



Mr. and Mrs. Timothy Ruggiero
415 Star Shell Road
Decatur, TX 76234

Wolf Eagle Environmental

January 2010





Mr.and Mrs. Timothy Ruggiero
415 Star Shell Road
Decatur, Texas 76234

Environmental Studies

Fugitive Air Emissions Testing
Impacted Soil Testing

Presented by:

Wolf Eagle Environmental

February 2009

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Environmental Study

Fugitive Air Emissions and Impacted Soil Testing

1.0 Executive Summary

Wolf Eagle Environmental ("Wolf Eagle") was retained by Mr. and Mrs. Timothy Ruggiero ("Client") to perform a soil sample study on their residence in Wise County, Texas. The purpose of the study was to collect soil samples on property owned by Client believed to be impacted by hydrocarbons from natural gas industrial operations. Additional testing was ordered to characterize the presence of fugitive air emission discovered at the time of soil sampling.

2.0 Background Information

Wolf Eagle Environmental was contact by Client due to repeated environmental impact from natural gas drilling operations on pad site located on Client's property. Client purchased approximately 10 acres from a large land holder in 2004 and established their residence on the land parcel. Client is a surface right owner, not a mineral right owner of said property.

Aruba Petroleum began natural gas drilling operations on Client's property in the fall of 2009 directly in front of their residence on approximately 2 acres of Client's 10 acre site. Client stated Aruba gave no advance warning prior to development of a pad site on September 16th, 2009. Application for drilling permit was not submitted to the Railroad Commission of Texas (RRC) until September 21st, 2009. It was approved September 24th and drilling commenced on October 6th, 2009.

Numerous complaints have been filed by Client with Texas Commission on Environmental Quality ("TCEQ") and Railroad Commission of Texas ("RRC") in 2009 and 2010, due to environmental concerns including:

 October 29, 2009 - Violation of Statewide Rule 8; release of drilling fluids and migration to adjacent landowners' properties;

- November 4 -18, 2009 Compliance investigation (TCEQ) investigation of air quality/odor; test confirmed maximum NOx concentrations (1-hour) predicted at 380 ppb with National Ambient Air Quality Standard (NAAQS) for NOx at 53 ppb avg one year.
- December 2, 2009 Violation of Statewide Rule 20 associated crude oil, gas, geothermal resources lost;
- January 11, 2010 Violation of RRC Statewide (SWR) 8(d)(1) produced water affected soil observed near one of frac tanks.
- January 17-21, 2010 Compliance investigation Odor releases

Wolf Eagle was contacted after the produced water spill estimated at 10,000 gallons of fluid (produced water/condensate) impacted pad site and migrated off pad site on to Client's horse pasture and into the adjacent Black Creek. Authorities were notified of the spill. Wolf Eagle performed soil sampling and analysis to verify if fluid spilled on Client's property contained hydrocarbons from drilling operation.

Upon arrival, Wolf Eagle identified frac pond contents (soil, water and pond liner) being removed by a contractor directly adjacent to Client's property. Client's previous complaints to regulatory authorities included compromised frac pond berm and resultant spill. Wolf Eagle observed the contractor removing the contents of frac pond and spreading the contents of the pond (water, sludge, soil and liner) across the surface of the pad site. Wolf Eagle technicians identified a berm break on the east side of the pad site with fluid flowing from the frac pond impacting Clients horse pasture. Wolf Eagle technicians also noticed a very strong acrid odor, and suggested to Client that an air test be performed to verify if fugitive air emissions were present. Sampling details are presented in section 4.0.

3.0 Weather Conditions

Weather conditions on January 11, 2010, were confirmed for Decatur Municipal Airport 953964), Decatur, Texas. Sky conditions were reported clear with visibility of 10.0 (SM). Temperature ranges from a low of 25 degrees Fahrenheit to a high of 55 degrees Farenheit. Winds were reported calm out of the south/southwest at an average wind speed of 7.6 miles per hour with occassional gusts up to 16.0 miles per hour.

4.0 Environmental Sampling

4.1 Ambient Air Sampling -

On January 11, 2010, with favorable weather conditions for ambient air testing, Wolf Eagle began air monitoring at one (1) location on Client's property. Monitor location

was chosen east of pad site, in Client's horse pasture which is located in the front of Client's residence approximately 20 yards from pad site fenceline.

Wolf Eagle performed whole air emissions sampling for hydrocarbons (volatile organic compounds (VOCs). Sampling procedures followed ASTM Method 31357 using certified sterilized evacuated pressurized stainless steel Summa canister with 24-hour flow regulator (certified mass flow 24-hour meter) obtained from a certified air testing laboratory (GD Air Testing, Inc., 551 N. Plano Parkway, #429, Richardson, TX). Test was run for 24-hours consecutively. The canister was certified with a canister number and canister batch number from the laboratory verifying proper evacuation and pressurization. The canister location was verified by GPS coordinates. The initial time of can depressurization (opening) was noted and recorded on the chain of custody. Upon completion of sampling the hand valve was closed, brass cap secured and time of closure noted. The canister was collected on January 12, 2010, inspected for damage or dents that could impact quality of sample. No dents or damage to any canister or flow meter was noted. The canister was returned to the certified testing laboratory in a timely fashion to insure quality of sample and chain of custody.

A TO-14 (Toxic Organic Compound) VOC analysis or multiple volatile organic compounds, and a Tentatively Identified Compounds (TIC), along with Light Hydrocarbons (Methane) laboratory analysis were requested and subsequent report characterizing compounds was produced by the certified independent laboratory.

4.2 Soil Sampling

Soil sampling was performed at three locations on Client's property. The first soil sampling location was collected next to the fence of the pad site where the contractor was spreading pond sludge ('sludge pit spread'). The fence line is located to the north of the pad site on Clients' property. The second sampling location was directly east of the frac pond in Client's horse pasture where water was identified flowing from the berm wall of the frac pond ('sludge pit berm'). The berm walls were intact, however, a breach of the berm was noted at the base of the pond and fluids were identified flowing in a south east direction towards Client's property and towards Black Creek. The third location was on pad site where condensate tank valve had been left open. At time of sampling it was noted that sand had replaced soil at location of spill. All samples were tested for volatile organic compounds (Volatiles by EPA 8260).

5.0 Laboratory Results

Ambient Air Sampling Results

Laboratory results of ambient air samples confirmed the presence of numerous hydrocarbons identified as Recognized and Suspected human carcinogens and neurotoxins, (Benzene, Dichlorodifluoromethane (F12), Dichlorotetrafluoroethane (F114) Toluene, m&p Xylenes, Propane, Isobutane, Butane, Isopentane, Pentane, Methyl Pentane, Hexane, Methyl Cyclohexane). The compounds identified are known to emanate from processes directly related to the natural gas industry. The laboratory results confirmed fugitive air emissions exceeding TCEQ Effects Screening Levels (ESLs) for Benzene (Long-Term), and Propane (Short-Term and Long-Term). In addition, concentrations of Methane were identified in levels that exceed ambient background concentrations. Methane is identified as an asphyxiant.

Soil Sampling Results

Laboratory results of soil samples confirmed the presence of numerous hydrocarbons identified as Recognized and Suspected human carcinogens and neurotoxins (1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, 4-Isopropyltoluene, Acetone, Benzene, Carbon disulfide, Ethylbenzene, Isopropylbenzene, m&m Xylene, n-Butylbenzene, n-Propylbenzene, o-Xylene, sec-Butylbenzene, tert-Butylbenzene, Toluene). The compounds identified are known to emanate from processes directly related to the natural gas industry.

6.0 Discussion

Based on scientific probabilty, compounds identified in air and soil samples are chemicals that emanate from processes directly related to the natural gas industry (exploration, mining, compression, storage and treatment). Many of these same compounds have been identified by Wolf Eagle at numerous sites in and around the Dallas/Fort Worth metroplex where natural gas activities are occurring. The location of Client's property is identified as rural residential. No other industrial activities that produce these compounds exist in this area. No other business was identified, other than the natural gas industry in or near the area. Cattle operations were not in concentrations that would account for high concentration of methane.

The process of spreading contents of frac/sludge ponds on surface property commonly referred to in the industry as "land farming" is not a recommended process due to the potential for multiple sources of environmental contamination, although frequent used. Historically, land farming is a practice that has occurred in primarily unpopulated rural areas. In hot summer months, spreading hydrocarbon contaminated soil on surface soils can actually aide in (increasing) the rate of volatility of the hydrocarbons in the soil and drive the hydrocarbons from a solid state to a gaseous state dispersing the compounds into the atmosphere. Although

effective, it is an antiquated practice with inherent risks for contamination of sensitive ecosystems, waterways, animals populations as well as human populations. It appears, Aruba has a policy of landfarming hydrocarbon impacted soil in Wise County as evidenced by landfarming being performed at the intersection of Allison Slidell and Star Shell Road. In this specific case, Client was exposed to carcinogenic and neurotoxin compounds from this practice reflected by laboratory results.

Atmospheric concentrations of Recognized and Suspected carcinogens, and neurotoxins were identified through laboratory testing. Given the presence of hydrocarbon impacted soil near Client's property, it is probable that hydrocarbons escaping soil into the air was reflected in the air laboratory results. However, given the high concentration of methane identified in the atmosphere, it is scientifically probable that emissions from the existing wellheads (Wright Lease 7H, 8H) as well as fugitive emissions from condensate tanks are major contributors to atmospheric methane rather than from the spill. Similar methane concentrations have been identified by Wolf Eagle in areas surrounding compression stations.

7.0 Conclusion

Air and soil analysis on property owned by Mr. and Mrs. Ruggiero confirmed the presence of concentrations of hydrocarbons including, Recognized and Suspected carcinogens and neurotoxin compounds in the ambient air and soil on Client's property. The compounds identified in the air exist in concentrations in excess of what would normally be anticipated in ambient background conditions of a residential rural community. Many of these compounds, verified by laboratory analysis were in concentrations exceeding TCEQ Effects Screening Levels. Effects Screening Levels were established by TCEQ based on data concerning health effects, odor/nuisance potential and effects on vegetation. Of primary concern are high levels of methane identified on Client's property. ESLs have not been established at this time to compare exceedences on either a short term or long term exposure; however, the level of methane present in this sampling is considered potentially harmful due to its capability as an asphyxiant. Volatile organic compounds by their instrinsic nature are highly volatile and may, under different meteorological conditions, produce additional compounds not identified in this study.

This study is not considered to be a comprehensive study nor complete in characterizing fugitive air emissions apparent under all meteorological conditions. Continued monitoring is strongly recommended given the high concentrations of carcinogenic compounds that were identified exceeding TCEQ ESLs and specifically the high concentation of methane, a known asphyxiant. Based on reasonable scientific probability the concentrations identified during this test may represent chemical concentrations at minimal levels when averaged on an annual basis. Effort should be made to minimize any further exposure to fugitive air emissions in these concentrations due to the potential for adverse health effects.

8.0 Statement of Confidentialty

This report was prepared exclusively for the use and reliance of Client. The content shall not be disseminated, in whole or in part, without the written consent of any authorized representative of same. The scope of this report is specific to Client, and may not be suitable for other users. Wolf Eagle accepts no responsibility for the unauthorized manipulation or misuse of this report whether intentional or unintentional.

Respectfully submitted,

Alisa Rich, MPH, PhD (ABD)

President

Wolf Eagle Environmental

682-502-6056 office

682-502-6069 fax

www.wolfeagleenvironmental.com

Mr. and Mrs. ___,10thy Ruggiero Air Monitoring Results Monitor Location: Ruggiero West Fence Line January 11, 2010

January 11, 2010
TCEQ Exceedence Estimation

Monitor #62417

No	42.00	180.00	No	380.0	1600.00	ND	ND	106.0	106423	o-Xylene
	42.00	180.00	No	80.00	350.00	0.56	2.40	106.0	1330207	m&p Xylenes
No	25.00	125.00	No	250.00	1250.00	ND	ND	120.0	95636	1,2,4-Trimethlybenzene
No	10.00	54.00	No	100.00	540.00	ND	ND	131.0	79016	Trichloroethene (TCE)
										4-Ethyltoluene
No	25.00	125.00	No	250.00	1250.00	ND	ND	120.0	108678	1,3,5-Trimethylbenzene/
No	330.00	1200.00 3	No	170.00	640.00	1.73	6.50	92.0	108883	Toluene
No	3.80	26.00	8	300.00	2000.00	ND	ND	166.0	127184	Tetrachloroethene (PCE)
No	1.00	7.00	No.	10.00	70.00	ND	ND	167.0		1,1,2,2-Tetrachloroethane
S	1.00	4.00	No.	40.00	160.00	ND	ND	98.0	107062	1,2-Dichloroethane (EDC)*
No	00.00	50000.00 1000.00	No	10000.00	0.665 50000.00	0.665	4.65	170.9	76142	Dichlorotetrafluoroethane (F114)
No	1000.00	5000,00 100	8	10000.00	0.63 50000.00	0.63	3.13	120.9	75718	Dichlorodifluoromethane (F12)
										Methyl chloride
No	50.00	103,00	No	500.00	1030.00	ND	ND	50.0	74873	Chloromethane/
Tes	1.40	4.50	No	54.00	170.00	2.56	8.17	78.0	71432	Benzene
										TO-14
m	ESL (ppb) Lg Term	ESL ug/m3 ESL	Sh Term I		ESL ug/m3 ESL (ppb)					
در	erm TCEQ	g Term Lg Term	TCEQ	Sht Term	Sht Term	Vadd	Em/gu			
eds	Q Exceeds TCEQ	CEQ TOEQ	Exceeds TCEQ	TCEQ	TCEQ	Results TCEQ	Results	MM	CAS	Pollutant

Pollutant	CAS	WW	Results ug/m3	Results TCEQ ppbv Sht Te	TCEQ TCEQ Sht Term Sht Term		100	TCEQ Lg Term	TCEQ Lg Term	Exceeds TCEQ TCEQ Short Is Term ESL B	TCEQ Short Tern FSI Basis
					ESL ug/m3/ESL (ppb)		NAME OF	킖	ESL (ppb)/Lg Term	Lg Term	ES
TIC											
Propane	78986	44	113.00	62.90	135.0	55.0	Yes	2.60	1.10	Yes	
Isobutane	75285	58	80.70	34.00	4800.0	2040.0	No	480.00	204.00	No	
Butane	106978	58	164.00	69.00	19000.0	8000.0	No	1900.00	800.00	No	Health
Methyl butane/Isopentane	78784	72	188.00	64.00	4800.0	2040.0	No	480.0	204.0	No	Healti
Pentane	109660	72	124.00	124.00 42.00	3500.0	1200.0	No	350.0	120.0	No	Healt

Mr. and Mrs. ___othy Ruggiero Air Monitoring Results

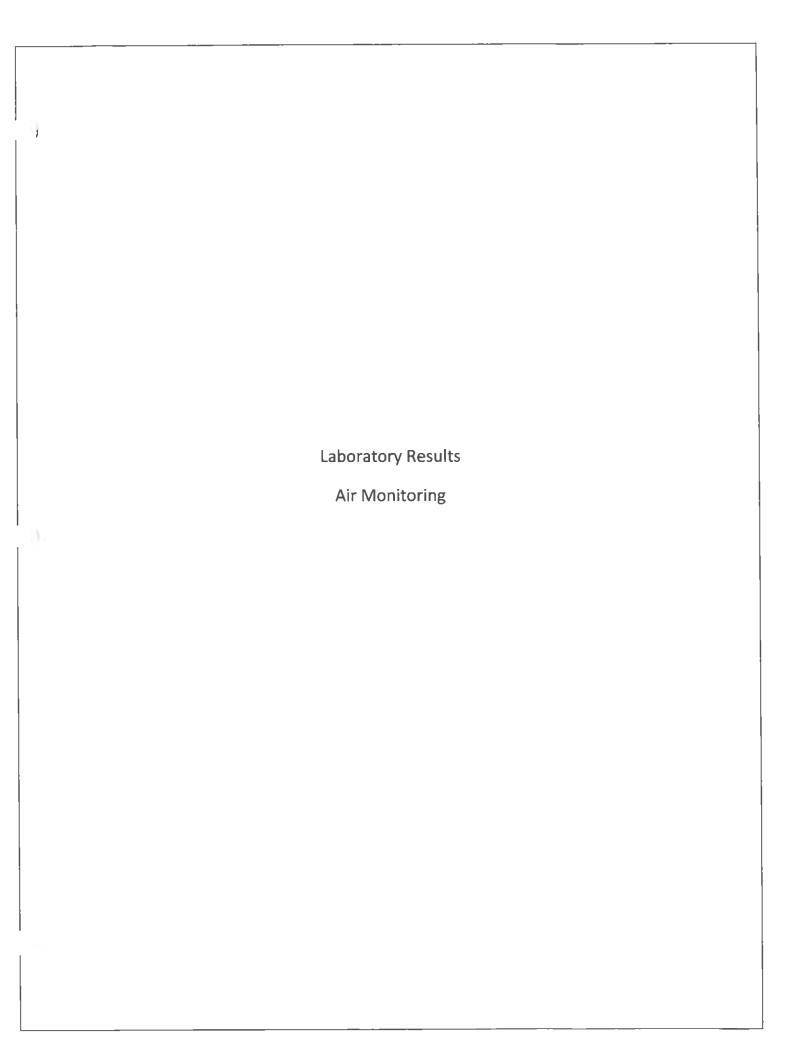
Monitor Location: Ruggiero West Fence l' January 11, 2010

Monitor #2877

Pollutant	CAS	MW	Results	Results TCEQ		TCEQ	Exceeds TCEQ	TCEQ	TCEQ	Exceeds TCEQ	TCEQ
			ug/m3	yddd	Sht Term Sht Term		TCEQ	Lg Term	Lg Term	TCEQ	Short Term
					ESL ug/m3	ESL ug/m3 ESL (ppb) Sht		Ferm ESL ug/m3 ESL (ppb) Lg Term ESL Basis	ESL (ppb)	Lg Term	ESL Basis
TIC											
Methyl Pentane	96140	86		92.90 26.40	3500	1000	No	350	100	No	Health
Hexane	110543	86	29.20	8.60	5300	1600	No	200	57	No	Health
Methyl Cyclohexane	108872	98	15.20	3.80	16100	4000	No	1610	400	No	Health
C8 Hydrocarbon		114		7.13 1.53							

^{*24-}hr and annual for monitoring

^{**}Indicates the constituent has disaster potential





www. gdair.com

CLIENT: Allsa Rich Wolf Eagle PO Box 270541 Flowermound, TX 75022

Project No.:

NA

GD Air Testing Lab. ID: Revised Report Date:

Date Analyzed: Analyzed by:

GD Air QC Batch: Method: NELAP Certification #: GD10-0007-001 26-Jan-10 13-Jan-10

LAJ QC-011310TQ14

EPATO14

T104704364-09-TX

REVISED

REPORT OF ANALYTICAL RESULTS

Page 1 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	S/	AMPLED DATE	RECEIVED
Raggiero West Fence Line CONSTITUENT	Air	David S.		01/11/10	01/13/10
CONSTITUENT	MW	CAS	PQL*	RESULT	NOT
			ррьу	ppbv	ug/au M
Benzene	78	71432	1.6	2,56	8.17
Benzylchloride	126.6		0.3	ND	ND
Bromomethane (Methyl Bromide)	94.9	74839	0.3	ND	ND
Carbon tetrachloride	153.8	56235	0.3	ND	ND
Chlorobenzene	112.6	108907	0.3	ND	
Chloroethane (Ethyl Chloride)	64.5	75003	0.3	ND	ND
Chloroform	119	67663	0.3	ND ND	ND
Chloromethane (Methyl Chloride)	50.4	74873	0.3		ND
1,2-Dibromoethane (EDB)	187.9	106934	0.3	ND	ND
1,2-Dichlorobenzene	147	95501		ND	ND
1,3-Dichlorobenzene	147	=	0.3	ND	ND
1,4-Dichiorobenzene	147	541731 106467	0.3	ND	ND
1.1-Dichloroethans	99	75343	0.3	ND	ND
1.1-Dichlorethene	97	•	0.3	ND	ND
Dichlorodifluoromethane (F12)	120.9	75354	0.3	ND	ND
Dichlorotetrafluoroethane (F114)		7571B	0.3	0.63	3.13
1,2-Dichloroethane (EDC)	170.9	76142	0.3	0.665	4.65
cis-1,2-Dichloroethene	99	107062	0.3	ND	ND
	97	156694	0.3	ND	ND
rans-1,2-Dichloroethene	97	156605	0,3	ND	ND
Dichloromethane (Methylene chloride)	84.9	75092	0.3	ND	ND
,2-Dichloropropane	113.	+	0.3	ND	ND
cls-1,3-Dichloropropene		10061015	0.3	ND	ND
rans-1,3-Dichloropropene		10061026	0.3	ND	ND
Ethylbenzene	106	100411	0.3	ND	ND
dexachlorobutadiene	260.8	87683	0.7	ND	ND
Styrene	104	100425	0.3	ND	ND
,1,2,2-Tetrachloroethane	167.9	79345	0.3	ND	ND
Tetrachioroethene (PCE)	165.8	127184	0.3	ND	ND
l'oluene le la company de la c	92	108883	0.3	1.73	6.5
1,1,1-Trichloroethane (TCA)	133.4	71558	0.3	ND	ND
1,1,2-Trichloroethane	133.4	79005	0.3	ND	ND
,3,5-Trimethylbenzene/4-Ethyltoluene	120.2	108678	0.3	ND	ND
,2,4-Trimethylbenzene	120.2	95636	0.3	ND	NO
,2,4-Trichlorobenzene	181.5	120821	0.7	ND	ND
richloroethene (TCE)	131.3	79016	0.3	ND	ND

PAGE 2 OF 3



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CLIENT: Allsa Rich

Wolf Eagle PO Box 270541

Fiowermound, TX 76022

Project No.:

NA

GD Air Testing Lab. ID:

Revised Report Date:

Date Analyzed: Analyzed by:

GD Air QC Batch:

Method: NELAP Certification #: GD10-0007-001

26-Jan-10

13-Jan-10

LAJ

QC-011310TO14 EPATO14

T104704364-09-TX

REVISED

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	S/	AMPLED DATI	E /RECEIVED
Raggiero West Fence Line	Air	David S.	·	01/11/10	01/13/10
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE
			ррву	ppbv	ug/cu M
Trichlorofluoromethane (F-11)	137.4	75694	0,3	ND	ND
Trichioritrifluoraethene (F-113)	187.4		0.3	ND	ND
Vinyl Chloride	62.5	75104	0.3	ND	ND
m&p-Xylenes	106	1330207	0.3	0.56	2.4
o-Xylene	108	95476	0.3	ND	ND
Tentatively Identified Compounds (TICs)				• • • •
Propane	44		1.3	62,9	113 CN
lsobutane	58		1.3	34,0	80.7 CN
Butane	58		1.3	69.0	164 CN
Methyl butane	72		1.3	64.0	188 CN
Pentane	72		1.3	42.0	124 CN
Methyl pentane	86		1.3	26.4	92.9 CN
Hexane	86		1.3	8.30	29.2 CN
Methyl cyclohexane	98		1.3	3.80	15.2 CN
C8 Hydrocarbon	114		1.3	1,53	7.13
Surrogate Recovery Report			Spiked	Found	R%
			ppbv	ppbv	
1,4-Difluorobenzene (SS1)	118.1	540363	5.00	5.73	115
Bromofluorobenzene (SS2) *Comparison with the method blank t	175		5.00	6.06	121

Respectfully submitted

GD Air Testing, Inc

George Dai, Rb.D.

Laboratory Director

Data File:chem/gd5973.I/011310.B/01131014.D Report File: GDAIR D:\Client-Report\GD10-0007-001

PAGE 3 OF 3

CN: See Case Narrative.

Canister #62417 was received at an initial pressure of -0.15psi and pressurized to 4.4psi.

^{*}RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

^{*} The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.



CLIENT: Alisa Rich Wolf Eagle PO Box 270541

Flowermound, TX 75022

Project No.:

NA

GD Air Testing Lab. ID:

Report Date:

Date Analyzed: Analyzed by:

GD Air QC Batch:

Method:

NELAP Certification #:

GD10-0007-001

15-Jan-10 13-Jan-10

LAJ

QC-011310TO14

EPATO14

T104704364-09-TX

REPORT OF ANALYTICAL RESULTS

Page 1 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	S/	AMPLED DATE	E /RECEIVED
Ragglero West Fence Line	Air	David S.		01/11/10	01/13/10
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE
		 	ppbv	ppbv	ug/cu M
Benzene	78	71432	1.6	2.56	8.17
Benzylchloride	126.6	100447	0.3	ND	ND
Bromomethane (Methyl Bromide)	94.9	74839	0.3	ND	ND
Carbon tetrachloride	153.8	56235	0.3	ND	ND
Chlorobenzene	112.6	108907	0.3	ND	ND
Chloroethane (Ethyl Chloride)	64.5	75003	0.3	ND	ND
Chloroform	119	67663	0.3	ND	ND
Chloromethane (Methyl Chloride)	50.4	74873	0.3	ND	ND
1,2-Dibromoethane (EDB)	187.9	106934	0.3	ND	ND
1,2-Dichlorobenzene	147	95501	0.3	ND	ND
1,3-Dichlorobenzene	147	541731	0.3	ND	ND
1,4-Dichlorobenzene	147	106467	0.3	ND	ND
1,1-Dichloroethane	99	75343	0.3	ND	ND
1,1-Dichlorethene	97	75354	0.3	ND	ND
Dichlorodifluoromethane (F12)	120.9	75718	0.3	0.63	3.13
Dichlorotetrafluoroethane (F114)	170.9	76142	0.3	0.665	4.65
1,2-Dichloroethane (EDC)	99	107062	0.3	ND	ND
cis-1,2-Dichloroethene	97	156694	0.3	ND	ND
trans-1,2-Dichloroethene	97	156605	0.3	ND	ND
Dichloromethane (Methylene chloride)	84.9	75092	0.3	ND	ND
1,2-Dichloropropane	113,	78875	0.3	ND	ND
cis-1,3-Dichloropropene	111	10061015	0.3	ND	ND
trans-1,3-Dichloropropene	111	10061026	0.3	ND	ND
Ethylbenzene	106	100411	0.3	ND	ND
Hexachlorobutadiene	260.8	87683	0.7	ND	ND
Styrene	104	100425	0.3	ND	ND
1,1,2,2-Tetrachloroethane	167.9	79345	0.3	ND	ND
Tetrachloroethene (PCE)	165.8	127184	0.3	ND	ND
Toluene	92	108883	0.3	1.73	6.5
1,1,1-Trichloroethane (TCA)	133.4	71556	0.3	ND	ND
1,1,2-Trichloroethane	133.4	79005	0.3	ND	ND
1,3,5-Trimethylbenzene/4-Ethyltoluene	120.2	108678	0.3	ND	ND
1,2,4-Trimethylbenzene	120.2	95636	0.3	ND	ND
1,2,4-Trichlorobenzene	181.5	120821	0.7	ND	ND
Trichloroethene (TCE)	131.3	79016	0.3	ND	ND

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CLIENT: Alisa Rich

Wolf Eagle PO Box 270541

Flowermound, TX 75022

Project No.:

NA

GD Air Testing Lab. ID:

Report Date:

GD10-0007-001 15-Jan-10

Date Analyzed:

13-Jan-10

Analyzed by: GD Air QC Batch: LAJ

Method:

QC-011310TO14

EPATO14

NELAP Certification #:

T104704364-09-TX

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	S/	AMPLED DAT	E /RECEIVED
Raggiero West Fence Line	Air	David S.		01/11/10	01/13/10
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE
			ppbv	ppbv	ug/cu M
Trichlorofluoromethane (F-11)	137.4	75694	0.3	ND	ND
Trichloritrifluoroethane (F-113)	187.4		0.3	ND	ND
Vinyl Chloride	62.5		0.3	ND	ND
m&p-Xylenes	106		0.3	0.56	2.4
o-Xylene	106		0.3	ND	ND
Tentatively Identified Compounds (T			3.0	115	140
C3 Hydrocarbon	. 44		1.3	62.9	113
C4 Hydrocarbon	58		1.3	103	244
C5 Hydrocarbon	72		1.3	106	312
C6 Hydrocarbon	58		1.3	34.4	81.6
C7 Hydrocarbon	100		1.3	3.80	15.5
C8 Hydrocarbon	114		1.3	1.53	7.13
Surrogate Recovery Report			Spiked	Found	R%
			ppbv	ppbv	1 \ 70
1,4-Difluorobenzene (SS1)	118.1	540363	5.00	5 .73	115
Bromofluorobenzene (SS2)	175	460004	5.00	6.06	121
*Comparison with the method blank this	s sample run w	ith a dilution fac	tor of:	1.31	

^{*}Comparison with the method blank this sample run with a dilution factor of:

Respectfully submitted

GD Air Testing, Inc.

George Dai, Ph.D.\ Laboratory Director

Data File:chem\gd5973.I\011310.B\01131014.D

Report File: GDAIR D:\Client-Report\GD10-0007-001

PAGE 4 OF 10

Canister #62417 was received at an initial pressure of -0.15psi and pressurized to 4.4psi.

^{*}RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

^{*} The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

^{*}Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

^{*}QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)



CLIENT: Alisa Rich

Wolf Eagle PO Box 270541

Flower Mound, TX 75027

GD Air Testing Lab. ID:

GD10-0007-1F

Report Date: 1/20/2010

Date Analyzed: 1/14/2010 Analyzed by: JCA

Analyzed by: JCA GD QC Batch: QC-011410F

Method: ASTM 1945

Site: NA

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	S	AMPLED DAT	E /RECEIVED
Raggiero West Fence Line	Air	David S.		01/11/10	01/13/10
CONSTITUENT	MW		PQL* ppmv	RESULT ppmv	NOTE
Methane	16.0		1.3	3.0	
Ethane Propane	30.0 44.0		1.3 1.3	ND ND	
Butane	58.0		1.3	ND	
Pentane Hexane	72.0 86.0		1.3 1.3	ND ND	

Canister #62417 was received at an initial pressure of -0.15psi and was pressurized to 4.4psi.

*Comparision with the method blank this sample run with a dilution factor of:

1.3

Respectfully submitted

GD Air Testing, Inc.

George Dai, Ph.D. Laboratory Director

Data File: C:\STAR\MODULE16\01140006.RUN

Report File: GDAIR D:\Client_Report\gd10-0007-1F

PAGE 5 OF 10

^{*}RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

^{*} The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

^{*}QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Laboratory Results

Air Monitoring

QA/QC Blanks



CLIENT: GD Air Testing, Inc.

Project No.:

GD Air Testing Lab. ID:

Method Blank

Report Date: Date Analyzed:

01/13/10 01/13/10

Analyzed by: GD Air QC Batch:

LAJ QC-011310

Method:

EPATO14

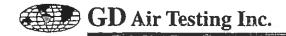
NELAP Certification #:

T104704364-09-TX

REPORT OF METHOD BLANK RESULTS

Page 1 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SA	MPLED DATE	E /RECEIVED
BLK	Air				
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE
			ppbv	ppbv	ug/cu M
_			_		
Benzene	78		1.20	ND	ND
Benzylchloride	126.6		0.20	ND	ND
Bromomethane (Methyl Bromide)	94.9		0.20	ND	ND
Carbon tetrachloride	153.8		0.20	ND	ND
Chlorobenzene	112.6		0.20	ND	ND
Chloroethane (Ethyl Chloride)	64.5		0.20	ND	ND
Chloroform	119		0.20	ND	ND
Chloromethane (Methyl Chloride)	50.4	74873	0.20	ND	ND
1,2-Dibromoethane (EDB)	187.9	106934	0.20	ND	ND
1,2-Dichlorobenzene	147	95501	0.20	ND	ND
1,3-Dichlorobenzene	147	541731	0.20	ND	ND
1,4-Dichlorobenzene	147	106467	0.20	ND	ND
1,1-Dichloroethane	99	75343	0.20	ND	ND
1,1-Dichlorethene	97	75354	0.20	ND	ND
Dichlorodifluoromethane (F12)	120.9	75718	0.20	ND	ND
Dichlorotetrafluoroethane (F114)	170.9	76142	0.20	ND	ND
1,2-Dichloroethane (EDC)	99	107062	0.20	ND	ND
cis-1,2-Dichloroethene	97	156694	0.20	ND	ND
trans-1,2-Dichloroethene	97	156605	0.20	ND	ND
Dichloromethane (Methylene chloride)	84.9	75092	0.20	ND	ND
1,2-Dichloropropane	113	78875	0.20	ND	ND
cis-1,3-Dichloropropene	111	10061015	0.20	ND	ND
trans-1,3-Dichloropropene	111	10061026	0.20	ND	ND
Ethylbenzene	106	100411	0.20	ND	ND
Hexachlorobutadiene	260.8	87683	0.50	ND	ND
Styrene	104	100425	0.20	ND	ND
1,1,2,2-Tetrachloroethane	167.9		0.20	ND	ND
Tetrachloroethene (PCE)	165.8		0.20	ND	ND
Toluene	92		0.20	ND	ND
1,1,1-Trichloroethane (TCA)	133.4		0.20	ND	ND
1,1,2-Trichloroethane	133.4		0.20	ND	ND
1,3,5-Trimethylbenzene/4-Ethyltoluene	120.2	-	0.20	ND	ND
1,2,4-Trimethylbenzene	120.2		0.20	ND	ND
1,2,4-Trichlorobenzene	181.5		0.50	ND	ND
Trichloroethene (TCE)	131.3		0.20	ND	ND
, ,			3.20	, 10	DACE 6.0E 40



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date: Date Analyzed:

01/13/10 01/13/10

Analyzed by: GD Air QC Batch:

LAJ QC-011310

Project No.: QC

Method:

EPATO14

NELAP Certification #:

T104704364-09-TX

REPORT OF ANALYTICAL RESULTS

Page 2 of 2

SAMPLE DESCRIPTION	MATRIX	SAMPLE BY	SA	MPLED DATE	/RECEIVED
BLK	Air				
CONSTITUENT	MW	CAS	PQL*	RESULT	NOTE
			ppbv	ppbv	ug/cu M
Trichlorofluoromethane (F-11)	137.4	75694	0.20	ND	ND
Trichloritrifluoroethane (F-113)	187.4	76131	0.20	ND	ND
Vinyl Chloride	62.5	75104	0.20	ND	ND
m&p-Xylenes	106	1330207	0.50	ND	ND
o-Xylene	106	95476	0.20	ND	ND
Surrogate Recovery Report			Spiked	Found	R%
			ppbv	ppbv	
1,4-Difluorobenzene (SS1)	118 .1	540363	5.00	4.64	92.8
Bromofluorobenzene (SS2)	175	460004	5.00	4.89	97.8

^{*}Comparison with the method blank this sample run with a dilution factor of:

1.0

Respectfully submitted

GD Air Testing, Inc.

ahi

George Dai, Ph.D. Laboratory Director

Data File: c:\chem\gd5973.I\011310.B\01131007.D

Report File: GD SRI\D\QC10-TO14\Blank

PAGE 7 OF 10

^{*}RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

^{*} The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

^{*}Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

^{*}QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

BS/BSD

Report Date:

01/13/10

Project No.:

Date Analyzed: Analyzed by:

01/13/10 LAJ

GD Air QC Batch: Method: QC-011310

NELAP Certification #:

EPATO14 T104704364-09-TX

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLE	BY	SAMPLE	DATE /REC	EIVED
BS/BSD	Air					
Spike Control Compounds	Callead					
Spike Control Compounds	Spiked	501		and Recov	•	
	ppbv	BS/ppbv	BS R%	BSD	BSD R%	% RPD
VOLATILE ORGANICS BY EPA TO-14						
Vinyl Chloride	10.0	12.8	12	3 10.7	107	17.9
Methylene chloride (Dichloromethane)	10.0	10.6				
1,1,1-Trichloroethane	10.0	11.5	11			
1,2-Dichloroethane (EDC)	10.0	12.2	12:	2 11.5		
Benzene	10.0	9.8	9:	9.3	93	
Carbon tetrachloride	10.0	11.6	110	3 10.8	108	7.1
Trichloroethene (TCE)	10.0	10.3	10	3 10.2	102	1.0
Toluene	10.0	11.6	110	3 10.8	108	7.1
Chlorobenzene	10.0	10.8	10	B 10.3	103	4.7
Ethylbenzene	10.0	11.8	11	3 11.3	113	4.3
o-Xylene	10.0	11.40	11-	4 10.5	105	8.2
Surrogate Recovery Report						
1,4-Difluorobenzene (SS1)	5.0	5.17	103.4	4 5.12	102.4	1.0
Bromofluorobenzene (SS2)	5.0					

^{*} The control limit for BS Recovery % of all spiked compound is 70% - 130%

Respectfully submitted

GD Air Testing, Inc.

George Dai, Ph.D.
Laboratory Director

Data File: c:\chem\gd5973.I\011310.B\01131004.D and 01131005.D

Report File: GD\SRI\D:\QC-TO14\BS-BSD

PAGE 8 OF 10

^{*} The control limit for relative percentage difference of BS/BSD is 30%

^{*} If any control compound is not within the control limit, please see the case narrative for more details.

^{*} The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

CLIENT: GD Air Testing Inc. QA

GD Air Testing Lab. ID:

QC-BLK-011410F

Report Date:

1/20/2010

Date Analyzed:

1/14/2010

Analyzed by:

JCA

Method:

ASTM 1945

REPORT OF METHOD BLANK RESULTS

Page 1 of 1

SAMPLE DESCRIPTION Method Blank	MATRIX SAMPLE BY GAS	SAMPLED DATE /RECEIVED				
CONSTITUENT	MW	PQL*	RESULT ppmv	NOTE		
Methane	16	1.00	ND			
Ethane	30	1.00	ND			
Propane	44	1.00	ND			
Butane	58	1.00	ND			
Pentane	72	1.00	ND			
Hexane	86	1.00	ND			

^{*}RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

Respectfully submitted GD Air Testing, Inc.

20 / III / COLING, INC.

George Dai, Ph.D. Laboratory Director

Data File: Varian 3400/C:\STAR\MODULE 16\01140002.RUN Report File: GDAIR D:\Client_Report\Method-18-blk-011410

PAGE 9 OF 10

^{*} The control limit for method blank is < 1.0 ppmv for each compound.

^{*} If any compound is out of control limit, please see the case narrative for more details.

CLIENT: GD Air Testing Inc. QA

GD Air Testing Lab. ID:

QC-011410F

Report Date:

1/20/2010

Date Analyzed: Analyzed by:

1/14/2010 **JCA**

Method:

ASTM 1945

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

SAMPLE DESCRIPTION BS/BSD		ATRIX S AS	SAMPLE BY		SAMPLED D	ATE /RECEIVED
CONSTITUENT	Spiked	F	ound and Rec	overy		NOTE
,	ppmv	BS	BS, R%	BSD	BSD, R%	RPD %
Methane	50.0	46.9	94	52.7	105	11.6
Ethane	50.0	48.3	97	54.2	108	11.5
Propane	50.0	48.4	97	54.1	108	11.1
Butane	50.0	48.0	96	53.2	106	10.3
Pentane	50.0	48.0	96	51.6	103	7.2
Hexane	100.0	102.0	102	97.2	97	4.8

^{*} The control limit for BS Recovery % of all spiked compound is 70% - 130%

Respectfully submitted GD Air Testing, Inc.

George Dai, Ph.D.\ Laboratory Director

Data File: C:\STAR\MODULE16\01140003, 01140004.RUN Report File: GDAIR D:\Client_Report\ASTM 1945-bs-011410F

PAGE 10 OF 10

^{**} The control limit for relative percentage difference of BS/BSD is 30%

^{***} If any control compound is not within the control limit, please see the case narrative for more details.

Case Narrative

January 21, 2010

Alisa Rich Wolf Eagle PO Box 270541 Flowermound, TX 75022

RE: Presence of benzene in the method blank

One air canister was submitted to GD Air Testing, Inc. for the analysis of VOCs and Light Hydrocarbons on 01/13/2010.

The method blank that ran with this sample showed the presence of benzene at 1.1ppbv. The detection limit for benzene was increased from 0.2ppbv to 1.2ppbv to reflect this issue. The sample that ran with this QC batch had benzene at a concentration of 2.56ppbv. The detection limit was raised, and the result was not blank subtracted.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Dr. George Dai GD Air Testing Inc.

Lab Director

Ruggiero-January 11, 2010

Sudge PIL Sudg									
					Sludge Pit		Sludge Pit		Sludge Pit
EEA 8260 - Solid Matrix CAS Number Tot Soli Results converted Results (and Results converted Results (and Results converted Results (and Result					Spread		Berm	Sludge Pit	Condensate Spill
CAS Number Tot Sall In Up/Ag Converted Results Converted In Up/Ag In					Results		Results		Results
EPA 8260 - Solid Matrix CAS Number Tot Solid In ug/kg In				Results	converted	Results	converted		converted
Trachlochtane 657641 6.506+02 ND Lug/Ng Lug/Ng Lug/Ng Lug/Ng Lug/Ng Lug/Ng Lug/Ng MD ND	Volatiles by EPA 8260 - Solid Matrix		Tot Soil	in ug/kg	to mg/kg	in ug/kg	to mg/kg	in ug/kg	to mg/kg
trachloethane 67641 6.506+01 ND ND ND ND trachlorosethane 73456 5.206+02 ND N			mg/kg		mg/kg		mg/kg		mg/kg
Iorocethane 71356 5.20E-02 NO ND ND trachlorocethane 79345 6.90E-00 ND ND ND ND corethane 79345 6.90E-01 ND ND ND ND corethane 75345 1.30E-01 ND ND ND ND corethane 75354 2.30E-03 ND ND ND ND corpropane 95184 8.70E-01 ND ND ND ND corpropane 95184 8.70E-01 ND ND ND ND corpropane 95184 8.70E-01 ND ND ND ND corpropane 95536 1.30E-02 ND ND ND ND corpropane 95501 7.20E-02 ND ND ND ND corpropane 78873 6.10E-01 ND ND ND ND corpropane 95498 1.0E-02 ND ND	1,1,1,2 - Tetrachloethane	67641	6.50E+01	ND		ND		ND	
trachloroethane 79345 6,00E+00 ND ND ND loroethane 79005 1,80E+01 ND ND ND ND roethane 75343 4,50E+03 ND ND ND ND roethane 75343 4,50E+03 ND ND ND ND roppopare 56358 3,60E+01 ND ND ND ND roppopare 95386 1,30E+02 ND ND ND ND roppopare 95497 6,10E+02 ND ND ND ND roppopare 95498 1,00E+02 ND ND ND ND roppopare 95498 1,00E+02 ND ND <	1,1,1 - Trichloroethane	71556		NO		NO		ND	
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TOP/TOPENER 553586 3.60E+01 ND ND </td <td>1,1, - Dichloroethene</td> <td>75354</td> <td>2.30E+03</td> <td>N</td> <td></td> <td>ND</td> <td></td> <td>NO</td> <td></td>	1,1, - Dichloroethene	75354	2.30E+03	N		ND		NO	
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robenzene 95501 7,20E+O2 ND ND ND oethane 107062 1.10E+O1 ND ND ND ND ropropane 78875 6.10E+O1 ND ND ND ND ropropane 106467 2.50E+O2 ND ND ND ND ropropane 594207 6.10E+O1 ND ND ND ND ropropane 95438 1.00E+O3 ND ND ND ND uene 95498 1.00E+O3 ND ND ND ND tolu-ene/(MEK) 78933 3.40E+O4 23 0.023 ND ND ND tolu-ene/(MEK) 71432 6.60E+O1 29 0.029 ND ND ND romethane 108861 1.50E+O2 ND ND ND ND romethane 75247 9.80E+O1 ND ND ND ND romethane 72439 4.60E+O1	1,2,- Dibromoethane			NB		ND		ND	
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ropropane 594207 6.10E+01 ND ND <td>1,4 - Dichlorobenzene</td> <td>106467</td> <td>2.50E+02</td> <td>NO</td> <td></td> <td>NO</td> <td></td> <td>ND</td> <td></td>	1,4 - Dichlorobenzene	106467	2.50E+02	NO		NO		ND	
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ene 108861 1.50E+02 ND ND omethane 75247 9.80E+01 ND ND oromethane 75247 9.80E+01 ND ND anne 74839 4.60E+01 ND ND	Benzene	71432	6.60E+01	29	0.029	ND		20	0.02
omethane 75247 9.80E+01 ND ND ND oromethane 75252 4.00E+02 ND ND ND ane 74839 4.60E+01 ND ND ND	Bromobenzene	108861	1.50€+02	N		ND	ļ	ND	
oromethane 75247 9.80E+01 ND ND 75252 4.00E+02 ND ND nane 74839 4.60E+01 ND ND	Bromochloromethane			ND		ND		ND	
75252 4.00E+02 ND ND ND 30E ND	Bromodichloromethane	75247	9,80E+01	ND		No.		ND	
74839 4.60E+01 ND ND	Bromoform	75252	4.00E+02	ND		ND		ND	
	Bromomethane	74839	4.60E+01	N		ND		ND	

0.081	81		ND	0.21	210	1.10E+02	108678	1,3,5 Trimethylbenzene
	ND		ND		ND	3.70E+00	75014	VInyl Chloride
	ON		ND		ND			Trichlorethene
	ND		ND		ND	3.60E+01	10061026	trans-1,3-Dichloropropene
	ND		ND ND		ND			trans-1,2-Dichloroethene
0.16	160		ND	0.13	130	5.90E+03	108883	Toluene
	ND		ND		ND			Tetrachlorethene
	ND		ND	0.002	2	1.90E+03	98066	tert-Butylbenzene
	ND		ND		ND	6.70E+03	100425	Styrene
0.0021	2.1		ND	0.022	22	2.10E+03	135988	sec-Butylbenzene
0.075	75		ND	0.19	190	4.80E+04	95476	o-Xylene
0.0078	7.8		No	0.041	41	2.206+03	103651	n-Propylbenzene
0.007	7		ND	0.045	45	1.90E+03	104518	n-Butyibenzene
	ND		ND		ND	3.90E+02	75092	Methylene chloride
0.29	290		ND	0.59	590	8.90E+03	108383	m&p-Xylene
0.0042	4.2		ND	0.021	21	4.30E+03	98828	Isopropylbenzene (Cumene)
0.016	16		NO NO	0.052	52	5.30E+03	100414	Ethylbenzene
	ND		ND		N			Dibromomethane
	ND		ND		ND	7.20E+01	124481	Dibromochloromethane
	ND		ND		ND	7,60E+00	10061015	cis-1,3-Dichloropropene
	ND		ND		ND	7.70E+02	156592	cls-1,2-Dichloroethene
	ND		ND		ND	1.40E+02	74873	Chloromethane
	ND		ND		ND	1.60E+01	67663	Chlaroform
	ND		ND		ND	2.70E+04	75003	Chloroethane
	ND		ND		ND	5.20E+02	108907	Chlorobenzene
	ND		ND		ND	1.60E+01	56235	Carbon tetrachloride
	ND		ND	0.0033	3.3	4.60E+03	75150	Carbon disulfide
mg/kg	ug/kg	7.8/ kg	ug/kg	mg/kg	ug/kg	mg/kg		
to mg/kg	in ug/kg	to mg/kg	in ug/kg	to mg/kg	in ug/kg	Tot Soil	CAS Number	Volatiles by EPA 8260 - Solid Matrix
converted	Results	converted	Results	converted	Results	+61-		
Results	Condensate Spill	Results	Berm	Results	Spread			
Condensate Spill	Sludge Pit	Berm	Sludge Pit	Spread	Sludge Pit			
Sludge Pit		Sludge Pit		Sludge Pit				

Laboratory Results
Soil Samples
Sludge Pit Spread

Anachem, Inc.

Date: 19-Jan-10

CLIENT:

Wolf Eagle Environmental

Ruggiero

Project: Location:

Client Sample:

Decatur

Sludge Pit Spread

Lab Order: 1001048

Lab ID: 1001048-01

Collection Date: 1/11/2010 3:13:00 PM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units		DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID	<u> </u>				Balch:	R58678	Analyst: tp
1,1,1,2-Tetrachloroethane	ND	2.0		μ g/ Kg		1	1/15/2010
1,1,1-Trichloroethane	ND	2.0		μg/Kg		1	1/15/2010
1,1,2,2-Tetrachloroethane	ND	2.0		μg/Kg		1	1/15/2010
1,1,2-Trichloroethane	ND	2.0		μ g/ Kg		1	1/15/2010
1,1-Dichloroethane	ND	2.0		μg/Kg		1	1/15/2010
1,1-Dichloroethene	ND	2.0		μg/Kg		1	1/15/2010
1,1-Dichloropropene	ND	2.0		µg/Kg		1	1/15/2010
1,2,3-Trichloropropane	ND	2.0		μg/Kg		1	1/15/2010
1,2,4-Trimethylbenzene	1500	28		μg/Kg		14	1/18/2010
1,2-Dibromoethane	ND	2.0		μg/Kg		1	1/15/2010
1,2-Dichlorobenzene	ND	2.0		μ g/ Kg		1	1/15/2010
1,2-Dichloroethane	ND	2.0		μg/Kg		1	1/15/2010
1,2-Dichloropropane	ND	2.0		μg/Kg		1	1/15/2010
1,3,5-Trimethylbenzene	210	2.0		μg/Kg		1	1/15/2010
1,3-Dichlorobenzene	ND	2.0		μg/Kg		1	1/15/2010
1,3-Dichloropropane	ND	2.0		µg/Kg		1	1/15/2010
1,4-Dichlorobenzene	ND	2.0		µg/Kg		1	1/15/2010
2,2-Dlchloropropane	ND	2.0		μg/Kg		1	1/15/2010
2-Butanone	ND	20		μg/Kg		1	1/15/2010
2-Chlorotoluene	ND	2.0		μg/Kg		1	1/15/2010
4-Chlorotoluene	ND	2.0		μg/Kg		1	1/15/2010
4-Isopropyltoluene	23	2.0		μg/Kg		1	1/15/2010
Acetone	40	20		μg/Kg		1	1/15/2010
Benzene	29	2.0		µg/Kg		1	1/15/2010
Bromobenzene	ND	2.0		μg/Kg		1	1/15/2010
Bromochloromethane	ND	2.0		μg/Kg		1	1/15/2010
Bromodichloromethane	ND	2.0		μg/Kg		1	1/15/2010
Bromoform	ND	2.0		μg/Kg		1	1/15/2010
Bromomethane	ND	10		μg/Kg		1	1/15/2010
Carbon disulfide	3.3	2.0		μg/Kg		1	1/15/2010
Carbon tetrachloride	ND	2.0		μg/Kg		1	1/15/2010
Chlorobenzene	ND	2.0		μg/Kg		1	1/15/2010
Chloroethane	ND	10	i	µg/Kg		1	1/15/2010
Chloroform	ND	2.0		μg/Kg		1	1/15/2010
Chloromethane	ND	10	I	μg/Kg		1	1/15/2010
cis-1,2-Dichloroethene	ND	2.0	ı	μg/Kg		1	1/15/2010
cis-1,3-Dichloropropene	ND	2.0	ı	μg/Kg		1	1/15/2010
Dibromochloromethane	ND	2.0	I	µg/Kg		1	1/15/2010
Dibromomethane	ND	2.0)	μg/Kg		1	1/15/2010

Qualifiers:

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Included on NELAC Scope of Accreditation N
- S Spike Recovery outside accepted recovery limits
- Е Estimated Value
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit

Anachem, Inc.

Date: 19-Jan-10

CLIENT:

Wolf Eagle Environmental

Project:

Ruggiero

Location:

Client Sample:

Decatur

Sludge Pit Spread

Lab ID: 1001048-01

Collection Date: 1/11/2010 3:13:00 PM

Matrix: SOLID

Lab Order: 1001048

Analyses	Result	Limit	Qual	Units		DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID					Batch:	R58678	Analyst: tp
Ethylbenzene	52	2.0		µg/Kg		1	1/15/2010
Isopropylbenzene	21	2.0		μg/Kg		1	1/15/2010
m,p-Xylene	590	4.0		μg/Kg		1	1/15/2010
Methylene chloride	ND	10		μ g/ Kg		1	1/15/2010
n-Butylbenzene	45	2.0		µg/Kg		1	1/15/2010
n-Propylbenzene	41	2.0		μg/Kg		1	1/15/2010
o-Xylene	190	2.0		μg/Kg		1	1/15/2010
sec-Butylbenzene	22	2.0		μg/Kg		1	1/15/2010
Styrene	ND	2.0		μg/Kg		1	1/15/2010
tert-Butylbenzene	2.0	2.0		μ g/K g		1	1/15/2010
Tetrachloroethene	ND	2.0		μg/Kg		1	1/15/2010
Toluene	130	2.0		µg/Kg		1	1/15/2010
Irans-1,2-Dichloroethene	ND	2.0		μg/Kg		1	1/15/2010
trans-1,3-Dichloropropene	ND	2.0		μg/Kg		1	1/15/2010
Trichloroethene	ND	2.0		μg/Kg		1	1/15/2010
Vinyl chloride	ND	2.0		µg/Kg		1	1/15/2010



В



- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Included on NELAC Scope of Accreditation Ν
- S Spike Recovery outside accepted recovery limits
- Estimated Value E
- Analyte detected below quantitation limits ĵ
- ND Not Detected at the Reporting Limit

Laboratory Results
Soil Samples
Sludge Pit Berm

Anachem, Inc.

Date: 19-Jan-10

CLIENT:

Wolf Eagle Environmental

Project:

Ruggiero

Location:

Client Sample:

Decatur

Sludge Pit Berm

Lab Order: 1001048

Lab ID: 1001048-02

Collection Date: 1/11/2010 3:30:00 PM

Matrix: SOLID

Analyses	Result	Limit	Qual Units	_	DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID				Batch:	R58678	Analyst: tp
1,1,1,2-Tetrachioroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1,1-Trichloroethane	NĐ	2.0	μg/Kg		1	1/15/2010
1,1,2,2-Tetrachloroethane	ND	2.0	µg/Кg		1	1/15/2010
1,1,2-Trichloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1-Dichloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1-Dichloroethene	ND	2.0	μg/Kg		1	1/15/2010
1,1-Dichloropropene	ND	2.0	µg/Кg		1	1/15/2010
1,2,3-Trichloropropane	ND	2.0	μg/Kg		1	1/15/2010
1,2,4-Trimethylbenzene	ND	2.0	μg/Kg		1	1/15/2010
1,2-Dibromoethane	ND	2.0	μ g /Kg		1	1/15/2010
1,2-Dichlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
1,2-Dichloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,2-Dichloropropane	ND	2.0	µg/Кg		1	1/15/2010
1,3,5-Trimethylbenzene	ND	2.0	μg/Kg		1	1/15/2010
1,3-Dichlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
1,3-Dichloropropane	ND	2.0	μ g/ Kg		1	1/15/2010
1,4-Dichlorobenzene	ND	2.0	µg/Kg		1	1/15/2010
2,2-Dichloropropane	ND	2.0	μg/Kg		1	1/15/2010
2-Bulanone	ND	20	μg/Kg		1	1/15/2010
2-Chlorotoluene	ND	2.0	μg/Kg		1	1/15/2010
4-Chlorotoluene	ND	2.0	μg/Kg		1	1/15/2010
4-Isopropyltoluene	ND	2.0	μg/Kg		1	1/15/2010
Acetone	ND	20	μg/Kg		1	1/15/2010
Benzene	ND	2.0	μg/Kg		1	1/15/2010
Bromobenzene	ND	2.0	μg/Kg		1	1/15/2010
Bromochloromethane	ND	2.0	μg/Kg		1	1/15/2010
Bromodichloromelhane	ND	2.0	μg/Kg		1	1/15/2010
Bromoform	ND	2.0	μg/Kg		1	1/15/2010
Bromomelhane	ND	10	μg/Kg		1	1/15/2010
Carbon disulfide	ND	2.0	μg/Kg		1	1/15/2010
Carbon tetrachloride	ND	2.0	μg/Kg		1	1/15/2010
Chlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
Chloroethane	ND	10	μg/Kg		1	1/15/2010
Chloroform	ND	2.0	μg/Kg		1	1/15/2010
Chloromethane	ND	10	μg/Kg		1	1/15/2010
cis-1,2-Dichloroethene	ND	2.0	μg/Kg		1	1/15/2010
cis-1,3-Dichloropropene	ND	2.0	μg/Kg		1	1/15/2010
Dibromochloromethane	ND	2.0	μg/Kg		1	1/15/2010
Dibromomethane	ND	2.0	μg/Kg		1	1/15/2010



- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Included on NELAC Scope of Accreditation N
- S Spike Recovery outside accepted recovery limits
- Estimated Value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Anachem, Inc.

Date: 19-Jan-10

CLIENT:

Wolf Eagle Environmental

Project:

Ruggiero

Location:

Client Sample:

Decatur

Sludge Pit Berm

Lab Order: 1001048

Lab ID: 1001048-02

Collection Date: 1/11/2010 3:30:00 PM

Matrix: SOLID

Analyses	Result	Limit	Qual U	Jnits		DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID		_		-	Batch:	R58678	Analyst: tp
Ethylbenzene	ND	2.0	μ	g/Kg		1	1/15/2010
Isopropylbenzene	ND	2.0	μ	g/Kg		1	1/15/2010
m,p-Xylene	ND	4.0	μ	g/Kg		1	1/15/2010
Methylene chloride	ND	10	μ	g/Kg		1	1/15/2010
n-Butylbenzene	ND	2.0	μ	ig/Kg		1	1/15/2010
n-Propylbenzene	ND	2.0	μ	ıg/Kg		1	1/15/2010
o-Xylene	ND	2.0	μ	ıg/Kg		1	1/15/2010
sec-Butylbenzene	ND	2.0	μ	ıg/Kg		1	1/15/2010
Styrene	ND	2.0	μ	ıg/Kg		1	1/15/2010
tert-Butylbenzene	ND	2.0	μ	ıg/Kg		1	1/15/2010
Telrachioroethene	ND	2.0	μ	ıg/Kg		1	1/15/2010
Toluene	ND	2.0	μ	ıg/Kg		1	1/15/2010
trans-1,2-Dichloroethene	ND	2.0	μ	ıg/Kg		1	1/15/2010
trans-1,3-Dichloropropene	ND	2.0		ıg/Kg		1	1/15/2010
Trichloroethene	ND	2.0	μ	ıg/Kg		1	1/15/2010
Vinyl chloride	ND	2.0	μ	ıg/Kg		1	1/15/2010



В



- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Ν Not Included on NELAC Scope of Accreditation
- Spike Recovery outside accepted recovery limits
- Ε Estimated Value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Laboratory Results
Soil Samples
Condensate Spill

Anachem, Inc.

nelap

Date: 19-Jan-10

CLIENT:

Wolf Eagle Environmental

Project:

Ruggiero

Location:

Decatur

giero

Client Sample:

Condensate Spill

Lab Order: 1001048

Lab ID: 1001048-03

Collection Date: 1/11/2010 3:51:00 PM

Matrix: SOLID

Analyses	Result	Limit	Qual Units		DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID				Batch:	R58678	Analyst: tp
1,1,1,2-Tetrachloroethane	NĐ	2.0	μg/Kg		1	1/15/2010
1,1,1-Trichloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1,2,2-Tetrachloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1,2-Trichloroethane	ND	2.0	μg/Kg		1	1/15/2010
1,1-Dichloroethane	ND	2.0	µg/Кg		1	1/15/2010
1,1-Dichloroethene	ND	2.0	μg/Kg		1	1/15/2010
1,1-Dichloropropene	ND	2.0	μg/Kg		1	1/15/2010
1,2,3-Trichloropropane	ND	2.0	μ g/ Kg		1	1/15/2010
1,2,4-Trimethylbenzene	140	2.0	μg/Kg		1	1/15/2010
1,2-Dibromoethane	ND	2.0	μg/Kg		1	1/15/2010
1,2-Dichlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
1,2-Dichloroethane	ND	2.0	µg/Kg		1	1/15/2010
1,2-Dichloropropane	ND	2.0	µg/Kg		1	1/15/2010
1,3,5-Trimethylbenzene	81	2.0	μg/Kg		1	1/15/2010
1,3-Dichlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
1,3-Dichloropropane	ND	2.0	μg/Kg		1	1/15/2010
1,4-Dichlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
2,2-Dichloropropane	ND	2.0	μg/Kg		1	1/15/2010
2-Butanone	ND	20	μg/Kg		1	1/15/2010
2-Chlorotoluene	ND	2.0	μg/Kg		1	1/15/2010
4-Chlorotoluene	ND	2.0	μg/Kg		1	1/15/2010
4-Isopropyltoluene	4.0	2.0	µg/Kg		1	1/15/2010
Acetone	ND	20	μg/Kg		1	1/15/2010
Benzene	20	2.0	μg/Kg		1	1/15/2010
Bromobenzene	ND	2.0	μg/Kg		1	1/15/2010
Bromochloromethane	ND	2.0	μg/Kg		1	1/15/2010
Bromodichloromethane	ND	2.0	μ g/ Kg		1	1/15/2010
Bromoform	ND	2.0	μg/Kg		1	1/15/2010
Bromomethane	ND	10	μg/Kg		1	1/15/2010
Carbon disulfide	ND	2.0	µg/Кg		1	1/15/2010
Carbon tetrachloride	ND	2.0	μ g/ Kg		1	1/15/2010
Chlorobenzene	ND	2.0	μg/Kg		1	1/15/2010
Chloroethane	ND	10	μg/Kg		1	1/15/2010
Chloroform	ND	2.0	μg/Kg		1	1/15/2010
Chloromethane	ND	10	μg/Kg		1	1/15/2010
cis-1,2-Dichloroethene	ND	2.0	μg/Kg		1	1/15/2010
cis-1,3-Dichloropropene	ND	2.0	µg/Kg		1	1/15/2010
Dibromochloromethane	ND	2.0	μg/Kg		1	1/15/2010
Dibromomethane	ND	2.0	μg/Kg		1	1/15/2010



- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- N Not Included on NELAC Scope of Accreditation
- S Spike Recovery outside accepted recovery limits
- E Estimated Value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Anachem, Inc.

Client Sample:

nelap

Date: 19-Jan-10

CLIENT: Wolf Eagle Environmental

Condensate Spill

Project: Ruggiero

Location: Decatur

Lab Order: 1001048 Lab ID: 1001048-03

Collection Date: 1/11/2010 3:51:00 PM

Matrix: SOLID

Analyses	Result	Limit	Qual	Units		DF	Date Analyzed
VOLATILES BY EPA 8260 - SOLID					Balch:	R58678	Analyst: tp
Ethylbenzene	16	2.0		μg/Kg		1	1/15/2010
Isopropylbenzene	4.2	2.0		μg/Kg		1	1/15/2010
m,p-Xylene	290	4.0		µg/Kg		1	1/15/2010
Methylene chloride	NĐ	10		μg/Kg		1	1/15/2010
n-Butylbenzene	7.0	2.0		µg/Kg		1	1/15/2010
n-Propylbenzene	7.8	2.0		μg/Kg		1	1/15/2010
o-Xylene	75	2.0		µg/Kg		1	1/15/2010
sec-Butylbenzene	2.1	2.0		µg/Kg		1	1/15/2010
Styrene	ND	2.0		µg/Kg		1	1/15/2010
tert-Butylbenzene	ND	2.0		μ g/ Kg		1	1/15/2010
Tetrachloroethene	ND	2.0		μg/Kg		1	1/15/2010
Toluene	160	2.0		μg/Kg		1	1/15/2010
trans-1,2-Dichloroethene	ND	2.0		μg/Kg		1	1/15/2010
trans-1,3-Dichloropropene	ND	2.0		μg/Kg		1	1/15/2010
Trichloroethene	ND	2.0		µg/Kg		1	1/15/2010
Vinyl chloride	ND	2.0		µg/Kg		1	1/15/2010





- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- N Not Included on NELAC Scope of Accreditation
- S Spike Recovery outside accepted recovery limits
- E Estimated Value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

Laboratory Results
Soil Sample
QA/QC Blanks

Date: 19-Jan-10

Wolf Eagle Environmental

Work Order: CLIENT: 1001048

Project:

Ruggiero

nelap

ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

Sample ID MBLK	SampType: MBLK	Batch ID: R58678	78 Units: µg/Kg	Prep Date:	RunNo: 58678
Test Name: Volatiles by EPA 8260 - Solid	4 8260 - Solid			Analysis Dale: 1/15/2010	SeqNo: 630808
Analyle	Result	PQL SPK v	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPOLimit Qual
1,1,1,2-Tetrachloroelhane	No	2.0			

Analyte	Result	PQL
1,1,1,2-Tetrachloroethane	N .	2.0
1,1,1-Trichloroethane	ND	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,1,2-Trichloroethane	ND	2.0
1,1-Dichloroethane	Ŋ	2.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloropropene	N	2.0
1,2,3-Trichloropropane	N	2.0
1,2,4-Trimelhylbenzene	ND	2.0
1,2-Dibromoethane	N	2.0
1,2-Dichlorobenzene	N	2.0
1,2-Dichloroethane	N	2.0
1,2-Dichloropropane	N	2.0
1,3,5-Trimethylbenzene	P	2.0
1,3-Dichlorobenzene	Š	2.0
1,3-Dlchloropropane	N	2.0
1,4-Dichlorobenzene	ND	2.0
2,2-Dichloropropane	N _O	2.0
2-Bulanone	ND	20
2-Chiorotoluene	NO	2.0
4-Chlorotoluene	ND	2.0
4-Isopropyltoluene	N	2.0
Acelone	N	20
Benzene	N	2.0
Bromobenzene	R	2.0
Bromochloromethane	N	2.0
Bromodichloromethane	8	2.0
Bromoform	ND	2.0

Qualifiers:

Ŋ

Estimated Value

Not Included on NELAC Scope of Accreditation

Spike Recovery outside accepted recovery limits

Not Detected at the Reporting Limit Holding times for preparation or analysis exceeded

R Analyte detected below quantitation limits

RPD outside accepted recovery limits

Work Order: 1001048

Project: Ruggiero



ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

Qual

Sample ID MBLK	SampType: MBLK	Balch II	Batch ID: R58678	Units: µg/Kg		Prep Dale:	e:		RunNo: 58678
Test Name: Volatiles by EPA 8260 - Solid	260 - Solid					Analysis Da	Analysis Date: 1/15/2010	010	SeqNo: 630808
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit
Bromomelhane	ND	10							
Carbon disuffide	ND	2,0							
Carbon tetrachloride	ND	2.0							
Chlorobenzene	ND	2.0							
Chloroelhane	ND	10							
Chloroform	ND	2.0							
Chloromethane	ND	10							
cis-1,2-Dichloroethene	ND	2.0							
cis-1,3-Dichloropropene	ND	2.0							
Dibromochloromethane	ND	2.0							
Dibromomethane	ND	2.0							
Ethylbenzene	ND	2.0							
Isopropylbenzene	ND	2.0							
m,p-Xylene	ND	4.0							
Methylene chloride	ND	10							
n-Butylbenzene	ND	2.0							
n-Propylbenzene	ND	2.0							
o-Xylene	ND	2.0							
sec-Butylbenzene	ND	2.0							
Styrene	ND	2.0							
tert-Butylbenzene	ND	2.0							
Telrachloroelhene	N	2.0							
Toluene	ND	2.0							
Irans-1,2-Dichloroethene	N	2.0							
lrans-1,3-Dichloropropene	NO	2.0							
Trichloroethene	ND	2.0							
Vinyl chloride	ND	2.0							



Estimated Value

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Qualifiers:

Spike Recovery outside accepted recovery limits

Not Included on NELAC Scope of Accreditation

Ŋ H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

[×] RPD outside accepted recovery limits Analyte detected below quantitation limits

Project: Work Order: 1001048

Ruggiero

nelap Gerification No. Titut794179

ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

Sample ID LCS	SampType: LCS	Batch II	Batch ID: R58678	Units: µg/Kg		Prep Date:	Ü		RunNo: 58678	78	
	260 - Solid				,	Analysis Date:	e: 1/15/2010	10	SeqNo: 630805	805	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimil	HighLlmit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.60	2.0	20	0	108	61.2	148	0	0		
1,2-Dichlorobenzene	20.35	2.0	20	0	102	77.3	115	0	. 0		
1,2-Dichloropropane	20.79	2.0	20	0	104	75.1	111	0	0		
1,3,5-Trimelhylbenzene	21,42	2.0	20	0	107	76.6	112	0	. 0		
1,3-Dichloropropane	21.04	2.0	20	0	105	81.6	113	0			
1,4-Dichlorobenzene	19.98	2.0	20	0	99.9	75.8	114	0	. 0		
Acetone	22.43	20	20	0	112	56.4	195	0			
Benzene	20.66	2.0	20	0	103	74.6	111	0	. 0		
Bromobenzene	20.90	2.0	20	0	104	77.8	116	. 0			
Bromochloromethane	20.89	2.0	20	0	2	79	117	. 0			
Carbon tetrachloride	20.98	2.0	20	0	105	54.1	136	0			
Dibromochloromethane	21.03	2.0	20	0	105	80.2	120	0			
Ethylbenzene	21.12	2.0	20	0	106	76.5	114		o c		
n-Bulylbenzene	21.83	2.0	20	0	109	73.4	111	0			
o-Xylene	21.37	2.0	20	0	107	77	115	0			
sec-Bulylbenzene	21.49	2.0	20	0	107	75.5	109	0	o C		
Tetrachloroethene	20,48	2.0	20	0	102	69.2	118	0	0		
Toluene	21.05	2.0	20	0	105	73.3	110	0	0		
trans-1,2-Dichloroethene	20.98	2.0	20	0	105	59.5	133	0	. 0		
trans-1,3-Dichloropropene	21.84	2.0	20	0	109	75.3	124	C			
Sample ID LCSD	SampType: LCSD	Batch ID:	D: R58678	Units: µg/Kg		Prep Date:	le:		RunNo: 58678	678	
	8260 - Solid					Analysis Dale:	le: 1/15/2010	010	SeqNo: 630807	0807	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLlmit	HighLimit	RPD Ref Val	%RPO	RPDLimil	Qual
1.1-Dichloroethene	21.47	2.0	20	0	107	61.2	148	21.6	0.604	23.3	
1.2-Dichlorobenzene	20.94	2.0	20	0	105	77.3	115	20,35	2.86	13.7	
1.2-Dichloropropane	20.86	2.0	20	0	104	75.1	111	20.79	0.336	12.8	
1,3,5-Trimethylbenzene	21,95	2.0	20	0	110	76.6	112	21.42	2.44	14.9	
1,3-Dichloropropane	21.63	2,0	20	0	108	81.6	113	21.04	2.77	12.6	
Qualifiers: E Estimated Value	Value		H Holdi	Holding times for preparation or analysis exceeded	n or analysi	s exceeded	ų	Analyte detected below quantitation limits	below quantitati	on limits	
Not includ	Not Included on NELAC Scope of Accreditation	ation	ND Not D	Not Delected at the Reporting Limit	g Limit		R	RPD outside accepted recovery limits	pted recovery lii		Page 3 of 12
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Spike Recovery outside accepted recovery limits Not included on NELAC Scope of Accreditation

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Project: Work Order: 1001048

Ruggiero

nelap Certification No. T101704199

ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

	Qualifiers: E Estimated Value	Bromochloromethane 16.20	Bromobenzene 21.75	Benzene 21.59		1,4-Dichlorobenzene 21.38	1,3-Dichioropropane 15.25	1,3,5-Trimelhylbenzene 26.90	1,2-Dichloropropane 19.68	1,2-Dichlorobenzene 20.26	1,1-Dichloroelhene 23.28	Analyte Result	Test Name: Volatiles by EPA 8260 - Solid	Sample ID 1001031-19AMS SampType: MS	trans-1,3-Dichloropropene 21.93	trans-1,2-Dichloroethene 21.18	Toluene 20,90	Tetrachloroethene 20.53	sec-Bulylbenzene 21.76		n-Bulylbenzene 22.29	Ethylbenzene 21.87	Dibromochloromethane 21.10	Carbon telrachloride 20.95	Bromochloromethane 21.29	Bromobenzene 21.40	Benzene 20.42	Acetone 25.55	1,4-Dichlorobenzene 20.62	Analyte Result	Tes! Name: Volatiles by EPA 8260 - Solld	Sample ID LCSD SampType: LCSD
	1	2.0	2.0	2.0	20	2.0	2.0	2.0	2.0	2.0	2.0	PQL		Batch IC	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	20	2.0	PQL		Batch ID
ND Not D	H Holdi	20	20	20	20	20	20	20	20	20	20	SPK value		Batch ID: R58678	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	SPK value		Batch ID: R58678
Not Detected at the Reporting Limit	Holding times for preparation or analysis exceed	0	0	0	0	0	0	0	0	0	0	SPK Ref Val		Units: µg/Kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SPK Ref Val		Units: pg/Kg
ig Limit	n or analys:	81	109	108	73.2	107	76.2	134	98.4	101	116	%REC			110	106	<u>1</u> 2	103	109	111	111	109	106	105	106	107	102	128	103	%REC	_	
	is exceeded	60	60	60	60	60	60	60	60	60	60	LowLimit	Analysis Date:	Prep Date:	75.3	59.5	73.3	69.2	75.5	77	73.4	76.5	80.2	54.1	79	77.8	74.6	56.4	75.8	LowLimit	Analysis Date:	Prep Date:
×		140	140	140	140	140	140	140	140	140	140	HighLlmit	ite: 1/15/2010	le:	124	133	110	118	109	115	111	114	120	136	117	116	111	195	114	HighLimit	te: 1/15/2010	Œ.
RPD outside accepted recovery limits	Analyte detected below quantitation limits	0	0	0	0	0	0	. 0	0	0	0	RPD Ref Val	210		21.84	20.98	21.05	20.48	21.49	21.37	21.83	21.12	21.03	20.98	20.89	20.9	20.66	22.43	19.98	HighLimit RPD Ref Val	10	
pted recovery lii	below quantitation	0	0	0	0	0	0	, ,		. 0	0	%RPD	SeqNo: 630803	RunNo: 58678	0.411	0.949	0.715	0.244	1.25	3.67	2.09	3.49	0.332	0.143	1.90	2.36	1.17	13.0	3.15	%RPD	SeqNo: 630807	RunNo: 58678
	on limits											RPDLImit)803	578	11.2	31.5	13.6	17.1	16.7	13.1	17.2	14.3	13.1	15.2	13.2	14.6	12.9	30.9	14.8	RPDLimil	807	78
Page 4 of 12												Qual									C.)								Qual		



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Spike Recovery outside accepted recovery limits Not Included on NELAC Scope of Accreditation

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Project: Work Order: 1001048

Ruggiero

nelap)
Cartification No. T101701198

ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

Sample ID 1001031-19AMS	SampType: MS	Balch II	Balch ID: R58678	Units: µg/Kg		Prep Date:	e.		RunNo: 58678	78	
	60 - Solid					Analysis Date:	e: 1/15/2010	10	SeqNo: 630803	903	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLîmit	RPD Ref Val	%RPD	RPDLimil	Qual
Carbon tetrachloride	23.29	2.0	20	0	116	60	140	0	0		
Dibromochloromethane	16.15	2.0	20	0	80.8	60	140	0	0		
Ethylbenzene	24.44	2.0	20	0	122	60	140	0	0		
n-Butylbenzene	29.13	2.0	20	0	146	60	140	0	0		S
o-Xylene	23.74	2.0	20	0	119	60	140	0	0		
sec-Butylbenzene	28.71	2.0	20	0	144	60	140	0	0		ဟ
Telrachioroethene	23.91	2.0	20	0	120	60	140	0	0		
Toluene	22.34	2.0	20	0	112	60	140	0	0		
trans-1,2-Dichloroethene	21.66	2.0	20	0	109	60	140	0	0		
trans-1,3-Dichloropropene	15.25	2.0	20	0	76.2	60	140	0	0		
Sample ID 1001031-19AMSD	SampType: MSD	Batch II	Batch ID: R58678	Units: µg/Kg		Prep Dale:	e:		RunNo: 58678	78	
Test Name: Volatiles by EPA 8260 - Solid	160 - Solid					Analysis Date:	le: 1/15/2010	10	SeqNo: 630804	804	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22,35	2.0	20	0	112	60	140	23.28	4.08	25	
1,2-Dichlorobenzene	19.37	2,0	20	0	96.8	60	140	20.26	4.49	25	
1,2-Dichloropropane	18.84	2.0	20	0	94.2	60	140	19.68	4.36	25	
1,3,5-Trimethylbenzene	25.86	2.0	20	0	129	60	140	26.9	3.94	25	
1,3-Dichloropropane	14.42	2.0	20	0	72.1	60	140	15.25	5.59	25	
1,4-Dichlorobenzene	20.26	2.0	20	0	101	60	140	21.38	5.38	25	
Acelone	ND	20	20	0	67.6	60	140	14.65	0	25	
Benzene	20.76	2.0	20	0	<u>1</u>	60	140	21.59	3.92	25	
Bromobenzene	20.79	2.0	20	0	104	60	140	21.75	4.51	25	
Bromochloromethane	15.51	2.0	20	0	77.6	60	140	16.2	4.35	25	
Carbon tetrachloride	22.69	2.0	20	0	113	60	140	23.29	2.61	25	
Dibromochloromelhane	15,16	2.0	20	0	75.8	60	140	16.15	6.32	25	
Ethylbenzene	23.18	2.0	20	0	116	60	140	24.44	5.29	25	
n-Butylbenzene	27.77	2.0	20	0	139	60	140	29.13	4.78	25	
o-Xylene	22.02	2.0	20	0	110	60	140	23.74	7.52	25	



Z m Estimated Value

Qualifiers:

Spike Recovery outside accepted recovery limits Not Included on NELAC Scope of Accreditation

> A Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

> > Analyte detected below quantitation limits

RPD outside accepted recovery limits Page 5 of 12

CLIENT: Work Order: 1001048 Wolf Eagle Environmental

Project:

Ruggiero

nelap Certification No. Titul704198

ANALYTICAL QC SUMMARY REPORT

BatchID: R58678

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Sample ID 1001031-19AMSD SampType: MSD	/pe: MSD	Balch IC	Balch ID: R58678	Units: µg/Kg		Prep Date:	Ü		RunNo: 58678	78	
Test Name: Volatiles by EPA 8260 - Solid						Analysis Dale:	e: 1/15/2010	10	SeqNo: 630804	804	
Analyte	Result	PQ	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HìghLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
sec-Bulylbenzene	27.42	2.0	20	0	137	60	140	28.71	4.60	25	
Telrachloroethene	22.80	2.0	20	0	114	60	140	23.91	4.75	25	
Toluene	21.39	2.0	20	0	107	60	140	22.34	4.34	25	
Irans-1.2-Dichloroethene	21.07	2.0	20	0	105	60	140	21.86	3.68	25	
trans-1,3-Dichloropropene	15.09	2.0	20	0	75.5	60	140	15.25	1.05	25	



SZM

Spike Recovery outside accepted recovery limits

Estimated Value

Not included on NELAC Scape of Accreditation

ND H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

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RPD outside accepted recovery limits Analyte detected below quantitation limits

Project: Work Order: 1001048

Ruggiero



ANALYTICAL QC SUMMARY REPORT

BatchID: R58681

Sample ID MBLK	SampType: MBLK	Batch ID: R58681	Units: µg/Kg	Prep Date:	RunNo: 58681
Test Name: Volatiles by EPA 8260 - Solid	1260 - Solid			Analysis Dale: 1/18/2010	SeqNo: 630844
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLlmit HighLimit RPD Ref Val	%RPD RPDLimit Qual
1,1,1,2-Telrachloroelhane	ON	2.0			
1,1,1-Trichloroethane	ND	2.0			
1,1,2,2-Tetrachloroethane	ND	20			
1,1,2-Trichloroethane	ND	2.0			
1,1-Dichloroethane	N	2.0			
1,1-Dichloroethene	ND	2.0			
1,1-Dichloropropene	ND	2.0			
1,2,3-Trichloropropane	ND	2.0			
1,2,4-Trimethylbenzene	ND	2.0			
1,2-Dibromoethane	dN	2.0			
1,2-Dichlorobenzene	ND	2.0			
1,2-Dichloroethane	ND	2.0			
1,2-Dichloropropane	N	2.0			
1,3,5-Trimelhylbenzene	ND	2.0			
1,3-Dichlorobenzene	S	2.0			
1,3-Dichloropropane	ND	2.0			
1,4-Dichlorobenzene	ND	2.0			
2,2-Dichloropropane	N	2.0			
2-Bulanone	N _D	20			
2-Chlorololuene	N	2.0			
4-Chiorololuene	ND	2.0			
4-Isopropyltoluene	ND	2.0			
Acetone	ND	20			
Benzene	ND	2.0			
Bromobenzene	ND	2.0			
Bromochloromethane	N	2.0			
Bromodichloromethane	ND	2.0			
Bromoform	ND	2.0			
Bromomelhane	ND	10			
Carbon disulfide	ND	2.0			



Estimated Value

Qualifiers:

Spike Recovery outside accepted recovery limits

R

Not included on NELAC Scope of Accreditation

ND Not Detected at the Reporting Limit Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits Analyte detected below quantitation limits

Work Order: 1001048



ANALYTICAL QC SUMMARY REPORT

BatchID: R58681

Project: Ruggiero				Cerdification No. T104704198	a	Ба	BatchlD: k	K58681	
Sample ID MBLK	SampType: MBLK	Batch II	Batch ID: R58681	Units: µg/Kg		Prep Date:		RunNo: 58681	
Test Name: Volatiles by EPA 8260 - Solid	8260 - Solid					Analysis Date: 1/18/2010	J	SeqNo: 630844	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val	(PD Ref Val	%RPD RPDLimit	Qual
Carbon tetrachloride	ND	2.0							
Chlorobenzene	ND	2.0							
Chloroethane	ND	10							
Chloroform	ND	2.0							
Chloromethane	ND	10							
cis-1,2-Dichloroethene	N	2.0							
cis-1,3-Dichloropropene	R	2.0							
Dibromochloromethane	ND	2.0							
Dibromomethane	ND	2.0							
Ethylbenzene	ND	2.0							
isopropyibenzene	ND.	2.0							
m,p-Xylene	ND	4.0							
Methylene chloride	ND	10							
n-Butylbenzene	ND	2.0							
n-Propylbenzene	ND	2.0							
o-Xylene	ND	2.0							
sec-Butylbenzene	ND	2.0							
Styrene	N	2.0							
lert-Bulylbenzene	N _D	2.0							
Tetrachloroethene	ND	2.0							
Toluene	ND	2.0							
lrans-1,2-Dichloroethene	N D	2.0							
trans-1,3-Dichloropropene	ND	2.0							
Trichloroelhene	ND	2.0							
Vlnyl chloride	ND	2.0							

Sample ID LCS	SampType: LCS	Balch ID: R58681	Units: µg/Kg	Prep Date:	RunNo: 58681
Test Name: Volatiles by EPA 8260 - Solid	A 8260 - Solid			Analysis Date: 1/18/2010	SeqNo: 630841
Analyte	Result	PQL SPK value	SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Vai	%RPD RPDLimil



Estimated Value

Qualifiers:

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Not Included on NELAC Scope of Accreditation

Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits

Work Order: 1001048

Ruggiero

Project:

nelap)

ANALYTICAL QC SUMMARY REPORT

BatchID: R58681

Sample ID LCS	SampType: LCS	Batch II	Batch ID: R58681	Units: µg/Kg		Prep Date:	e:		RunNo: 58681	581	
Test Name: Volatiles by EPA 8260 - Solid	8260 - Solid					Analysis Dale:	le: 1/18/2010	110	SeqNo: 630841	0841	
Analyle	Result	PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RP0	RPDLimit	Qual
1,1-Dichloroelhene	17.98	2.0	20	0	89.9	61.2	148	0	0		
1,2-Dichlorobenzene	19.25	2.0	20	0	96.2	77.3	115	0	0		
1,2-Dichioropropane	17.76	2.0	20	0	88.8	75.1	111	0	0		
1,3,5-Trime(hylbenzene	18.87	2.0	20	0	94.4	76.6	112	0	0		
1,3-Dichloropropane	16,77	2.0	20	0	93.8	81.6	113	0	0		
1,4-Dichlorobenzene	19.00	2.0	20	0	95	75.B	114	0	0		
Acelone	31.26	20	20	0	156	56.4	195	0	0		
Benzene	18.03	2.0	20	0	90.2	74.6	111	0	0		
Bromobenzene	19.32	2.0	20	0	96.6	77.8	116	0	0		
Bromochloromethane	18.05	2.0	20	0	90.2	79	117	0	0		
Carbon letrachloride	18.66	2.0	20	0	93.3	54.1	136	0	0		
Dibromochloromelhane	20.22	2.0	20	0	101	80.2	120	0	0		
Ethylbenzene	19.57	2.0	20	0	97.8	76.5	114	0	0		
n-Butylbenzene	19.17	2.0	20	0	95.8	73.4	111	0	0		
o-Xylene	19.76	2.0	20	0	98.8	77	115	0	0		
sec-Bulylbenzene	18,82	2.0	20	0	94.1	75.5	109	0	0		
Tetrachloroethene	19.82	2.0	20	0	99.1	69.2	118	0	0		
Toluene	19.21	2.0	20	0	96	73.3	110	0	0		
trans-1,2-Dichloroethene	15.01	2.0	20	0	75	59.5	133	0	0		
trans-1,3-Dichioropropene	19.26	2.0	20	0	96.3	75.3	124	0			
Sample ID LCSD	SampType: LCSD	Balch ID:): R58681	Units: µg/Kg		Prep Date:	ite:		RunNo: 58681	681	
Test Name: Volatiles by EPA 8260 - Solid	8260 - Solid					Analysis Dale:	ile: 1/18/2010	010	SeqNo: 630843	0843	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimil	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.69	2.0	20	0	88.4	61.2	148	17.98	1.63	23.3	
1,2-Dichlorobenzene	20.27	2.0	20	0	101	77.3	115	19.25	5.16	13.7	
1,2-Dichloropropane	18.27	2.0	20	0	91.4	75.1	111	17.76	2.83	12.8	
1,3,5-Trimethylbenzene	19.70	2.0	20	0	98.5	76.6	112	18.87	4.30	14.9	
1,3-Dichloropropane	19.08	2.0	20	0	95.4	81.6	113	18.77	1.64	12.6	
Qualifiers: E Estimated Value	Value		H Holdi	Holding times for preparation or analysis exceeded	n or analysi	s exceeded	L,	Analyte detected below quantitation limits	below quantitati	on limits	
Not Includ	Not Included on NELAC Scope of Accreditation	tion	ND Not D	Not Detected at the Reporting Limit	g Limit		×	RPD outside accepted recovery limits	pted recovery li		Page 9 of 12



Spike Recovery outside accepted recovery limits Not Included on NELAC Scope of Accreditation

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RUGGIERO



RUGGIERO



Yellow: Soil Monitoring Location Red: Air Monitoring Location

,

Environmental Study Fugitive Air Emissions Sampling Impacted Soil Sampling

Nic and Mrs. Timothy Ruge ero 415 Star Shell Road Decatur, Texas 70234





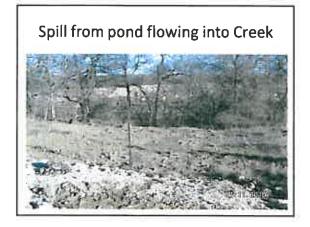


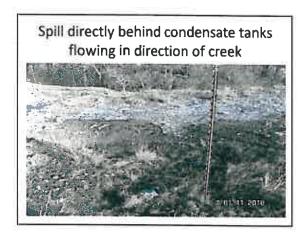






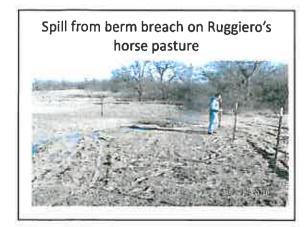














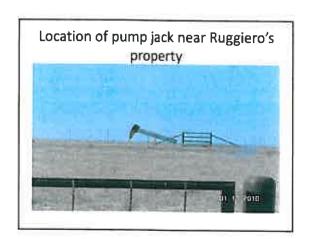












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