Drewelow Remediation Equipment, Inc.
A CERTIFIED SMALL BUSINESS ENTERPRISE
1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	5-7-09
Time: Arrived, Departed	0745 - 0945
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	4
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; TESTED HIGH WATER ALARM. IT IS WORKING PROPERLY.
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	CLOSED RELIEF VALVE and well OIA to 20% open ALSO, CLEANED UNDERNEATH HEAT X.

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	1500	0745
Last visit hour meter reading		
Run hours		
Water holding tank gallons	175 gal.	
Water Collected from CV.	~~0~~ gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	3.3	0	0
PID reading 2	5.1	0	0
PID reading 3	3.3	0	0
PID average of the 3 readings	3.9	0	0

VES Arrival and departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (MAX 10 NOTCHES)	
Recirculation Valve	open/closed (%)		OPEN 50%	
C1 influent	Gas concentration in PPM		48.9	
C1 influent	Temperature in F	120F	110°F	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	860 cfm	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			38	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm	717	
C1 influent	Pressure in IN. W.C.		38	
C2 influent	Gas concentration in PPM		3.9	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	50 → 20%	1.6	614	12.6	82.4
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	2.1	730	13.8	90.6
SVE-05A	100	1.9	16.6	15.4	84.5
SVE-06A	100	1.8	30	18.4	78.8
SVE-07A	100	1.8	9.9	15	90.2

Notes:

Vacuum in w c — measured using Series 475 MARK III Digital Manometer, Dwyer®

concentration in ppmv hexane collected in tedlar bags using a portable pump — measured using Environmental Instruments Detectinator™ PID

Flow in cfm — measured using VelociCalc® TSI® MODEL 8345

Temperature oF — measured using _____

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	38	26.3	14.2	2.9
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	5-14-09
Time: Arrived, Departed	1600-1730
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	4
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	RECIRC. VALVE @ 20% OPEN. NO WATER FROM ANY CARBON VESSELS. *USED SAME INSTRUMENT FROM LAST VISIT.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	1676	1600
Last visit hour meter reading		
Run hours		
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF	C3 EFF.
PID reading 1	4.1	1.2	0
PID reading 2	6.6	0.7	0
PID reading 3	4.1	0.7	0
PID average of the 3 readings	4.9	0.8	0

VES Arrival and departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	YES
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		20% OPEN	
C1 influent	Gas concentration in PPM		61.2	N
C1 influent	Temperature in F	120F	108	A
C1 influent	Flow rate in CFM using handheld veloci-cal instrument	750 scfm	885 cfm	
Instrumentation Run Observations				
Temperature in °F			103	
Pressure in IN.W.C			43	
Differential Pressure in IN.W.C			1.8	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		43	
C2 influent	Gas concentration in PPM		4.9	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	20	2	1065	10.2	81.4
SVE-02A	~~0~~				
SVE-03A	~~0~~				
SVE-04A	100	3	514	19.7	84.5
SVE-05A	100	3	29.1	25.2	84.2
SVE-06A	100	2.9	37.5	26.8	86.6
SVE-07A	100	3	20.8	22.6	86.1

Notes

Vacuum in w c — measured using MANOMETER

concentration in ppmv hexane collected in tedlar bags using a portable pump — measured using PID #4 580B

Flow in cfm — measured using TSI

Temperature oF — measured using TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	43	30	16.6	3.9
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.	~~43~~	N		
Vessel Serial No.			A	
PID calibrated to 50 ppmv Hexane	~~Hexane~~	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time		N		
Analysis			A	
date for sample collection				
Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	5-21-09
Time: Arrived, Departed	1815- 1945
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M ★	ADJUST SVE 1 FROM 20% OPEN TO 40%
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	WELL 5A SAMPLE PORT BROKE OFF IT LOOKS LIKE SOMEONE RAN INTO IT. I ALVED IT BACK ON TEMPORARILY.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	1846	1815
Last visit hour meter reading		
Run hours		
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 60 ppmv Hexane	C1 EFF	C2 EFF.	C3 EFF.
PID reading 1	52.9	2.0	0.7
PID reading 2	52.9	2.0	1.1
PID reading 3	52.9	2.0	0.7
PID average of the 3 readings / TEMP IN °F / USING Velocical TSI	52.9 / 95	2.0 / 90.3	0.8 / 90.4

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	YES
Wells	Online		SEE	BELOW
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	YES
Dilution Air	Valve open/closed (notches)		OPEN 100%	OPEN 100%
Recirculation Valve	open/closed (%)		OPEN 20%	OPEN 20%
C1 influent	Gas concentration in PPM		98	211.8
C1 influent	Temperature in F	120F	108	110
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	840 cfm	840 cfm
Instrumentation Run Observations				
Temperature in °F			106	108
Pressure in IN.W.C			44	44
Differential Pressure in IN.W.C			1.9	1.9
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		44	44
C2 influent	Tmeperature in F	F	93.7	95
C2 influent	Gas concentration in PPM		2.0	2.0
C3 influent	Tmeperature in F	F	90.5	90.3
C3 effluent	Gas concentration in PPM	3 ppm	0.8	0.8

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A ★	20% → 40%	1.9 → 2.8	1100 → OVR	8.7 → 11.5	88.6 → 81.4
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	3.5	OVR	20.4	79.5
SVE-05A	100	3.4	159.4	30.2	79.4
SVE-06A	100	3.4	176.4	29.6	74.2
SVE-07A	100	3.4	169.8	23.6	75.2

Notes

Vacuum in w.c. measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using PID 580B OVM

Flow in cfm measured using Velocical (TSI)

Temperature oF measured using Velocical (TSI)

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	44	30.3	16.6	3.8
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.	44	30	16.6	3.9
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	5-28-09
Time: Arrived, Departed	1415 - 1600
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES. MONTHLY VAPOR SAMPLES TAKEN
Parts needed	WELL #5 SAMPLE PORT.
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO VISIBLE SIGNS OF MOISTURE FROM ANY CV.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	2010	1415
Last visit hour meter reading	1846	1815
Run hours	164	
Water holding tank gallons	190 gal.	
Water Collected from CV.	~~0~~ gal.	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	2.9	10000+ (OR)	17.5	84.8
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	3.6	10000+ (OR)	25.3	87.5
SVE-05A	100	3.7	111.6	28.9	84.4
SVE-06A	100	3.7	127.4	35.7	78.6
SVE-07A	100	3.6	97.3	24.5	90.3

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Thermo Env. PID 580B OVM

Flow in cfm measured using VelociCalc. TSI

Temperature oF measured using VelociCalc. TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	43	29.7	16.1	3.7
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1530			1525
Analysis	TO-15 / TO-3			TO-15 / TO-3
Last date for sample collection	APR. 30, 2009			APR. 30, 2009
Vessel Serial No.	N/A			GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF	C2 EFF	C3 EFF.
PID reading 1	89.7	3.1	1.7
PID reading 2	91.1	2.6	1.7
PID reading 3	89.7	2.6	1.7
PID average of the 3 readings / TEMP.	90.1 / 98.1	2.7 / 96.2	1.7 / 93.1

VES Arrival and departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		900.1	
C1 influent	Temperature in F	120F	109	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	875	
Instrumentation Run Observations				
Temperature in °F			109	
Pressure in IN.W.C			43	
Differential Pressure in IN.W.C			1.8	
Calculated flow rate in scfm		750 scfm	742	
C1 influent	Pressure in IN. W.C.		43	
C2 influent	Gas concentration in PPM		90.1	
C3 effluent	Gas concentration in PPM	3 ppm	1.7	

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	6-4-09
Time: Arrived, Departed	1515-1630
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO ADJUSTMENTS MADE UPON ARRIVAL.
	NO MOISTURE (VISIBLE) OUT OF ANY CV.
	NO WATER IN KO. POT.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	2179	1515
Last visit hour meter reading	2010	1415
Run hours	169	
Water holding tank gallons	180 gal.	
Water Collected from CV.	~~0~~ gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	123.7	4	2.1
PID reading 2	125.0	3.3	1.8
PID reading 3	124.4	3.3	2.1
PID average of the 3 readings / TEMP °F	124.3 / 96.1	3.5 / 91.4	2 / 90.6

VES Arrival and departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		242.2	
C1 influent	Temperature in F	120F	107	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	855	
Instrumentation Run Observations				
Temperature in °F			101	
Pressure in IN.W.C			43	
Differential Pressure in IN.W.C			1.8	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		43	
C2 influent	Gas concentration in PPM		124.3	
C3 effluent	Gas concentration in PPM	3 ppm	2	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	2.8	10,000+(OVR)	18	80.8
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	3.8	6824	24.2	84.1
SVE-05A	100	3.7	15.7	25.4	83.5
SVE-06A	100	3.7	60.3	40.1	78.7
SVE-07A	100	3.7	31.1	25.9	89.3

Notes.

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Thermo. Env. PID 580B OVM

Flow in cfm measured using Veloc. Calc TSI

Temperature oF measured using Veloc. Calc TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	43	30	16.3	3.7
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	6-11-09
Time: Arrived, Departed	1630 - 1745
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO MOISTURE (VISIBLE) OUT OF ANY CV. NO WATER IN KO POT. NO ADJUSTMENTS MADE UPON ARRIVAL

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	2348	1630
Last visit hour meter reading	2179	1515
Run hours	169	
Water holding tank gallons	180 gal.	
Water Collected from CV.	~~0~~ gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	148.4	3.7	1.6
PID reading 2	145.1	3.7	1.6
PID reading 3	145.1	3.1	1.6
PID average of the 3 readings / TEMP.	146.2 / 94.3°F	3.5 / 91.1	1.6 / 89.8

VES Arrival and departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		238.4	
C1 influent	Temperature in F	120F	107	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	847	
Instrumentation Run Observations				
Temperature in °F			99	
Pressure in IN.W.C			[redacted] 44	
Differential Pressure in IN.W.C			1.8	
Calculated flow rate in scfm		750 scfm	749.7	
C1 influent	Pressure in IN. W.C.		44	
C2 influent	Gas concentration in PPM		146.2	
C3 effluent	Gas concentration in PPM	3 ppm	1.6	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	2.7	10,000+(OVR)	16.9	79.7
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	3.6	5942	24.7	81.6
SVE-05A	100	3.7	13.9	24.9	84
SVE-06A	100	3.6	69.2	38.9	73.9
SVE-07A	100	3.6	30.6	30.1	88.8

Notes:

Vacuum in w.c measured using DWYER MANOMETER

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Thermo Env. PID 580B OVM

Flow in cfm measured using Veloci Calc TSI

Temperature oF measured using VelociCalc TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	44	29.4	16.7	3.5
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.		N	A	
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time		N	A	
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America. Los Angeles, CA with the attached copy of the chain of custody

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1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	6-18-09
Time: Arrived, Departed	1515- 1730
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; INSTALL DEMISTING ELEMENTS
Parts needed	NO
Parts installed	DEMISTING ELEMENTS
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	[redacted] Effluent tedlar sample taken Used 1 tedlar.

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	21515	1515
Last visit hour meter reading	2348	1630
Run hours		
Water holding tank gallons	190 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	198	5.7	2.8
PID reading 2	202	5.7	2.2
PID reading 3	202	5.3	2.2
PID average of the 3 readings / TEMP. °F	200.6 / 100	5.5 / 98.2	2.4 / 97.1

VES Arrival and departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	[redacted]
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		Yes	
Dilution Air	Valve open/closed (notches)		open 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		269	[redacted]
C1 influent	Temperature in F	120F	108	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	885	
Instrumentation Run Observations				
Temperature in °F			102	
Pressure in IN.W.C			43	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		43	
C2 influent	Gas concentration in PPM		200.6	
C3 effluent	Gas concentration in PPM	3 ppm	2.4	-

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40%	3.5	9947	[redacted] 21.4	[redacted] 86.7
SVE-02A	0%				
SVE-03A	0%				
SVE-04A	100%	5	10,000+ (OVR)	33.8	90.4
SVE-05A	100%	4.8		39.2	88.7
SVE-06A	100%	5.0	72.3	48.9	79.5
SVE-07A	100%	4.7	41.1	32.5	92.7

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Envi. PID 580 B OVM

Flow in cfm measured using Veloci Cal TSI

Temperature oF measured using Veloci Cal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	43	29.7	15.6	3.2
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	6-25-09
Time: Arrived, Departed	1445-1630
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	MONTHLY VAPOR SAMPLES TAKEN
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	* Wells 2 and 3 closed upon departure.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	2682	1515
Last visit hour meter reading	2515	1445
Run hours	167	
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2. EFF	C3 EFF.
PID reading 1	242.3	5.8	2.6
PID reading 2	243	6.3	1.8
PID reading 3	243	5.8	1.8
PID average of the 3 readings /TEMP.	242.7 /98.3°F	6 /96.2°F	2.1 /95.7°F

VES Arrival and departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	YES
Wells	Online		1,4,5,6,7	ALL
Wells	Off Line		2,3	NONE
Dilution Air	Adding - yes or no		YES	YES
Dilution Air	Valve open/closed (notches)		OPEN 100%	OPEN 100%
Recirculation Valve	open/closed (%)		OPEN 20%	OPEN 20%
C1 influent	Gas concentration in PPM		299	
C1 influent	Temperature in F	120F	106	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	825	
Instrumentation Run Observations				
Temperature in °F			100	
Pressure in IN.W.C			43	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		43	
C2 influent	Gas concentration in PPM		242.7	
C3 effluent	Gas concentration in PPM	3 ppm	2.1	

N/A

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	4.0	OVR(10,000+)	22.1	85.7
SVE-02A ★	20	2.0	568	9.6	85.2
SVE-03A ★	20	2.1	OVR(10,000+)	12.1	86.6
SVE-04A	100	5.5	OVR(10,000+)	34.6	87.1
SVE-05A	100	5.2	56.7	45.2	85.2
SVE-06A	100	5.3	67.2	56	79.8
SVE-07A	100	5.3	48.4	50.8	86.8

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580 B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	43	29.2	16	3.6
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	7-2-09
Time: Arrived, Departed	1330 - 1500
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	Oil. Air filter #810475 (soon)
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	KO POT IS EMPTY ; NO ADJ. MADE

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	[redacted] 2949	1330
Last visit hour meter reading	2682	1515
Run hours	167	
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF	C3 EFF
PID reading 1	314	7.9	2.6
PID reading 2	321	7.6	2.6
PID reading 3	321	7.9	2.6
PID average of the 3 readings / TEMP	318.6 / 101.4	7.8 / 99.1	2.6 / 98.6

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		1,4,5,6,7	
Wells	Off Line		2,3	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		[redacted] 543	
C1 influent	Temperature in F	120F	110	
C1 influent	Flow rate in CFM using handheld veloci-cal instrument	750 scfm	865	
Instrumentation Run Observations				
Temperature in °F			112	
Pressure in IN.W.C			42	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		42	
C2 influent	Tmeperature in F	F	101.4	
C2 influent	Gas concentration in PPM		318.6	
C3 influent	Tmeperature in F	F	99.1	
C3 effluent	Gas concentration in PPM	3 ppm	2.6	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	4.4	10,000+(over)	25.4	94.3
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	6.2	10,000(over)	34.2	97.2
SVE-05A	100	6	48.7	41	95.5
SVE-06A	100	6.1	59	62.3	91.7
SVE-07A	100	6	52.1	31.4	98.6

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using ThermEnv PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	No			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	42	28.4	15.7	3.5
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	7-9-09
Time: Arrived, Departed	1445 - 1615
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	KO POT IS EMPTY; NO ADJUSTMENTS MADE

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	3018	1445
Last visit hour meter reading	2849	1330
Run hours	169	
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	326	16.8	2.9
PID reading 2	321	20.4	2.9
PID reading 3	325	19.2	2.9
PID average of the 3 readings / TEMP °F	323.3/101.5	18.8/96.2	2.9/95.3

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		1,4,5,6,7	
Wells	Off Line		2,3	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		369	
C1 influent	Temperature in F	120F	111	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	840	
Instrumentation Run Observations				
Temperature in °F			113	
Pressure in IN.W.C			42	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		42	
C2 influent	Tmeperature in F	F	101.5	
C2 influent	Gas concentration in PPM		323.3	
C3 influent	Tmeperature in F	F	96.2	
C3 effluent	Gas concentration in PPM	3 ppm	2.9	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	4.7	10,000+(OVR)	27.7	89.5
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	6.9	10,000+(OVR)	42.4	95.4
SVE-05A	100	6.6	243	50.9	90.4
SVE-06A	100	6.7	88	61	78.1
SVE-07A	100	6.7	52.2	37.2	98.3

Notes:

Vacuum in w.c measured using DWYER MANOMETER

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	42	27.9	15.3	3.6
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	7-16-09
Time: Arrived, Departed	1400 - 1600
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	KO POT EMPTY; UNIT WAS NOT SHUT OFF (per IRIS)
NEW C1 INF. TEMP GAUGE INSTALLED 7-2-09	IRIS WILL CONFIRM C3 EFF. ON 7-17-09 (w/ FID)
	PICS OF MANHOLES TAKEN AFTER TIGHTENING BOLTS

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	3186	1400
Last visit hour meter reading	3018	1445
Run hours	168	
Water holding tank gallons	180 gal.	
Water Collected from CV.	-0- gal.	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	5.4	10,000+(OVR)	32.1	91.5
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	8.1	10,000+(OVR)	46.7	99.4
SVE-05A	100	7.3	62.3	62	102.2
SVE-06A	100	7.3	50.9	77.5	80.3
SVE-07A	100	7.3	48.4	42.5	113.6

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41	27.3	15	3.2
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	330	99.7	3.3
PID reading 2	328	100.3	3.7
PID reading 3	328	100.3	3.3
PID average of the 3 readings / TEMP °F	329.6/102.3	100.1/98.5	3.4/98.2

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		1,4,5,6,7	
Wells	Off Line		2,3	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		100% OPEN	
Recirculation Valve	open/closed (%)		20% OPEN	
C1 influent	Gas concentration in PPM		341	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	840	
Instrumentation Run Observations				
Temperature in °F			109	
Pressure in IN.W.C			41	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		41	
C2 Influent	Tmeperature in F	F	102.3	
C2 Influent	Gas concentration in PPM		328.6	
C3 influent	Tmeperature in F	F	98.5	
C3 effluent	Gas concentration in PPM	3 ppm	3.4	

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	7-23-09
Time: Arrived, Departed	[redacted] 1100 - 1245
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	DIL. AIR FILTER
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	C3 EFF. PID READ 3.9. SYSTEM LEFT RUNNING UPON
	DEPARTURE PER IRIS PENDING LAB RESULTS.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	3351	1100
Last visit hour meter reading	3186	1400
Run hours	165	
Water holding tank gallons	180 gal.	
Water Collected from CV.	~~0~~ gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	415	142.4	3.8
PID reading 2	417	141	4
PID reading 3	416	142.4	4
PID average of the 3 readings / TEMP °F	416 / 98.4	141.9 / 96.2	3.9 / 97.9

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		1,4,5,6,7	
Wells	Off Line		2,3	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		436	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	815	
Instrumentation Run Observations				
Temperature in °F			111	
Pressure in IN.W.C			41	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		41	
C2 influent	Tmeperature in F	F	98.4	
C2 influent	Gas concentration in PPM		416	
C3 influent	Tmeperature in F	F	96.2	
C3 effluent	Gas concentration in PPM	3 ppm	3.9	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	6	10,000+(OVR)	17.1	91.4
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	9.2	10,000+(OVR)	44.2	101.9
SVE-05A	100	8.6	34.9	62.5	108.6
SVE-06A	100	8.6	96.4	89	84.7
SVE-07A	100	8.5	42.7	45.5	114.8

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using ThermEnv. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41	27.8	15.3	3.3
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.		N		
Vessel Serial No.			A	
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time		N		
Analysis				
Last date for sample collection			A	
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	7-30-09
Time: Arrived, Departed	1115-1315
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	MONTHLY VAPOR SAMPLE TAKEN (INFLUENT)
Parts needed	
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	UNIT RESTARTED UPON ARRIVAL. ; INFLUENT SAMPLE ONLY ONE TAKEN PER IRIS. IRIS TOOK EFFLUENT SAMPLE (7-17-09)

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	3401	1115
Last visit hour meter reading	3351	1100
Run hours	60	
Water holding tank gallons	180 gal.	
Water Collected from CV.	0 gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	309	126.1	3.6
PID reading 2	309	125.8	3.4
PID reading 3	309	125.8	3.5
PID average of the 3 readings / TEMP °F	309 / 90.9	125.9 / 86.4	3.5 / 86

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		No*	
Wells	Online		1,4,5,6,7	
Wells	Off Line		2,3	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		311	
C1 influent	Temperature in F	120F	108	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	824	
Instrumentation Run Observations				
Temperature in °F			108	
Pressure in IN.W.C			40	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		40	
C2 influent	Tmeperature in F	F	90.9	
C2 influent	Gas concentration in PPM		309	
C3 influent	Tmeperature in F	F	86.4	
C3 effluent	Gas concentration in PPM	3 ppm	3.5	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	40	4.6	10,000 (OVR)	29.5	89.3
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	7.7	8461	39.3	94.8
SVE-05A	100	7.5	47	57.6	108.9
SVE-06A	100	7.6	101.6	78.7	80
SVE-07A	100	7.5	37.4	40.5	110.2

Notes.

Vacuum in w.c measured using DWYER Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Thermo Env. 580B OVA PID

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	40	26.4	15.6	3.6
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1245			1240
Analysis	TO-15 TO-3			TO-15 TO-3
Last date for sample collection	1 MONTH AGO			1 MONTH AGO
Vessel Serial No.	GAC-C			GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	8-6-09
Time: Arrived, Departed	1100 - 1245
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	SPOKE TO PEARL, WAS TOLD TO LEAVE SYSTEM RUNNING, SHE WILL HAVE THE UNIT TURNED OFF.
	DIL. AIR FILTER Model- OCF-6 Part #-34L06AAP ELEMENT OPTIONS: PAPER-810475 WIRE-810040 S/N- R8904A-1-08

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	3569	1100
Last visit hour meter reading	3401	1115
Run hours	168	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	10	10,000+(OVR)	50	86.2
SVE-02A		10	10,000+ (OVR)	27.7	89.1
SVE-03A		9.8	10,000+ (OVR)	47	87.5
SVE-04A		9.5	10,000+(OVR)	43.3	98.3
SVE-05A		9	27.3	71	98.4
SVE-06A		9.1	38.5	92	83.5
SVE-07A		9.1	31.1	29	99.2

Notes:

Vacuum in w.c — measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump — measured using Therm. Env. PID 580B OVM

Flow in cfm — measured using VelociCal TSI

Temperature oF — measured using VelociCal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41.5	28.3	15.5	3.3
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

8-6-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF	C3 EFF.
PID reading 1	1694	826	50.9
PID reading 2	1699	830	48.8
PID reading 3	1,708	825	49.6
PID average of the 3 readings / TEMP °F	1700/97.4	827/97.1	49.7/96.5

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	YES ☆
Wells	Online		ALL	ALL
Wells	Off Line		NONE	NONE
Dilution Air	Adding - yes or no		YES	NO
Dilution Air	Valve open/closed (notches)		OPEN 100%	CLOSED 100%
Recirculation Valve	open/closed (%)		OPEN 20%	OPEN 20%
C1 influent	Gas concentration in PPM		2,347	
C1 influent	Temperature in F	120F	110	110
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	940	845
Instrumentation Run Observations				
Temperature in °F			110	110
Pressure in IN.W.C			41.5	35
Differential Pressure in IN.W.C			1.8	1.6
Calculated flow rate in scfm		750 scfm	740	693
C1 influent	Pressure in IN. W.C.		41.5	35
C2 influent	Tmeperature in F	F	97.4	
C2 influent	Gas concentration in PPM		1,700	
C3 influent	Tmeperature in F	F	97.1	
C3 effluent	Gas concentration in PPM	3 ppm	49.7	57.1

740

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	8-13-09
Time: Arrived, Departed	1045-1230
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	C3 Effluent sample taken (1 tedlar bag)
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	UNIT SHUTDOWN MANUALLY TO WAIT FOR LAB RESULTS OF C3 EFFLUENT DATA.

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	3737	1045
Last visit hour meter reading	3569	1100
Run hours	168	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

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8-13-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	33.4	10,000+ (OVER)	149	80.1
SVE-02A		33.2	10,000+(OVR)	114	82.3
SVE-03A		33.3	10,000+(OVR)	WET	84.2
SVE-04A		31	8,349	110	93
SVE-05A		27.1	36.3	151	94.2
SVE-06A		27.6	44.7	220	75.6
SVE-07A		27.5	27.1	111	99.7

Notes:

Vacuum in w c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	35	24.1	13.1	2.7
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				1200 pm
Analysis				
Last date for sample collection				
Vessel Serial No.				GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

8-13-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	1170	848	216
PID reading 2	1099	848	221
PID reading 3	1124	852	217
PID average of the 3 readings / TEMP °F	1131 / 95.3	849 / 93.4	218 / 91.5

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	NO *
Wells	Online		ALL	
Wells	Off Line		none	
Dilution Air	Adding - yes or no		NO	
Dilution Air	Valve open/closed (notches)		CLOSED 100%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		2218	
C1 influent	Temperature in F	120F	109	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	800	
Instrumentation Run Observations				
Temperature in °F			108	
Pressure in IN.W.C			35	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		35	
C2 influent	Tmeperature in F	F	95.3	
C2 influent	Gas concentration in PPM		1131	
C3 influent	Tmeperature in F	F	93.4	
C3 effluent	Gas concentration in PPM	3 ppm	218	

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	8-20-04
Time: Arrived, Departed	1430 - 1500
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	NO*
Non Routine O&M	YES; ROTATE BLOWER
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes *	UNIT STILL DOWN

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	3738	
Last visit hour meter reading		
Run hours		
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

DCE
8-20-09

580B OVM with 10.8 bulb - PID calibrated to 60 ppmv Hexane			
PID reading 1			
PID reading 2			
PID reading 3			
PID average of the 3 readings			

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		NO	NO
Wells	Online			
Wells	Off Line			
Dilution Air	Adding - yes or no			
Dilution Air	Valve open/closed (notches)			
Recirculation Valve	open/closed (%)			
C1 influent	Gas concentration in PPM			
C1 influent	Temperature in F	120F		
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm		
Instrumentation Run Observations				
Temperature in °F				
Pressure in IN.W.C				
Differential Pressure in IN.W.C				
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.			
C2 influent	Tmeperature in F	F		
C2 influent	Gas concentration in PPM			
C3 influent	Tmeperature in F	F		
C3 effluent	Gas concentration in PPM	3 ppm		

DICE
9-20-09

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A					
SVE-02A					
SVE-03A					
SVE-04A					
SVE-05A					
SVE-06A					
SVE-07A					

Notes:

Vacuum in w.c measured using _____

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using _____

Flow in cfm measured using _____

Temperature oF measured using _____

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?				
Was C2 carbon changed today?				
Was C3 carbon changed today?				

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	8-27-09
Time: Arrived, Departed	1430 - 1615
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	★ Unit down on arrival due to high temp.
	★ Unit down on departure until scheduled maintenance for Phase 1. Wells 5, 6, and 7 readings could not be taken.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	3762	1430
Last visit hour meter reading	3738	1430
Run hours	24	
Water holding tank gallons	⊖ gal.	
Water Collected from CV.	⊖ gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	3834	1.1	0
PID reading 2	3762	0	0
PID reading 3	3838	0	0
PID average of the 3 readings / TEMP °F	3811 / 104.1	0.3 / 106.8	0 / 113.2

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		NO	~~YES~~ NO
Wells	Online			SEE BELOW
Wells	Off Line			
Dilution Air	Adding - yes or no			NO
Dilution Air	Valve open/closed (notches)			CLOSED 100%
Recirculation Valve	open/closed (%)			OPEN 90%
C1 influent	Gas concentration in PPM			9888
C1 influent	Temperature in F	120F		118
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm		795
Instrumentation Run Observations				
Temperature in °F				120
Pressure in IN.W.C				52
Differential Pressure in IN.W.C				1.4
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.			52
C2 influent	Tmeperature in F	F		104.1
C2 influent	Gas concentration in PPM			3811
C3 influent	Tmeperature in F	F		106.8
C3 effluent	Gas concentration in PPM	3 ppm		0

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	28.8	10000(OVR)	148	83.2
SVE-02A	100	28.1	10,000+(OVR	111	91.9
SVE-03A	100	28.9	10,000+(OVR)	126	89.3
SVE-04A	100	26.8	6874	120	105
SVE-05A ★	N/A				
SVE-06A ★					
SVE-07A ★					

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Veloc:Cal TSI

Temperature oF measured using Veloc:Cal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	52	38.9	11.6	3.4
Vessel Serial No.	GAC-A	GAC-A	GAC-B	GAC-C
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Drewelow Remediation Equipment, Inc.
A CERTIFIED SMALL BUSINESS ENTERPRISE
1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	9-3-09
Time: Arrived, Departed	1500 - 1615
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	3833	1500
Last visit hour meter reading	3762	1430
Run hours	71	
Water holding tank gallons	~~0~~ gal.	
Water Collected from CV.	~~0~~ gal.	

DICE 9-3-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	6329	92.4	0
PID reading 2	6347	92.4	0
PID reading 3	6347	92.4	0
PID average of the 3 readings / TEMP °F	6341 / 105.5	92.4 / 97.7	0 / 103.7

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		~~SEE BELOW~~	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 30%	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		19,000+ (OVR)	
C1 influent	Temperature in F	120F	113	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	790	
Instrumentation Run Observations				
Temperature in °F			114	
Pressure in IN.W.C			54	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		54	
C2 influent	Tmeperature in F	F	105.5	
C2 influent	Gas concentration in PPM		6347	
C3 influent	Tmeperature in F	F	97.7	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DLE 9.3.07

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	25.8	10,000(OVR)	144	87.1
SVE-02A	100	25.6	4,957	97.5	91.8
SVE-03A	100	25.8	10,000(OVR)	138	90.1
SVE-04A	100	24.3	7,115	89	98.8
SVE-05A	100	21.9	24.3	142	104.8
SVE-06A	100	22	31.6	216	84
SVE-07A	100	21.9	17.7	97.5	112.2

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NA			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	54	41.8	11.6	3.5
Vessel Serial No.	GAC-A	GAC-A	GAC-B	GAC-C
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	9-10-09
Time: Arrived, Departed	1530 / 1700
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Chris Alger
Equipment Type	750 cfm blower package
PID Serial Number	5
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	YES DIL. FILTER # 810475
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO

UNIVERSAL SILENCER MOD - CCF-6

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	4002	1330
Last visit hour meter reading	3833	1500
Run hours	169	
Water holding tank gallons	Ø gal.	
Water Collected from CV.	Ø gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane			
PID reading 1	574	148	0
PID reading 2	574	147	0
PID reading 3	574	148	0
PID average of the 3 readings	574	148	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		See	
Wells	Off Line		Below	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		4	
Recirculation Valve	open/closed (%)		20%	
C1 influent	Gas concentration in PPM		700	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	810	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			60+	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		60+	
C2 influent	Tmeperature in F	F	106	
C2 Influent	Gas concentration in PPM		547	
C3 influent	Tmeperature in F	F	98.2	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	26.2	8280	140	88.2
SVE-02A	Ø	—			—
SVE-03A	Ø	—			—
SVE-04A	100	27	6668	92.6	99.1
SVE-05A	100	22.3	24.1	140	106.2
SVE-06A	100	22.8	30.2	225	85.1
SVE-07A	100	22.2	20	98	110.9

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using THERMO Trace PID SYSTEM

Flow in cfm measured using Velocity Tsi

Temperature oF measured using Vera Cor Tsi

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	60+	54	22.6	8.2
Vessel Serial No.	GAC-A	GAC-A	GAC-B	GAC-C
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	9-17-09
Time: Arrived, Departed	1445 - 1615
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; MONTHLY VAPOR SAMPLES TAKEN
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	4170	1515
Last visit hour meter reading	4002	1330
Run hours	168	
Water holding tank gallons	Ø gal.	
Water Collected from CV.	Ø gal.	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	13.4	OVR(10,000+)	81.4	84.5
SVE-02A	Ø				
SVE-03A	Ø				
SVE-04A	100	12.8	8824	65	95.8
SVE-05A	100	11.6	19.4	95.6	103.6
SVE-06A	100	11.7	38.9	122	81.3
SVE-07A	100	11.7	23.1	57.5	105.3

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	64	54.3	12.9	3.9
Vessel Serial No.	GAC-A	GAC-A	GAC-B	GAC-C
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1605			1600
Analysis				
Last date for sample collection	8-13-09			8-13-09
Vessel Serial No.	GAC-A			GAC-C

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	489	416	2.3
PID reading 2	1054	412	1.9
PID reading 3	1021	423	2.3
PID average of the 3 readings	1021.3	417	2.2

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (4)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		1248	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	813	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			64	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		64	
C2 influent	Tmeperature in F	F	103.2	
C2 influent	Gas concentration in PPM		1021.3	
C3 influent	Tmeperature in F	F	98.6	
C3 effluent	Gas concentration in PPM	3 ppm	2.2	

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Vapor Extraction Report

Site Location	DTCB/Fibrotech, Inc.
Project Manager	Chris Alger
Date	9-24-09
Time: Arrived, Departed	1645 1800
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	M Lemoge
Equipment Type	750 cfm blower package
PID Serial Number	5
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES - INSTALL DIL. AIR FILTER
Parts needed	NO
Parts installed	DILUTION AIR FILTER
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	RECOMMEND SHUTTING DOWN SYSTEM DUE TO C3 EFFLUENT OUT OF COMPLIANCE WITH PERMIT

Data obtained from onsite meters, gages and settings		Time of reading
Today's hour meter reading	4339	1645
Last visit hour meter reading	4170	1515
Run hours	151	
Water holding tank gallons	Ø gal.	
Water Collected from CV.	Ø gal.	

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF	C2 EFF	C3 EFF
PID reading 1	1110	653	9.1
PID reading 2	1115	655	9.1
PID reading 3	1120	650	9.1
PID average of the 3 readings	1115	653	9.1

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SER	
Wells	Off Line		Be Low	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		4	
Recirculation Valve	open/closed (%)		20%	
C1 influent	Gas concentration in PPM		1320	
C1 influent	Temperature in F	120F	110	
C1 influent	Flow rate in CFM using handheld veloci-cal instrument	750 scfm	812	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			65	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		65	
C2 influent	Tmeperature in F	F	103.4	
C2 influent	Gas concentration in PPM		1115	
C3 influent	Tmeperature in F	F	99.8	
C3 effluent	Gas concentration in PPM	3 ppm	9.1	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	13.6	OVER RANGE	81.1	86.2
SVE-02A	Ø				
SVE-03A	Ø				
SVE-04A	100	12.7	8747	66	96.2
SVE-05A	100	11.7	20.2	96	101.8
SVE-06A	100	11.7	40.4	120	82.2
SVE-07A	100	11.8	28.1	53.8	104.7

Notes:

Vacuum in w.c — measured using DWYER MANOMETER

concentration in ppmv hexane collected in tedlar bags using a portable pump — measured using TERRA PROV PID S80B OVM

Flow in cfm — measured using URL GAL TSI

Temperature oF — measured using URL GAL TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	No			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	6.5	5.5	13.2	4.1
Vessel Serial No.	GAC-A	GAC-A	GACB	GAC-C
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	10-1-09
Time: Arrived, Departed	1345 - 1500
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	Q
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	4411	1345
Last visit hour meter reading		
Run hours		
Water holding tank gallons	~~0~~ gal.	
Water Collected from CV.	~~0~~ gal.	

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DICG 10-1-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	8.9	10,000+(OVR)	63.5	86
SVE-02A	~~0~~				
SVE-03A	~~0~~				
SVE-04A	100	8.5	10,000+(OVR)	51	100.4
SVE-05A	100	8.1	53.9	83	99
SVE-06A	100	8.3	111.7	94.5	83.3
SVE-07A	100	8.1	67.4	40.8	106.9

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	40	25.9	13	3.7
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

DICE 10-1-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	44.9	0	0
PID reading 2	44.9	0.6	0
PID reading 3	39.9	0	0
PID average of the 3 readings	43.2	0.2	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (6)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		594	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	845	
Instrumentation Run Observations				
Temperature in °F			112	
Pressure in IN.W.C			40	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		40	
C2 influent	Tmeperature in F	F	101.4	
C2 influent	Gas concentration in PPM		43.2	
C3 influent	Tmeperature in F	F	92.4	
C3 effluent	Gas concentration in PPM	3 ppm	0	

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	inspect blower and motor	check for process gas leaks	check equipment for loose or missing hardware	temperature survey of control panel	inspect control panel	remove and clean separator demisting element	inspect drive belt and sheaves									test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly									Monthly														Quarterly				
[redacted]515	6-18-09	X	X	X	X	X	X	X	X	X															X	X	X	X	X
2682	6-25-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
2849	7-2-09	X	X	X	X	X	X	X	X	X																			
3018	7-9-09	X	X	X	X	X	X	X	X	X																			
3186	7-16-09	X	X	X	X	X	X	X	X	X																			
3351	7-23-09	X	X	X	X	X	X	X	X	X																			
3401	7-30-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
3569	8-6-09	X	X	X	X	X	X	X	X	X																			
3737	8-13-09	X	X	X	X	X	X	X	X	X																			
3738	8-20-09	X	X	X	X	X	X	X	X	X																			
3762	8-27-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
3833	9-3-09	X	X	X	X	X	X	X	X	X																			
4022	9-10-09	X	X	X	X	X	X	X	X	X															X	X	X	X	X
4170	9-17-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X												
	9-24-09																												
4411	10-1-09	X	X	X	X	X	X	X	X	X																			

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check separator and pipelines for water leaks	check inline filter element	inspect separator and pipelines for water leaks	inspect separator float switches	inspect and clean water transfer pump	inspect and clean heat exchanger	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
594	2-19-09	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
752	2-26-09	X	X	X	X	X	X	X	X	X												
753	3-16-09	X	X	X	X	X	X	X	X	X												
946	3-26-09	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
1067	4-2-09	X	X	X	X	X	X	X	X	X												
1069	4-9-09	X	X	X	X	X	X	X	X	X												
1232	4-16-09	X	X	X	X	X	X	X	X	X												
1262	4-23-09	X	X	X	X	X	X	X	X	X												
1427	4-30-09	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
1433	5-4-09	X	X	X	X	X	X	X	X	X												
1500	5-7-09	X	X	X	X	X	X	X	X	X												
1676	5-14-09	X	X	X	X	X	X	X	X	X												
1946	5-21-09	X	X	X	X	X	X	X	X	X												
2010	5-28-09	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
2179	6-4-09	X	X	X	X	X	X	X	X	X												
2348	6-11-09	X	X	X	X	X	X	X	X	X												

Drewelow Remediation Equipment, Inc.
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1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	10-8-09
Time: Arrived, Departed	1430-1600
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist I	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	C
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	
Parts needed	
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	4580	1430
Last visit hour meter reading	4411	1345
Run hours	169	
Water holding tank gallons	~~0~~ gal.	
Water Collected from CV.	~~0~~ gal.	

DICE 10-2-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	167.3	1.1	0
PID reading 2	169.3	0.6	0
PID reading 3	171.2	0.8	0
PID average of the 3 readings	169.2	0.8	0

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (6)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		464	
C1 influent	Temperature in F	120F	104	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	840	
Instrumentation Run Observations				
Temperature in °F			105	
Pressure in IN.W.C			41	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm	722	
C1 influent	Pressure in IN. W.C.		41	
C2 influent	Tmeperature in F	F	97	
C2 influent	Gas concentration in PPM		169.2	
C3 influent	Tmeperature in F	F	94.4	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DICe 10-8-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	9.6	10,000+(over)	57	80
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	9.5	5701	36.5	84.3
SVE-05A	100	9	32.6	78.5	82.3
SVE-06A	100	8.9	72.2	83	76.4
SVE-07A	100	9	24.7	45.1	86.2

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using ThermEnv PID 590B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41	27.4	13.7	3.9
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	check equipment for loose or missing hardware	check for process gas leaks	inspect blower and motor	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly									Monthly										Quarterly	
4580	10-8-09	X	X	X	X	X	X	X	X	X												

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	10-15-09
Time: Arrived, Departed	1615-1730
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	4749	1615
Last visit hour meter reading	4580	1430
Run hours	169	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

Dice 10-15-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF	C2 EFF.	C3 EFF.
PID reading 1	245.3	0.8	0
PID reading 2	247.3	0.7	0
PID reading 3	243.3	0.6	0
PID average of the 3 readings	245.3	0.7	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (6)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		491	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	815	
Instrumentation Run Observations				
Temperature in °F			108	
Pressure in IN.W.C			41	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		41	
C2 influent	Tmeperature in F	F	99.4	
C2 influent	Gas concentration in PPM		245.3	
C3 influent	Tmeperature in F	F	95	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DICE 10-15-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	13.2	10,000+ (OVR)	78.5	77
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	12.7	48.91	80.9	89.1
SVE-05A	100	7.2	49.4	49.3	86.3
SVE-06A	100	7.1	101.5	69	74.1
SVE-07A	100	7	36.9	39.8	90.3

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Veloci-Cal TSI

Temperature oF measured using Veloci-Cal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	No			
Was C3 carbon changed today?	No			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41	27.2	13.6	4
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	inspect and pipelines for water leaks	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level, grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	change blower oil	check all wire landings	test thermal overload shut down	test high water alarm shut down	test high temperature alarm shut down
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	10-22-09
Time: Arrived, Departed	0830 – 1030
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	Q
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; MONTHLY VAPOR SAMPLING
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	4910	0830
Last visit hour meter reading	4749	1615
Run hours	161	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

DICE 10-22-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF	C3 EFF
PID reading 1	249.9	0	0
PID reading 2	245.8	0	0
PID reading 3	245.8	0	0
PID average of the 3 readings	247.1	0	0

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		20% OPEN	
C1 influent	Gas concentration in PPM		480	
C1 influent	Temperature in F	120F	107	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	825	
Instrumentation Run Observations				
Temperature in °F			108	
Pressure in IN.W.C			41	
Differential Pressure in IN.W.C			1.7	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		41	
C2 influent	Tmeperature in F	F	91.1	
C2 influent	Gas concentration in PPM		247.1	
C3 influent	Tmeperature in F	F	87.5	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DICE
10-22-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	11.2	10,000 (OVR)	57.5	74.8
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	11.4	6058	18.9	78
SVE-05A	100	9.3	29.1	54.9	72.6
SVE-06A	100	9.5	104.1	72.5	71
SVE-07A	100	9.5	70.8	36.9	73.1

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	No			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	41	29.8	14.4	3.8
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1010 am			1015 am
Analysis				
Last date for sample collection				
Vessel Serial No.	GAC-C			GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

		Weekly									Monthly											Quarterly					
Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	inspect blower and motor	check blower oil level - grease blower	check for process gas leaks	check equipment for loose or missing hardware	inspect control panel	temperature survey of control panel	remove and clean separator demisting element	inspect drive belt and sheaves					change blower oil	check all wire landings	test thermal overload shut down	test high water alarm shut down	test high temperature alarm shut down	
4580	10-8-09	X	X	X	X	X	X	X	X	X																	
4749	10-15-09	X	X	X	X	X	X	X	X	X																	
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	10-26-09
Time: Arrived, Departed	1530 - 1645
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	
Parts needed	
Parts installed	No
Carbon lead-lag changed?	No
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	5013	1530
Last visit hour meter reading	4910	0830
Run hours	103	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

DICE 10-26-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF	C2 EFF.	C3 EFF.
PID reading 1	338	0.6	0
PID reading 2	341	0.4	0
PID reading 3	338	0.5	0
PID average of the 3 readings	339	0.4	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE BELOW	
Wells	Off Line			
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		726	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	820	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			39	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		39	
C2 influent	Tmeperature in F	F	101.2	
C2 influent	Gas concentration in PPM		339	
C3 influent	Tmeperature in F	F	95	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DICE 10-26-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	10.6	10,000+(OVR)	72.3	82
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	10.3	7095	29.5	93.8
SVE-05A	100	7.7	32.9	685	85.7
SVE-06A	100	7.8	52.2	57	80.4
SVE-07A	100	7.8	78.3	39.4	90

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	39	25.7	12.8	3.3
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	change blower oil	check all wire landings	test thermal overload shut down	test high water alarm shut down	test high temperature alarm shut down
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	11-2-09
Time: Arrived, Departed	1130-1300
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist I	NATHAN
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	OIL. AIR FILTER
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	5178	1130
Last visit hour meter reading	5013	1530
Run hours	165	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

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DICE 11-2-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	19.8	10,000+(OVR)	128	77.3
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	20.6	10,000+(OVR)	21.7	95.1
SVE-05A	100	4.3	15.6	32.4	91
SVE-06A	100	4.8	72.3	46.2	82.3
SVE-07A	100	4.9	59.9	29.6	96.2

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using VelociCal TSI

Temperature oF measured using VelociCal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	37	24.2	11.9	3.2
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

DICE
11-2-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	918	78.1	0
PID reading 2	918	81.2	0
PID reading 3	926	78.1	0
PID average of the 3 readings	922	79.1	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN 60%	
C1 influent	Gas concentration in PPM		2157	
C1 influent	Temperature in F	120F	106	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	775	
Instrumentation Run Observations				
Temperature in °F			107	
Pressure in IN.W.C			37	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm	696	
C1 influent	Pressure in IN. W.C.		37	
C2 influent	Tmeperature in F	F	97.3	
C2 influent	Gas concentration in PPM		922	
C3 influent	Tmeperature in F	F	97.6	
C3 effluent	Gas concentration in PPM	3 ppm	0	

Phibro Blower Package Maintenance Schedule

Hour meter	Date	Weekly									Monthly											Quarterly					
		wipe down equipment with simple green	check dilution air filter element	check separator and pipelines for water leaks	check inline filter element	inspect separator float switches	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	check equipment for loose or missing hardware	check for process gas leaks	inspect blower and motor	remove and clean separator demisting element	temperature survey or control panel	inspect control panel	inspect drive belt and sheaves					test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil	
4580	10-8-09	X	X	X	X	X	X	X	X	X																	
4749	10-15-09	X	X	X	X	X	X	X	X	X																	
4916	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5013	10-26-09	X	X	X	X	X	X	X	X	X																	
5178	11-2-09	X	X	X	X	X	X	X	X	X																	

Drewelow Remediation Equipment, Inc.
A CERTIFIED SMALL BUSINESS ENTERPRISE
1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	11-9-09
Time: Arrived, Departed	1215 - 1330
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	Yes
Non Routine O&M	NO
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	No
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	5347	1230
Last visit hour meter reading	5178	1130
Run hours	169	
Water holding tank gallons	0 gal.	
Water Collected from CV.	0 gal.	

DICE 11-9-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	843	206	1.2
PID reading 2	841	204.7	1
PID reading 3	840	204.7	1.1
PID average of the 3 readings	841.3	205.1	1.1

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 5	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		1165	
C1 influent	Temperature in F	120F	109	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	795	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			36	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		36	
C2 influent	Tmeperature in F	F	94.3	
C2 influent	Gas concentration in PPM		841.3	
C3 influent	Tmeperature in F	F	93	
C3 effluent	Gas concentration in PPM	3 ppm	1.1	

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DICE 11-9-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	23.7	10,000+(OVR)	142	77.2
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	22.4	10,000+(OVR)	18.6	88.6
SVE-05A	100	4.1	27.4	32.9	87.4
SVE-06A	100	3.6	112	44.5	80
SVE-07A	100	3.4	68.9	18.3	92.8

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	No			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	36	23.9	11.8	5.3
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	check blower oil level - grease blower	check blower and motor	check equipment for loose or missing hardware	check for process gas leaks	inspect control panel	temperature survey of control panel	remove and clean separator demisting element	Inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												

Drewelow Remediation Equipment, Inc.
A CERTIFIED SMALL BUSINESS ENTERPRISE
1523 Sterling Court, Escondido, California 92029
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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	11-16-09
Time: Arrived, Departed	1145 – 1300
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	NO
Parts installed	NEW DIL. AIR FILTER
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	5514	1145
Last visit hour meter reading	5347	1130
Run hours	167	
Water holding tank gallons	30 gal.	
Water Collected from CV.	0 gal.	

DICE 11-16-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	598	322	0
PID reading 2	599	323	0
PID reading 3	598	322	0
PID average of the 3 readings	598	322	0

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 5	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		724	
C1 influent	Temperature in F	120F	108	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	815	
Instrumentation Run Observations				
Temperature in °F			107	
Pressure in IN.W.C			40	
Differential Pressure in IN.W.C			1.6	
Calculated flow rate in scfm		750 scfm	698	
C1 influent	Pressure in IN. W.C.		40	
C2 influent	Tmeperature in F	F	92.2	
C2 influent	Gas concentration in PPM		598	
C3 influent	Tmeperature in F	F	93.5	
C3 effluent	Gas concentration in PPM	3 ppm	0	

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DKE 11-16-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	9.4	10,000+(OVR)	55.5	78.4
SVE-02A	0				
SVE-03A	0				
SVE-04A	100	9.4	2170	12.9	87.5
SVE-05A	100	8.2	13.6	74	91.7
SVE-06A	100	8.1	24.7	86	78.1
SVE-07A	100	8.2	9.9	56.9	93.7

Notes:

Vacuum in w.c — measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump — measured using Therm. Env. PID 580B OVM

Flow in cfm — measured using Velocical TSI

Temperature oF — measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	40	26.5	13	3.5
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	Inspect drive belt and sheaves	inspect control panel	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												
5514	11-16-09	X	X	X	X	X	X	X	X	X												

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Algor
Date	11-23-09
Time: Arrived, Departed	1415-1650
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; MONTHLY VAPOR SAMPLES TAKEN
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	WELL SVE-02A OPENED 20%

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	5684	1415
Last visit hour meter reading	5514	1145
Run hours	170	
Water holding tank gallons	30 gal.	
Water Collected from CV.	0 gal.	

DICE 11-23-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	175.7	76.9	0
PID reading 2	175.7	77.5	0
PID reading 3	175.7	77.5	0
PID average of the 3 readings	175.7	77.2	0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	YES
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN 5	
Recirculation Valve	open/closed (%)		OPEN 100%	
C1 influent	Gas concentration in PPM		184.7	292
C1 influent	Temperature in F	120F	106	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	785	
Instrumentation Run Observations				
Temperature in °F			106	
Pressure in IN.W.C			36	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm	674	
C1 influent	Pressure in IN. W.C.		36	
C2 influent	Tmeperature in F	F	93.7	
C2 influent	Gas concentration in PPM		175.7	
C3 influent	Tmeperature in F	F	90.4	
C3 effluent	Gas concentration in PPM	3 ppm	0	0

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DICE 11-23-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	13.2	10,000+(ave)	41.9	73.1
SVE-02A ☆	20				
SVE-03A	0				
SVE-04A	100	12.4	1433	11.2	83.6
SVE-05A	100	5.2	44.3	26.8	75.5
SVE-06A	100	24.8	138.4	20.9	80
SVE-07A	100	4.8	53.1	27.3	75.3

Notes:

Vacuum in w.c measured using Dwyer manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag changed
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in w.c.	36	25.1	11.4	34
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - in. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1455			1450
Analysis				
Last date for sample collection	10/09			10/09
Vessel Serial No.	GAC-C			GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check separator and pipelines for water leaks	check inline filter element	inspect separator float switches	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	temperature survey of control panel	inspect control panel	remove and clean separator demisting element	Inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												
5514	11-16-09	X	X	X	X	X	X	X	X	X												
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	11-30-09
Time: Arrived, Departed	1130 - 1245
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	BELT 3VX560
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	NO

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	~~5684~~ 5848	~~1415~~ 1130
Last visit hour meter reading	5684	1415
Run hours	164	
Water holding tank gallons	20 gal.	
Water Collected from CV.	0 gal.	

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DICE 11-30-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	11	10,000+(over)	8.8	82.7
SVE-02A	20	11.1	2958	18.7	74.1
SVE-03A	0				
SVE-04A	100	11.8	983	11.4	90.1
SVE-05A	100	3.5	32.7	20.6	77.5
SVE-06A	100	3.7	96.7	27.5	76.8
SVE-07A	100	3.7	41	13.3	88.6

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using VelociCal TSI

Temperature oF measured using VelociCal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	35	23.2	11.3	3.1
Vessel Serial No.	GAC C	GAC C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

DICE 11-30-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF	C2 EFF.	C3 EFF.
PID reading 1	184.3	96.4	0
PID reading 2	184.3	95.7	0
PID reading 3	183.7	95.7	0
PID average of the 3 readings	184.1	95.9	0

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN (20%)	
C1 influent	Gas concentration in PPM		191.4	
C1 influent	Temperature in F	120F	110	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	810	
Instrumentation Run Observations				
Temperature in °F			110	
Pressure in IN.W.C			35	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		35	
C2 influent	Tmeperature in F	F	93.6	
C2 influent	Gas concentration in PPM		184.1	
C3 influent	Tmeperature in F	F	89	
C3 effluent	Gas concentration in PPM	3 ppm	0	

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	check blower oil level - grease blower	inspect blower and motor	check for process gas leaks	check equipment for loose or missing hardware	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	Inspect drive belt and sheaves	-	-	-	-	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil	-
		Weekly										Monthly										Quarterly					
4580	10-8-09	X	X	X	X	X	X	X	X	X																	
4749	10-15-09	X	X	X	X	X	X	X	X	X																	
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5013	10-26-09	X	X	X	X	X	X	X	X	X																	
5178	11-2-09	X	X	X	X	X	X	X	X	X																	
5347	11-9-09	X	X	X	X	X	X	X	X	X																	
5514	11-16-09	X	X	X	X	X	X	X	X	X																	
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5848	11-30-09	X	X	X	X	X	X	X	X	X																	

Drewelow Remediation Equipment, Inc.
A CERTIFIED SMALL BUSINESS ENTERPRISE
1523 Sterling Court, Escondido, California 92029
Voice: 760 546-6456 Fax: 760 546-6476

Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	12-7-09
Time: Arrived, Departed	1400 - 1530
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES CHANGED BLOWER BELTS (½ hr)
Parts needed	NO
Parts installed	BLOWER BELTS
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	Vac., Flow, temp., etc. readings not taken due to rain. PID readings of influent/effluent taken.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	6018	1400
Last visit hour meter reading	5848	1130
Run hours	170	
Water holding tank gallons	20 gal.	
Water Collected from CV.	0 gal.	

Time 12-7-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	184.1	67.4	0
PID reading 2	184.1	69.3	0
PID reading 3	184.1	67.4	0
PID average of the 3 readings	184.1	68	0

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN(5)	
Recirculation Valve	open/closed (%)		OPEN(20)	
C1 influent	Gas concentration in PPM		188	
C1 influent	Temperature in F	120F	100	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm		
Instrumentation Run Observations				
Temperature in °F			100	
Pressure in IN.W.C			35	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm	676.9	
C1 influent	Pressure in IN. W.C.			
C2 influent	Tmeperature in F	F		
C2 influent	Gas concentration in PPM		144.1	
C3 influent	Tmeperature in F	F		
C3 effluent	Gas concentration in PPM	3 ppm	0	

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Dice 12-7-09

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100				
SVE-02A	20				
SVE-03A	0				
SVE-04A	100				
SVE-05A	100				
SVE-06A	100				
SVE-07A	100				

Notes:

Vacuum in w.c measured using ——

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using ——

Temperature oF measured using ——

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?				
Was C3 carbon changed today?				

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.				
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America. Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	check separator and pipelines for water leaks	inspect and clean water transfer pump	inspect separator and pipelines for water leaks	inspect and clean heat exchanger	check blower oil level - grease blower	check blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												
5514	11-16-09	X	X	X	X	X	X	X	X	X												
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5848	11-30-09	X	X	X	X	X	X	X	X	X												
6018	12-7-09	X	X	X	X	X	X	X	X	X												

Drewelow Remediation Equipment, Inc.
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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	12-14-09
Time: Arrived, Departed	1400 - 1600
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	
Parts needed	
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	6186	1410
Last visit hour meter reading		
Run hours		
Water holding tank gallons	20 gal.	
Water Collected from CV.	0 gal.	

DICE 12-14-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	173.6	84.8	1.7
PID reading 2	173.6	85.6	2.1
PID reading 3	173.6	85.6	2.1
PID average of the 3 readings	173.6	85.2	1.9

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN 20%	
C1 influent	Gas concentration in PPM		484	
C1 influent	Temperature in F	120F	106	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	825	
Instrumentation Run Observations				
Temperature in °F			105	
Pressure in IN.W.C			35	
Differential Pressure in IN.W.C			1.5	
Calculated flow rate in scfm		750 scfm	673.92	
C1 influent	Pressure in IN. W.C.		35	
C2 influent	Tmeperature in F	F	91.2	
C2 influent	Gas concentration in PPM		173.6	
C3 influent	Tmeperature in F	F	87.3	
C3 effluent	Gas concentration in PPM	3 ppm	1.9	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	12.5	10,000+(OVR)	2.3	71.4
SVE-02A	20	11.7	10,000+(OVR)	3.1	68
SVE-03A	0				
SVE-04A	100	11.9	8375	8.3	69.1
SVE-05A	100	0.3	13.1	6.2	67.1
SVE-06A	100	0.6	45.3	12.3	68.6
SVE-07A	100	1.3	17.3	14.5	66.8

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580 B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	35	23.6	11.4	3.1
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	inspect separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	inspect control panel	temperature survey of control panel	remove and clean separator demisting element	Inspect drive belt and sheaves	test high temperature alarm shut down	test high water alarm shut down	test thermal overload shut down	check all wire landings	change blower oil
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												
5514	11-16-09	X	X	X	X	X	X	X	X	X												
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5848	11-30-09	X	X	X	X	X	X	X	X	X												
6018	12-7-09	X	X	X	X	X	X	X	X	X												
6186	12-14-09	X	X	X	X	X	X	X	X	X												

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	12-21-09
Time: Arrived, Departed	1815-1915
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	YES; MONTHLY VAPOR SAMPLES COLLECTED
Parts needed	NO
Parts installed	NO
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	6358	1815
Last visit hour meter reading	6186	1410
Run hours	172	
Water holding tank gallons	20 gal.	
Water Collected from CV.	0 gal.	

DICE 12-21-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	89.8	68.4	1.1
PID reading 2	91.3	69.7	0.9
PID reading 3	90.5	69.7	1.1
PID average of the 3 readings	90.5	69.2	1.0

VES Arrival and Departure data				
		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN (20)	
C1 influent	Gas concentration in PPM		106.3	
C1 influent	Temperature in F	120F	99	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	795	
Instrumentation Run Observations				
Temperature in °F			98	
Pressure in IN.W.C			28	
Differential Pressure in IN.W.C			1.3	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		28	
C2 influent	Tmeperature in F	F	90.7	
C2 influent	Gas concentration in PPM		90.5	
C3 influent	Tmeperature in F	F	89.4	
C3 effluent	Gas concentration in PPM	3 ppm	1.0	

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PICE 12-21-07

Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	10.9	10,000(OVR)	2	69.3
SVE-02A	20	9.8	10,000(OVR)	2.7	68.7
SVE-03A	0				
SVE-04A	100	12.4	4583	6.9	70.2
SVE-05A	100	1.2	9.7	5.9	66.9
SVE-06A	100	0.8	32.4	10.4	69.1
SVE-07A	100	1.1	12.9	11.7	68.4

Notes:

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Velocical TSI

Temperature oF measured using Velocical TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	NO			
Was C2 carbon changed today?	NO			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	28	20.4	10.8	2.7
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time	1900			1855
Analysis				
Last date for sample collection				
Vessel Serial No.	GAC-C			GAC-A

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	Weekly									Monthly											Quarterly					
		wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	inspect separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	check separator and pipelines for water leaks	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	inspect control panel	temperature survey of control panel	remove and clean separator demisting element	inspect drive belt and sheaves				change blower oil	check all wire landings	test thermal overload shut down	test high water alarm shut down	test high temperature alarm shut down		
4580	10-8-09	X	X	X	X	X	X	X	X	X																	
4749	10-15-09	X	X	X	X	X	X	X	X	X																	
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5013	10-26-09	X	X	X	X	X	X	X	X	X																	
5178	11-2-09	X	X	X	X	X	X	X	X	X																	
5347	11-9-09	X	X	X	X	X	X	X	X	X																	
5514	11-16-09	X	X	X	X	X	X	X	X	X																	
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
5848	11-30-09	X	X	X	X	X	X	X	X	X																	
6018	12-7-09	X	X	X	X	X	X	X	X	X																	
6186	12-14-09	X	X	X	X	X	X	X	X	X																	
6358	12-21-09	X	X	X	X	X	X	X	X	X																	

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Vapor Extraction Report

Site Location	DICE/Phibro-Tech, Inc.
Project Manager	Chris Alger
Date	12-28-09
Time: Arrived, Departed	1230- 1400
DRE Project Engineer	David Drewelow / Mike Smith
DRE Specialist 1	Nathan
Equipment Type	750 cfm blower package
PID Serial Number	2
Serial Number	DE-160

Work performed

Routine O&M	YES
Non Routine O&M	NO
Parts needed	Yes; dilution air filter
Parts installed	No
Carbon lead-lag changed?	NO
Carbon changed?	NO
Notes	Wells SVE 1, 2, and 5 have a lot of water in the lines. Possible clog in the line.

Data obtained from onsite meters, gages and settings		**Time of reading**
Today's hour meter reading	6520	1230
Last visit hour meter reading	6358	1815
Run hours	162	
Water holding tank gallons	20 gal.	
Water Collected from CV.	0 gal.	

DICE 12-28-09

580B OVM with 10.8 bulb - PID calibrated to 50 ppmv Hexane	C1 EFF.	C2 EFF.	C3 EFF.
PID reading 1	60.7	47.3	1.3
PID reading 2	59.8	47.3	1.5
PID reading 3	60.7	47.3	1.4
PID average of the 3 readings	60.4	47.3	1.4

VES Arrival and Departure data		Maximum permitted reading	Arrival	Departure
System	Operating Yes or No		YES	
Wells	Online		SEE	
Wells	Off Line		BELOW	
Dilution Air	Adding - yes or no		YES	
Dilution Air	Valve open/closed (notches)		OPEN (5)	
Recirculation Valve	open/closed (%)		OPEN (20)	
C1 influent	Gas concentration in PPM		84.1	
C1 influent	Temperature in F	120F	106	
C1 influent using handheld veloci-cal instrument	Flow rate in CFM	750 scfm	785	
Instrumentation Run Observations				
Temperature in °F			106	
Pressure in IN.W.C			28	
Differential Pressure in IN.W.C			1.4	
Calculated flow rate in scfm		750 scfm		
C1 influent	Pressure in IN. W.C.		28	
C2 influent	Tmeperature in F	F	99.7	
C2 influent	Gas concentration in PPM		60.4	
C3 influent	Tmeperature in F	F	86.6	
C3 effluent	Gas concentration in PPM	3 ppm	1.4	

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Well data at the manifold

Well ID	Valve % Open	Vacuum - in w.c.	Concentration - PPM	Flow - cfm	Temperature - F
SVE-01A	100	25.4	4878	WET	62
SVE-02A	20	18.6	1081	WET	61.7
SVE-03A	0				
SVE-04A	100	30.9	10,000+(OVR)	12.7	77.5
SVE-05A	100	2.3	19.5	WET	63.2
SVE-06A	100	3.4	22.5	16.9	71.4
SVE-07A	100	3.3	24	14.7	70.8

Notes.

Vacuum in w.c measured using Dwyer Manometer

concentration in ppmv hexane collected in tedlar bags using a portable pump measured using Therm. Env. PID 580B OVM

Flow in cfm measured using Veloc-Cal TSI

Temperature oF measured using Veloc-Cal TSI

Carbon Vessel Information

		Carbon type	Vessel ID No.	Vessel lead-lag change?
Was C1 carbon changed today?	No			
Was C2 carbon changed today?	No			
Was C3 carbon changed today?	NO			

Arrival - Carbon Data

Sample locations	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In w.c.	28	17.9	8.8	2.3
Vessel Serial No.	GAC-C	GAC-C	GAC-B	GAC-A
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Departure - Carbon Data

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Pressure - In. w.c.				
Vessel Serial No.				
PID calibrated to 50 ppmv Hexane	Hexane	Hexane	Hexane	Hexane

Monthly - Vapor Sample Collection in Tedlar Bags

Sample location	C1 Influent	C1 Effluent	C2 Effluent	C3 Effluent
Time				
Analysis				
Last date for sample collection				
Vessel Serial No.				

Notes: Samples are collect in Tedlar bags and submitted to Test America, Los Angeles, CA with the attached copy of the chain of custody

Phibro Blower Package Maintenance Schedule

Hour meter	Date	wipe down equipment with simple green	check dilution air filter element	check inline filter element	inspect separator float switches	inspect separator and pipelines for water leaks	inspect and clean water transfer pump	inspect and clean heat exchanger	inspect separator and pipelines for water leaks	check blower oil level - grease blower	inspect blower and motor	check equipment for loose or missing hardware	check for process gas leaks	remove and clean separator demisting element	temperature survey of control panel	inspect control panel	inspect drive belt and sheaves	change blower oil	check all wire landings	test thermal overload shut down	test high water alarm shut down	test high temperature alarm shut down
		Weekly										Monthly										Quarterly
4580	10-8-09	X	X	X	X	X	X	X	X	X												
4749	10-15-09	X	X	X	X	X	X	X	X	X												
4910	10-22-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5013	10-26-09	X	X	X	X	X	X	X	X	X												
5178	11-2-09	X	X	X	X	X	X	X	X	X												
5347	11-9-09	X	X	X	X	X	X	X	X	X												
5514	11-16-09	X	X	X	X	X	X	X	X	X												
5684	11-23-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
5848	11-30-09	X	X	X	X	X	X	X	X	X												
6018	12-7-09	X	X	X	X	X	X	X	X	X												
6186	12-14-09	X	X	X	X	X	X	X	X	X												
6358	12-21-09	X	X	X	X	X	X	X	X	X												
6520	12-28-09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					