*	*131 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	exc
dimethyl amine	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0658	ZT	exc

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Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-05
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										
Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Bromobenzene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Bromochloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Bromodichloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Bromoform (Tribromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Bromomethane (Methyl Bromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
n-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
sec-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
tert-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Carbon Tetrachloride	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Chlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Chloroethane (Ethyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Chloroform	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Chloromethane (Methyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
2-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
4-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Dibromochloromethane (Chlorodibromo...)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,3-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,4-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Dichlorodifluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1-Dichloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
cis-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	

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Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-05
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
trans-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2-Dichloropropane (Propylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,3-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
2,2-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1-Dichloropropene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Ethyl Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Hexachlorobutadiene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Isopropylbenzene (Cumene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
p-Isopropyltoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Methyl tert butyl ether (MTBE)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Methylene Bromide (Dibromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Methylene Chloride (Dichloromethane)	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Naphthalene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
n-Propylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Styrene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1,1,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1,2,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Tetrachloroethene (Perchloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Toluene	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2,3-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2,4-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,1,2-Trichloroethane	ND	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Trichloroethene (Trichloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Trichlorofluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2,3-Trichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
1,2,4-Trimethylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	

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State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-05
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 1
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										
1,3,5-Trimethylbenzene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
Vinyl Chloride	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
m-,p-Xylene	**ND**	4.01	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	
o-Xylene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*50.1 ug/kg*	*50.1 ug/kg*	*100 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*53.0 ug/kg*	*50.1 ug/kg*	*106 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*52.4 ug/kg*	*50.1 ug/kg*	*105 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	exc
dimethyl amine	**ND**	3.01	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0730	ZT	exc

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

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Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-06
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics										Q-01
Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Bromobenzene	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Bromochloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Bromodichloromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Bromoform (Tribromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Bromomethane (Methyl Bromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
n-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
sec-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
tert-Butylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Carbon Tetrachloride	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Chlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Chloroethane (Ethyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Chloroform	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Chloromethane (Methyl Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
2-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
4-Chlorotoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Dibromochloromethane (Chlorodibromo...)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,3-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,4-Dichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Dichlorodifluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1-Dichloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
cis-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	

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Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-06
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										Q-01
trans-1,2-Dichloroethene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2-Dichloropropane (Propylene Dichloride)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,3-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
2,2-Dichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1-Dichloropropene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Ethyl Benzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Hexachlorobutadiene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Isopropylbenzene (Cumene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
p-Isopropyltoluene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Methyl tert butyl ether (MTBE)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Methylene Bromide (Dibromomethane)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Methylene Chloride (Dichloromethane)	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Naphthalene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
n-Propylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Styrene	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1,1,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1,2,2-Tetrachloroethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Tetrachloroethene (Perchloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Toluene	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2,3-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2,4-Trichlorobenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,1,2-Trichloroethane	ND	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Trichloroethene (Trichloroethylene)	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Trichlorofluoromethane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2,3-Trichloropropane	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
1,2,4-Trimethylbenzene	ND	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	

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State Certifications
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Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Laboratory ID #: 0911116-06
Sample Type: Grab
Matrix: Solid
Sample Collected By: P. Charles
Customer
Sample Description: Back 2
Sample Date/Time: 11/05/09 1100

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, (continued)										**Q-01**
1,3,5-Trimethylbenzene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
Vinyl Chloride	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
m-,p-Xylene	**ND**	3.99	4	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	
o-Xylene	**ND**	2.00	2	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*49.8 ug/kg*	*49.9 ug/kg*	*100 %*	*83-114*
4-Bromofluorobenzene (EPA 8260B)	*54.1 ug/kg*	*49.9 ug/kg*	*108 %*	*76-129*
1,2-Dichloroethane-d4 (EPA 8260B)	*60.4 ug/kg*	*49.9 ug/kg*	*121 %*	*75-137*

Volatile Organics - Library Search										
Chloroacetaldehyde	**ND**	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	exc
dimethyl amine	**ND**	2.99	3	ug/kg	1.00	EPA 8260B	9K06015	11/07/09 0802	ZT	exc

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Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil										
Blank (9K06015-BLK1)										
Prepared: 11/06/09 14:01 Analyzed: 11/07/09 02:41										
Benzene	ND	2.00	ug/kg							
Bromobenzene	ND	3.00	ug/kg							
Bromochloromethane	ND	2.00	ug/kg							
Bromodichloromethane	ND	2.00	ug/kg							
Bromoform (Tribromomethane)	ND	2.00	ug/kg							
Bromomethane (Methyl Bromide)	ND	2.00	ug/kg							
n-Butylbenzene	ND	2.00	ug/kg							
sec-Butylbenzene	ND	2.00	ug/kg							
tert-Butylbenzene	ND	2.00	ug/kg							
Carbon Tetrachloride	ND	2.00	ug/kg							
Chlorobenzene	ND	2.00	ug/kg							
Chloroethane (Ethyl Chloride)	ND	2.00	ug/kg							
Chloroform	ND	2.00	ug/kg							
Chloromethane (Methyl Chloride)	ND	2.00	ug/kg							
2-Chlorotoluene	ND	2.00	ug/kg							
4-Chlorotoluene	ND	2.00	ug/kg							
Dibromochloromethane (Chlorodibromo...)	ND	2.00	ug/kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.00	ug/kg							
1,2-Dibromoethane (Ethylene Dibromide)	ND	2.00	ug/kg							
1,2-Dichlorobenzene	ND	2.00	ug/kg							
1,3-Dichlorobenzene	ND	2.00	ug/kg							
1,4-Dichlorobenzene	ND	2.00	ug/kg							
Dichlorodifluoromethane	ND	2.00	ug/kg							
1,1-Dichloroethane	ND	2.00	ug/kg							
1,2-Dichloroethane (Ethylene Dichloride)	ND	2.00	ug/kg							
1,1-Dichloroethene (Vinylidene Chloride)	ND	2.00	ug/kg							
cis-1,2-Dichloroethene	ND	2.00	ug/kg							
trans-1,2-Dichloroethene	ND	2.00	ug/kg							
1,2-Dichloropropane (Propylene Dichloride)	ND	2.00	ug/kg							
1,3-Dichloropropane	ND	2.00	ug/kg							

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Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil (continued)										
Blank (9K06015-BLK1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 02:41										
2,2-Dichloropropane	**ND**	2.00	ug/kg							
1,1-Dichloropropene	**ND**	2.00	ug/kg							
Ethyl Benzene	**ND**	2.00	ug/kg							
Hexachlorobutadiene	**ND**	2.00	ug/kg							
Isopropylbenzene (Cumene)	**ND**	2.00	ug/kg							
p-Isopropyltoluene	**ND**	2.00	ug/kg							
Methyl tert butyl ether (MTBE)	**ND**	2.00	ug/kg							
Methylene Bromide (Dibromomethane)	**ND**	2.00	ug/kg							
Methylene Chloride (Dichloromethane)	**ND**	3.00	ug/kg							
Naphthalene	**ND**	2.00	ug/kg							
n-Propylbenzene	**ND**	2.00	ug/kg							
Styrene	**ND**	3.00	ug/kg							
1,1,1,2-Tetrachloroethane	**ND**	2.00	ug/kg							
1,1,2,2-Tetrachloroethane	**ND**	2.00	ug/kg							
Tetrachloroethene (Perchloroethylene)	**ND**	2.00	ug/kg							
Toluene	**ND**	3.00	ug/kg							
1,2,3-Trichlorobenzene	**ND**	2.00	ug/kg							
1,2,4-Trichlorobenzene	**ND**	2.00	ug/kg							
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	2.00	ug/kg							
1,1,2-Trichloroethane	**ND**	3.00	ug/kg							
Trichloroethene (Trichloroethylene)	**ND**	2.00	ug/kg							
Trichlorofluoromethane	**ND**	2.00	ug/kg							
1,2,3-Trichloropropane	**ND**	2.00	ug/kg							
1,2,4-Trimethylbenzene	**ND**	2.00	ug/kg							
1,3,5-Trimethylbenzene	**ND**	2.00	ug/kg							
Vinyl Chloride	**ND**	2.00	ug/kg							
m-,p-Xylene	**ND**	4.00	ug/kg							
o-Xylene	**ND**	2.00	ug/kg							
Surrogate: Toluene-d8	**50.0**		ug/kg	50.0		100	83-114			
Surrogate: 4-Bromofluorobenzene	**52.2**		ug/kg	50.0		104	76-129			

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Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil (continued)										
Blank (9K06015-BLK1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 02:41										
Surrogate: 1,2-Dichloroethane-d4	**53.2**		ug/kg	50.0		106	75-137			
Laboratory Control Sample (9K06015-BS1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 00:00										
Benzene	**46.9**	2.00	ug/kg	50.0		94	78-120			
Carbon Tetrachloride	**42.5**	2.00	ug/kg	50.0		85	72-123			
Chlorobenzene	**42.8**	2.00	ug/kg	50.0		86	73-117			
Chloroform	**46.9**	2.00	ug/kg	50.0		94	80-117			
Dibromochloromethane (Chlorodibromo...)	**40.8**	2.00	ug/kg	50.0		82	72-123			
1,4-Dichlorobenzene	**42.2**	2.00	ug/kg	50.0		84	69-117			
1,2-Dichloroethane (Ethylene Dichloride)	**48.4**	2.00	ug/kg	50.0		97	76-127			
1,1-Dichloroethene (Vinylidene Chloride)	**49.8**	2.00	ug/kg	50.0		100	71-125			
trans-1,2-Dichloroethene	**47.4**	2.00	ug/kg	50.0		95	78-120			
1,2-Dichloropropane (Propylene Dichloride)	**47.7**	2.00	ug/kg	50.0		95	78-121			
Ethyl Benzene	**44.4**	2.00	ug/kg	50.0		89	71-123			
Tetrachloroethene (Perchloroethylene)	**44.0**	2.00	ug/kg	50.0		88	51-141			
Toluene	**43.7**	3.00	ug/kg	50.0		87	74-117			
1,1,1-Trichloroethane (Methyl Chloroform)	**45.0**	2.00	ug/kg	50.0		90	75-125			
Trichloroethene (Trichloroethylene)	**46.6**	2.00	ug/kg	50.0		93	76-122			
Vinyl Chloride	**49.0**	2.00	ug/kg	50.0		98	65-131			
Surrogate: Toluene-d8	**50.0**		ug/kg	50.0		100	83-114			
Surrogate: 4-Bromofluorobenzene	**49.9**		ug/kg	50.0		100	76-129			
Surrogate: 1,2-Dichloroethane-d4	**54.3**		ug/kg	50.0		109	75-137			
Laboratory Control Sample Duplicate (9K06015-BSD1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 00:32										
Benzene	**48.0**	2.00	ug/kg	50.0		96	78-120	2	12	
Carbon Tetrachloride	**44.7**	2.00	ug/kg	50.0		89	72-123	5	13	
Chlorobenzene	**44.9**	2.00	ug/kg	50.0		90	73-117	5	12	
Chloroform	**48.5**	2.00	ug/kg	50.0		97	80-117	3	11	
Dibromochloromethane (Chlorodibromo...)	**43.8**	2.00	ug/kg	50.0		88	72-123	7	11	
1,4-Dichlorobenzene	**44.0**	2.00	ug/kg	50.0		88	69-117	4	12	

Environmental Laboratories
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400 W. Bethany Rd. ◆ Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727

Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil (continued)										
Laboratory Control Sample Duplicate (9K06015-BSD1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 00:32										
1,2-Dichloroethane (Ethylene Dichloride)	**49.8**	2.00	ug/kg	50.0		100	76-127	3	11	
1,1-Dichloroethene (Vinylidene Chloride)	**51.5**	2.00	ug/kg	50.0		103	71-125	3	17	
trans-1,2-Dichloroethene	**48.5**	2.00	ug/kg	50.0		97	78-120	2	13	
1,2-Dichloropropane (Propylene Dichloride)	**48.8**	2.00	ug/kg	50.0		98	78-121	2	13	
Ethyl Benzene	**47.1**	2.00	ug/kg	50.0		94	71-123	6	13	
Tetrachloroethene (Perchloroethylene)	**45.9**	2.00	ug/kg	50.0		92	51-141	4	11	
Toluene	**44.8**	3.00	ug/kg	50.0		90	74-117	3	13	
1,1,1-Trichloroethane (Methyl Chloroform)	**47.0**	2.00	ug/kg	50.0		94	75-125	4	12	
Trichloroethene (Trichloroethylene)	**48.2**	2.00	ug/kg	50.0		96	76-122	3	12	
Vinyl Chloride	**51.3**	2.00	ug/kg	50.0		103	65-131	4	15	
Surrogate: Toluene-d8	**49.8**		ug/kg	50.0		100	83-114			
Surrogate: 4-Bromofluorobenzene	**49.4**		ug/kg	50.0		99	76-129			
Surrogate: 1,2-Dichloroethane-d4	**54.4**		ug/kg	50.0		109	75-137			
Matrix Spike (9K06015-MS1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 01:04					**Source: 0911116-01**					
Benzene	**39.7**	2.00	ug/kg	50.0	ND	79	56-129			
Carbon Tetrachloride	**39.1**	2.00	ug/kg	50.0	ND	78	48-133			
Chlorobenzene	**32.5**	2.00	ug/kg	50.0	ND	65	45-131			
Chloroform	**1170**	2.00	ug/kg	50.0	1240	-127	44-143			Q-02, Q-15
Dibromochloromethane (Chlorodibromo...)	**34.7**	2.00	ug/kg	50.0	ND	69	55-127			
1,4-Dichlorobenzene	**26.0**	2.00	ug/kg	50.0	ND	52	21-145			
1,2-Dichloroethane (Ethylene Dichloride)	**42.4**	2.00	ug/kg	50.0	ND	85	63-126			
1,1-Dichloroethene (Vinylidene Chloride)	**41.4**	2.00	ug/kg	50.0	ND	83	42-137			
trans-1,2-Dichloroethene	**39.8**	2.00	ug/kg	50.0	ND	80	59-129			
1,2-Dichloropropane (Propylene Dichloride)	**41.2**	2.00	ug/kg	50.0	ND	82	63-126			
Ethyl Benzene	**32.7**	2.00	ug/kg	50.0	ND	65	37-141			
Tetrachloroethene (Perchloroethylene)	**26.6**	2.00	ug/kg	50.0	ND	53	35-150			
Toluene	**34.4**	3.00	ug/kg	50.0	ND	69	35-143			
1,1,1-Trichloroethane (Methyl Chloroform)	**37.8**	2.00	ug/kg	50.0	ND	76	53-133			

Environmental Laboratories
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Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-09-TX

Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil (continued)										
Matrix Spike (9K06015-MS1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 01:04					**Source: 0911116-01**					
Trichloroethene (Trichloroethylene)	**36.2**	2.00	ug/kg	50.0	ND	72	56-131			
Vinyl Chloride	**41.7**	2.00	ug/kg	50.0	ND	83	36-148			
Surrogate: Toluene-d8	**50.0**		ug/kg	50.0		100	83-114			
Surrogate: 4-Bromofluorobenzene	**50.6**		ug/kg	50.0		101	76-129			
Surrogate: 1,2-Dichloroethane-d4	**52.0**		ug/kg	50.0		104	75-137			
Matrix Spike Duplicate (9K06015-MSD1) Prepared: 11/06/09 14:01 Analyzed: 11/07/09 01:36					**Source: 0911116-01**					
Benzene	**28.1**	2.00	ug/kg	50.0	ND	56	56-129	34	35	
Carbon Tetrachloride	**24.6**	2.00	ug/kg	50.0	ND	49	48-133	45	43	Q-04
Chlorobenzene	**23.8**	2.00	ug/kg	50.0	ND	48	45-131	31	40	
Chloroform	**1030**	2.00	ug/kg	50.0	1240	-414	44-143	-106	35	Q-02, Q-15
Dibromochloromethane (Chlorodibromo...)	**29.7**	2.00	ug/kg	50.0	ND	59	55-127	15	24	
1,4-Dichlorobenzene	**19.7**	2.00	ug/kg	50.0	ND	39	21-145	28	34	
1,2-Dichloroethane (Ethylene Dichloride)	**37.5**	2.00	ug/kg	50.0	ND	75	63-126	12	21	
1,1-Dichloroethene (Vinylidene Chloride)	**25.4**	2.00	ug/kg	50.0	ND	51	42-137	48	50	
trans-1,2-Dichloroethene	**26.3**	2.00	ug/kg	50.0	ND	53	59-129	41	38	Q-02, Q-04, Q-15
1,2-Dichloropropane (Propylene Dichloride)	**31.9**	2.00	ug/kg	50.0	ND	64	63-126	25	26	
Ethyl Benzene	**22.3**	2.00	ug/kg	50.0	ND	45	37-141	38	35	Q-04
Tetrachloroethene (Perchloroethylene)	**18.0**	2.00	ug/kg	50.0	ND	36	35-150	39	38	Q-04
Toluene	**24.1**	3.00	ug/kg	50.0	ND	48	35-143	35	37	
1,1,1-Trichloroethane (Methyl Chloroform)	**24.8**	2.00	ug/kg	50.0	ND	50	53-133	41	40	Q-02, Q-04, Q-15
Trichloroethene (Trichloroethylene)	**25.1**	2.00	ug/kg	50.0	ND	50	56-131	36	36	Q-02, Q-15
Vinyl Chloride	**24.7**	2.00	ug/kg	50.0	ND	49	36-148	51	46	Q-04
Surrogate: Toluene-d8	**49.2**		ug/kg	50.0		98	83-114			
Surrogate: 4-Bromofluorobenzene	**52.2**		ug/kg	50.0		104	76-129			
Surrogate: 1,2-Dichloroethane-d4	**57.7**		ug/kg	50.0		115	75-137			

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Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Volatile Organics - Library Search - Quality Control

Analyte(s)	Result	*SRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9K06015 - Purge-and-Trap and Extraction-VOCs in Soil										
Blank (9K06015-BLK1)										
Prepared: 11/06/09 14:01 Analyzed: 11/07/09 02:41										
Chloroacetaldehyde	**ND**	3.00	ug/kg							
dimethyl amine	**ND**	3.00	ug/kg							

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Report of Sample Analysis

Riley Machine
812 E. Kennedale
Kennedale, TX 76060
ATTN: Doyle Riley

Project: Riley Machine
Project #: [none]
Print Date/Time: 11/09/09 17:54

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

Q-01	The recovery of the internal standard(s) was outside the expected range in this sample due to matrix interferences. No target compounds were identified in the sample, therefore, this has no effect on the results presented.
Q-02	The recovery of an analyte(s) in the MSs was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte(s) in the LCSs was within the required limits.
Q-04	The RPD of the target analyte(s) in the MS/MSD is outside of established limits. The RPD of this same analyte(s) in the LCS/LCSD is within acceptable limits. Therefore, the data were reported and are acceptable.
Q-12	The recovery of the internal standard used to quantify this result is lower than expected due to matrix interference. This causes a high bias to the result presented.
Q-15	The recovery was lower than expected. This may indicate a low bias to results presented.
R-01	The higher reporting limit(s) is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Anlst	Analyst Initials
SRL	Sample Reporting Limit
MRL	Method Reporting Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

Attachment F

Copy of Final POLREP

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Kennedale Mysterious Release - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VI

Subject: **POLREP #1**
FINAL
Kennedale Mysterious Release

Kennedale, TX
Latitude: 32.6373160 Longitude: -97.2122540

To:
From: John Martin, OSC
Date: 11/4/2009
Reporting Period:

1. Introduction

1.1 Background

Site Number:		**Contract Number:**	
D.O. Number:		**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	Emergency
Response Lead:		**Incident Category:**	Removal Assessment
NPL Status:		**Operable Unit:**	
Mobilization Date:	11/1/2009	**Start Date:**	
Demob Date:		**Completion Date:**	
CERCLIS ID:		**RCRIS ID:**	
ERNS No.:	992254	**State Notification:**	
FPN#:		**Reimbursable Account #:**	

SITE DESCRIPTION

On 1 November 2009, the United States Environmental Protection Agency (EPA) Response and Prevention Branch was requested by the Texas Commission on Environmental Quality (TCEQ) to assist in the identification of an unknown liquid. The unknown liquid was located at the western edge of the PRP's property at 812 East Kennedale Blvd., Kennedale, Tarrant County, Texas. The PRP indicated the liquid was not on-site upon closing of the facility on the night of 30 October 2009. After receiving several resident's complaints of a foul oder, the Kennedale Fire Department responded to the event at 2100 hours on 30 October 2009. Preliminary analysis by the City of Kennedale Fire Department, with a HAZMAT ID, indicated that the main constituents of the liquid were dimethylamine and

chloroacetaldehyde.

ACTIONS TAKEN

Following notification by the TCEQ, EPA Duty Officer Karen McCormick mobilized EPA OSC John Martin and the EPA representatives (EPA START contractor) to the site. EPA representatives were tasked with site investigation, air monitoring and identification of the unknown liquid. At 1225 hours on 1 November 2009, EPA representatives arrived on site and met with TCEQ Emergency Responder Paul Gorman and City of Kennedale Fire Department Contact J.C. Travis. An unknown amount of liquid was observed to be pooled on the ground near the western fence line of the PRP property.

Air monitoring was conducted for volatile organic compounds, amines, ammonia, carbon monoxide, hydrogen cyanide, chlorine, acid gases, hydrides, hydrogen sulfide, odor, oxygen, and an explosive atmosphere. Air monitoring results did not exceed background levels. The pH of the unknown liquid was determined to be in the range of approximately 7-8 standard units. A HAPSITE Gas Chromatograph/Mass Spectrometer (GC/MS) was used to analyze the vapors from representative samples of the unknown liquid and impacted soils. Preliminary results of the HAPSITE analyses primarily indicated the presence of chlorinated methanes. A magnetometer was utilized to determine the possible presence of buried tanks or drums. No large subsurface normalities were detected. At 1800 hours EPA OSC John Martin released EPA representatives from the site.

FUTURE PLANS

The TCEQ will oversee environmental cleanup to ensure that state guidelines are achieved. The property owner has committed to hire an environmental contractor whom will take additional samples to be analyzed at a laboratory to assist in determining the appropriate course of remedial actions to be taken. EPA will coordinate with TCEQ and the City of Kennedale Fire Department if further actions are required.

KEY ISSUES

Due to the results of the air monitoring and Hapsite data coupled with onsite observations, it was determined that the spill location did not currently posed an immediate threat to the public.

2. Current Activities

- **2.1 Operations Section**
- **2.2 Planning Section**
- **2.3 Logistics Section**
- **2.4 Finance Section**
- **2.5 Safety Officer**
- **2.6 Liaison Officer**
- **2.7 Information Officer**

3. Participating Entities

- **3.1 Unified Command**
- **3.2 Cooperating and Assisting Agencies**

4. Personnel On Site

5. Definition of Terms

6. Additional sources of information

- **6.1 Internet location of additional information/reports**
- **6.2 Reporting Schedule**

7. Situational Reference Materials

Attachment G

Copy of START-3 Logbook

Kennedale Mysterious
Release

"Rite in the Rain"®
ALL-WEATHER
JOURNAL
No. 391

INCH

"Rite in the Rain"®

ALL-WEATHER WRITING PAPER

If Found, Please Return To:

Name Melinda Luethe, Weston Solutions Inc.

Address 14160 Dallas Pkwy., Ste. 850 Dallas, TX 75254

Phone 469-374-7712 or 972-207-5344

Project

key to initials

Melinda Luethe : MLL

Sam Cheek : SCC

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE

1000 START-3 Sam Cheek receives ER page from OSC/EPA Duty officer Karen McCormick - activated to site located at 812 East Kennedale Pkwy, Kennedale, TX to respond to release of unknown chemical. Kennedale FD identified ~~a~~ chemical as chloroacetaldehyde and dimethylamine

1100 START-3 S Cheek and Melinda Luethe arrive at DTX office, gather equipment for Tier 2 Response ——— mll

1130 START-3 Cheek and Luethe depart for site ——— mll

1145 Health and Safety Meeting held in route. Topics Covered: Chemicals of ~~Co~~ concern: chloro acetaldehyde and dimethylamine, Physical hazards: slips/trips/falls, biological hazards: insects, animals. Hospital: Methodist Mansfield Med Ctr, 2700 E Broad St., Mansfield, TX; Route to Hospital: SE on E. Kennedale Pkwy, Lf on W. Debbie Ln, Lf on FM 157 N, Rt onto US-287, Exit E. Broad St. Lf onto E. Broad Street, hospital is on Rt., PPE: Level D, upgrade depending on air monitoring, weather: 60.8°F, Humidity 61%, winds at 1.4 mph from the south. Site objectives: conduct air monitoring, site investigation, investigate identity of unknown liquid, document response. M. Luethe Melinda Luethe S. Cheek (FSO/RTL) Melinda Luethe

1225 START-3 S Cheek and M. Luethe arrive onsite. GPS Coordinates recorded as 32.637316 N, -97.212254 W. Meet with EPA OSC John Martin, TCEQ Env. Invest. Paul Gorman, City of Kennedale FD Rep. J.C. Travis ——— mll

1230 EPA OSC Martin escorts START-3 Cheek and Luethe to area of concern. ——— mll

- States suspected sources: dumping, seeping from ground (i.e. burried tank/source)
- Rust colored dirt / dead vegetation around AOC ——— mll
- Pooled liquid - unknown amt. ——— mll
- Kennedale FD Travis indicates that amt. of liq decreased in 1/2 since yesterday ——— mll
- Slight property damage to fence - unknown cause ——— lock mll
- J.C. Travis says he had to cut ~~fence~~ to obtain access to the site - site was secured
- Tire tracks near the liquid - unknown cause ——— mll

1237 EPA OSC Martin requests the HAPSITE and magnetrometer be deployed to the site by START-3 ——— mll

1240 TCEQ Gorman states that state funded cleanup will be initiated if a remediation ——— Melinda Luethe

contractor is not hired by the property owner (PRP). ~~PRP~~ ~~mtt~~ PRP has indicated financial concerns about clean-up

1241 TCEQ continues to take the lead

1243 Kennedale FD Travis indicates that Kennedale FD is unsure of the pH of the unknown liquid ——— mtt

1300 Kennedale FD Travis indicates that the liq. was discovered Sat. morning at 0100 hours. ——— mtt

1301 J.C. Travis provides START-3 with a plastic biohazard bag ~~mtt~~ which is tied/knotted at the top containing a sample of soil collected by the Kennedale FD at the time of discovery

1305 START-3 Cheek and Luethe begin to conduct air monitoring using Drager PAC-3 and Drager Multiwarns. Background readings taken at the property fence near the gate, upwind of the release. Readings taken at the release. O_2 increases slightly from 20.9% to 21.1% and fluctuates between 20.9% and 21.1% at the release. No other readings detected at the background loc. or the AOC

Melinda Luethe

See pg. 43 for Air Monitoring Results

1314 START-3 Cheek analyzes pH of liquid using pH paper. pH appears to be near-neutral (in the range of 7-8 s.u.) ——— mtt

1317 EPA OSC Martin uses a stick to stick into the ground near the release. Stick goes easily into ground and stops after several inches. OSC states that stick appears to hit gravel/stone. No additional liquid seeps out of the ground

1332 START-3 S. Cheek speaks on the phone with SPRP Doyle Riley. Has a key to the gate, but does not know how it is tracked

1354 Kennedale FD Travis indicates he received a call that 2 abandoned drums were located + are believed to contain the same product. 1 drum found in a creek north of the site ——— mtt

1405 Kennedale FD arrives on-site with the 2 drums located off-site. No labelling on the drums, 1 drum

Melinda Luethe

arrived overpacked by the FD
1417 Property contact Riley indicated that apressure washer is kept at the facility, but no ~~to~~ ~~mtt~~ chemicals are onsite. Prior to ~10-11 years ago, the previous property owners had magnesium/ additional chemical contamination which was cleaned prior to purchase by current property owners. Shamrock (former tennant), was cleaning forklifts and equipment near the site. The facility fence chains and locks were "daisy-locked" ~~w~~ ~~mtt~~ (lock to lock) together with Shamrock having a key to one lock and the property owners having a key to the 2nd lock ——— mtt
1432 Approximately 50-75% of the unknown liquid has evaporated since START-3 arrived onsite
1514 START-3 Corwin Sims arrives onsite with HAPSITE and ——— mtt magnetrometer ——— mtt
——— Melinda Lueth ———

1530 START-3 M. Luethe begins conducting HASITE analyses. Method = 15 minute loop GC/MS, Used probe for loopfill. See pg. 47 for sample locations, Sample numbers, times, ——— mtt
1600 START-3 S. Cheek begins using the magnetrometer to analyze the possible presence of buried tanks or drums at the AOC. No abnormalities detected ——— mtt
1800 EPA OSC releases START-3 from the site ——— mtt
2030 START-3 arrives at DTX office. START-3 updates Response Manager and writes First and Final FolRep
2130 START-3 S. Cheek calls the City of Kennedale Fire Department to confirm when the F.D. initially responded to the incident. The F.D indicated that they initially responded to the incident at 2100 hours on 30 October 2009 ——— mtt
END OF DAY ——— mtt
——— Melinda Lueth ———

* LATE ENTRIES * For 11/01/09 *

0900 TCEQ requested EPA assistance with response activities at the site due to the potentially explosive nature of the chemical of concern, chloroacetaldehyde —— MJH

1315 TCEQ Gorman indicates that neighborhood monitoring for air contaminants will not be necessary, after reviewing the results of the air monitoring data collected at the area of concern —— MJH

~~* End of LATE ENTRIES FOR 11/01/09~~ MJH

1145 Additional information from Health and Safety Meeting: special personnel Information: M. Luetke has contacts, S. Cheek wears glasses —— MJH

* END OF LATE ENTRIES FOR 11/10/09 *

MJH —— MJH

Melinda J. Luetke

MJH —— MJH

1400 TCEQ Gorman contacted START-3 Cheek. TCEQ Gorman stated that the laboratory results for samples collected from the contaminated soil indicated the presence of chloroform. No additional VOCs were detected. TCEQ Gorman indicated that the laboratory results would be forwarded to EPA and START-3 —— MJH

1408 TCEQ Gorman forwarded the laboratory results to EPA Martin and START-3 Cheek and Luetke —— MJH

* END OF DAY *

MJH —— MJH

Melinda J. Luetke

MJH —— MJH

TO-0001-09-11-01
204006.012.001.0490.01

11/10/2009

See pg. 39 for Photo Log
pg. 41 for Equipment List
pg. 43 for Air Monitoring Data
pg. 45 for Site Sketch
pg. 47 for HAPSITE analyses Results

* END OF LOGBOOK *

TO-0001-09-11-01

WO No. 204016.012.001.0490.01 11/01/09

Photo Log

No.	Taken By	Witness	Date	Time	Direct.	Description
PB010007	S. Cheek	M. Luethe	11/01/09	1338	SW	AOC
PB010008				1338	W	AOC
PB010009				1504	W	Tire tracks near AOC
PB010010				1506	E	Abandoned drums found off-site
PB010011				1532	Down	pH strips at AOC - near neutral (pH = 7-8)
PB010012				1754	N	Residential Property
PB010013				1754	NW	North property
PB010014				1755	SW	Shop Building
PB010015				1755	SW	SW Fenceline
PB010016				1758	S	Kennedale FD Vehicle
PB010017				1758	N/A	Clean-up Contractor's vehicle
PB010018				1759	E	Kennedale FD Equip. + vehicles

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TO-0001-09-11-01
WO No.: 20406.012.001.0490.01

11/01/09

Equipment List	Barcode
Draeger Multiwarn	904744
Draeger Multiwarn	904743
Draeger Multiwarn	01445
Draeger Multiwarn	A69782
Draeger Multiwarn	904747
Garmin Oregon 550t GPS	RFW23723
Olympus Stylus Tough	RFW23731
Draeger Pac III	EPA 01128
Foxboro JVA-1000	EPA724515
Inficon Hapsite	904727
Schoenstadt Magnetrometer	696788

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TO-0001-09-11-01

WO No.: 204016.012.001.0490.01

11/01/09

Air Monitoring Data Chart

	Background Reading	Reading at AOC
Amine	0	0
OV	0	0
OVA	0	0
SO_2	0	0
NO_2	0	0
CO_2	0	0
Odor	0	0
HCN	0	0
NH_3	0	0
Hydride	0	0
Cl_2	0	0
O_2	20.9%	20.9 - 21.1%
H_2S	0	0
CO	0	0

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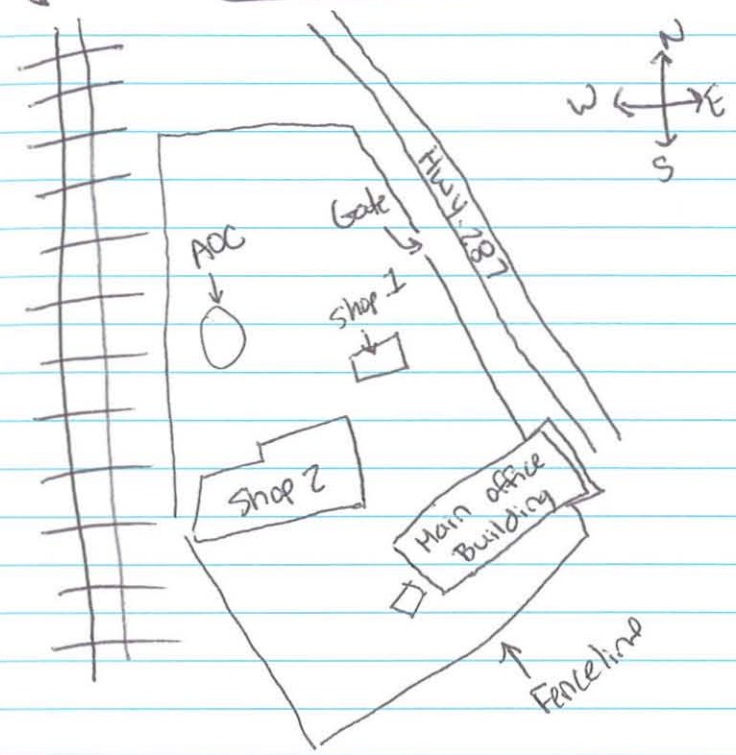
TO-0001-09-11-01
WO No.: 204006.012.001.0490.01 11/01/9

Site Sketch



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TO-0001-09-11-01
20406.012.001.0490.01

11/01/09

HAPSITE Analyses

Sample No.	Time	ID
1	1619	top Soil
2	1640	biohazard bag
3	1700	mid Soil
4	1721	liquid

Sample No	Parameters identified during pre-lim analysis
1	Trichloromethane
2	Trichloromethane, isopropyl alcohol
~~3~~	cyanogen chloride
3 ~~4~~	Trichloromethane, dichloroacetonitrile
4	Trichloromethane

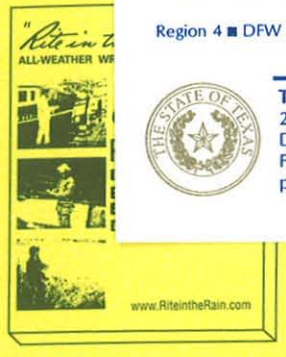
N 52.63764°
W 97.21755°

PAUL GORMAN
Environmental Investigator
Water Program/Emergency Response

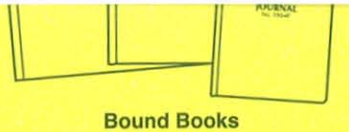
Region 4 ■ DFW Metroplex

Texas Commission on Environmental Quality
2309 Gravel Drive, Fort Worth, TX 76118
Direct 817/588-5831 ■ Office 817/588-5800
Fax 817/588-5701
pgorman@tceq.state.tx.us

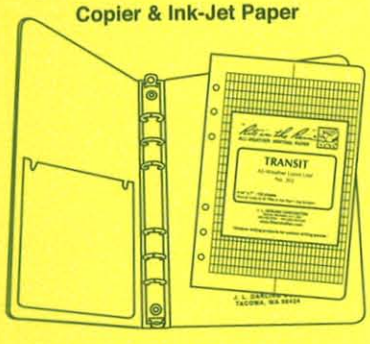
printed on recycled paper



Copier & Ink-Jet Paper



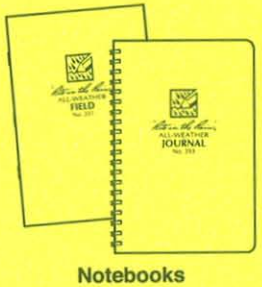
Bound Books



Loose Leaf / Ring Binder

Memo Books

All-Weather Pens



Notebooks

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Attachment H

Copy of NRC Report No. 922254

NATIONAL RESPONSE CENTER 1-800-424-8802
*** For Public Use ***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 922254

INCIDENT DESCRIPTION

*Report taken at 11:07 on 01-NOV-09
Incident Type: FIXED
Incident Cause: UNKNOWN
Affected Area:
The incident was discovered on 01-NOV-09 at 09:00 local time.
Affected Medium: LAND GROUND

SUSPECTED RESPONSIBLE PARTY

XX

Type of Organization: UNKNOWN

INCIDENT LOCATION

821 E KENNEDALE PKWY County: TARRANT
City: KENNEDALE State: TX

VACANT LOT

RELEASED MATERIAL(S)

CHRIS Code: DMA Official Material Name: DIMETHYLAMINE
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT
CHRIS Code: NCC Official Material Name: NO CHRIS CODE
Also Known As: CHLOROACETYLENE
Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER IS REPORTING A VACANT LOT THAT HAS DIMETHYLAMINE AND CHLOROACETYLENE BUBBLING FROM THE GROUND. THE INCIDENT IS CURRENTLY UNDER INVESTIGATION.

INCIDENT DETAILS

Package: N/A
Building ID:
Type of Fixed Object: OTHER
Power Generating Facility: UNKNOWN
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Closure Type	Description of Closure	Length of Closure	Direction of Closure
Air: N			
Road: N			
Waterway: N			
Track: N			

Major Artery:

Passengers Transferred: NO
Environmental Impact: UNKNOWN
Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

INVESTIGATION UNDERWAY
Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: SUNNY, 70ºF Wind speed: 6 MPH Wind direction: S

ADDITIONAL AGENCIES NOTIFIED

Federal: EPA
State/Local: TCEQ
State/Local On Scene: TCEQ
State Agency Number: NONE

NOTIFICATIONS BY NRC

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
01-NOV-09 11:18
U.S. EPA VI (MAIN OFFICE)
01-NOV-09 11:18
JFO-LA (COMMAND CENTER)
01-NOV-09 11:18
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
01-NOV-09 11:18
NOAA RPTS FOR TX (MAIN OFFICE)
01-NOV-09 11:18
TCEQ (MAIN OFFICE)
01-NOV-09 11:18
TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)
01-NOV-09 11:18

ADDITIONAL INFORMATION

NO ADDITIONAL INFORMATION TO REPORT.

***** END INCIDENT REPORT # 922254 *****

Attachment I

Copy of TDD No. TO-0001-09-11-01

EPA

U.S. EPA
Washington, DC 20460

START3
Technical Direction Document

Response Activities- REMOVAL
Funds (0001)
Weston Solutions, Inc.

TDD #: TO-0001-09-11-01
Contract: EP-W-06-042

! = required field

TDD Name:	Kennedale Mysterious Release	! Period:	Base Period
! Purpose:	Work Assignment Initiation	Verbal Date:	11/01/2009
! Priority:	High	! Start Date:	11/01/2009
Overtime:	Yes	! Completion Date:	01/06/2010
! Funding Category:	Removal	Invoice Unit:	
! Project/Site Name:	Kennedale Mysterious Release	WorkArea:	RESPONSE ACTIVITIES
Project Address:	812 E Kennedale Parkway	Activity:	Emergency Response
County:	Tarrant	Work Area Code:	866-372-7745
City, State:	Kennedale, Texas	Activity Code:	
Zip:	76060	EMERGENCY CODE:	☐ KAT ☐ RIT
! SSID:	A6T6	FPN:	
CERCLIS:		Performance Based:	No
Operable Unit:			

Authorized TDD Ceiling:	Cost/Fee	LOE (Hours)
Previous Action(s):	$0.00	0.0
This Action:	$15,000.00	0.0
New Total:	$15,000.00	0.0

Specific Elements More specifically the contractor shall, - Collect facts regarding the discharge or release to include its source and cause, - Identify potentially responsible parties, - Analyze the nature amount and location of discharged or released materials, - Analyze the probable direction and time of travel of discharged or released materials, - Analyze whether the discharge is a worst case discharge in accordance with Sec. 300.324 of the NCP, - Identify the pathways to human and environmental exposure, - Analyze the potential impact on human health welfare and safety and the environment posed by the release of hazardous substances contaminants or pollutants and discharge of oil, - Provide analysis of discharges or releases posing a substantial threat to the public health or welfare of the United States, - Analyze the potential impact on natural resources and property, - Document costs incurred by the contractor for the response actions, - Collect or review data such as site management practices information from generators photographs historical photographic analyses literature searches and personal interviews, - Identify active or historical facility processes or operations that may contribute to the release or threat of release of hazardous substances pollutants contaminants or discharge of oil, - Develop options to abate prevent minimize stabilize mitigate eliminate or remove the threat of a release to public health or welfare or the environment, - Prepare a sampling plan which describes the number type and location of samples and the type of analyses (for example sampling and analysis plans for collection of multi-media environmental samples chemical product or waste oil or other materials), - Observe and document federal state and private actions taken to conduct a response action, - Recommend options for the use of special teams and other assistance described in Section 300.145 of the NCP, - Disseminate EPA-approved information to the public, - Collect analyze and validate data in accordance with EPA standard methods for sample analysis, - Develop site specific Health and Safety Plans (HSPs), - Develop health and safety procedures for response activities such as OSHA levels of protection associated with a site, - Monitor and measure COR-identified chemicals and analyze potential exposure conditions, recommend waste disposal options, - Review completeness of disposal documentation such as manifests waste profile data and other information, - Obtain permits from federal state or local agencies associated with the contractor's response activities, - Provide expert testimony, - Provide site security to prevent unauthorized access of any persons or animals to preserve public safety such as fencing or armed or unarmed security services, - Input contractor's costs using the EPA cost tracking software Removal Cost Management System (RCMS), - Conduct file reviews (for example federal state and local agency records) to obtain background information to analyze releases of hazardous substances pollutants contaminants or oil, - Analyze PRP response documents and actions, - Analyze the accuracy timeliness and completeness of PRP reports, - Document PRP activities and provide negotiation support, - Verify PRP compliance with enforcement orders, - Identify local and elected officials, - Conduct deed and title searches, - Conduct waste profile analyses, - Develop public information summaries for Internet distribution, Provide technical advice findings facts recommendations and options., Maintain response capability to respond to discharges/releases or

threatened discharges/releases as defined in Subparts D and E of the National Contigency Plan., Provide responsders with good working knowledge of the Incident Command System (ICS)., Assist Federal state and local responding agencies with ICS implementation.

Description of Work:

All activities performed in support of this TDD shall be in accordance with the contract and TO PWS.

Primary Response OSC John Martin

Accounting and Appropriation Information

SFO: 22

Line	DCN	IFMS	Budget/ FY	Appropriation Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RVC047	XXX	09	TCD	6A00E	302DC6C	2505	A6T6RV00	C001	$15,000.00

Funding Summary:	Funding
Previous:	$0.00
This Action:	$15,000.00
Total:	$15,000.00

Funding Category

Removal

Section

- Signed by Karen McCormick/R6/USEPA/US on 11/05/2009 08:36:06 AM, according to Cheng Wei Feng

: Karen McCormick **Date:** 11/05/2009

Project Officer Section - Signed by Cora Stanley/R6/USEPA/US on 11/06/2009 12:16:41 AM, according to C

Project Officer: Cora Stanley **Date:** 11/06/2009

Contracting Officer Section - Signed by Cora Stanley/R6/USEPA/US on 11/06/2009 12:16:41 AM, according

Contracting Officer: Cora Stanley **Date:** 11/06/2009

Contractor Section

Contractor Contact: **Date:**