AIR PERMIT WAIVER QUARTERLY MONITORING REPORT SECOND QUARTER 2015

FORMER GENERAL MOTORS PLANT 801 BOXWOOD ROAD, WILMINGTON, DELAWARE

UST Facility ID: 3-000541 LUST Project#: N8708035 DE-1149 Operable Unit 4

Prepared For:

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Submitted and Prepared By:



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File # 2734.04.51



INTERNAL QUALITY CONTROL SHEET

This Quarterly Monitoring Report has been prepared by BrightFields, Inc. (BrightFields). This Report represents BrightFields' knowledge of conditions on the subject site at the time of preparation.

This Quarterly Monitoring Report was prepared and reviewed by the following BrightFields personnel:

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QUARTERLY MONITORING REPORT

1.0 INTRODUCTION

BrightFields, Inc. (BrightFields) has been retained by the Revitalizing Auto Communities Environmental Response (RACER) Trust to install and operate an interim remediation system to remediate hydrocarbon contamination in soil vapors and prevent migration of soil vapors to offsite receptors located at the Former General Motors Plant on Boxwood Road in Wilmington, Delaware, Underground Storage Tank (UST) Facility ID 3-000541 (herein referred to as the "Site") (Figure 1). This Quarterly Monitoring Report is being submitted to meet the requirements of the State of Delaware Department of Natural Resources and Environmental Control (DNREC) Permit Waiver for air emissions and to document the conditions of the Site during this reporting period.

Petroleum contamination has been confirmed present at the Site through numerous investigations. The contamination appears to have resulted from the historical operation of the Site and leakage from several former USTs.

This Quarterly Monitoring Report is the first report prepared for the interim remediation system. This report describes the system installation and covers all operations from March 30, 2015 through June 29, 2015 and contains operations details, monitoring details, and air sampling results.

The remediation system was installed by BrightFields and started in late March 2015. During this quarter, the soil vapor extraction (SVE) system was operated for 1,737.8 hours. System inspection field sheets are included in Appendix A.

1.1 <u>Purpose</u>

This Quarterly Monitoring Report has been prepared to meet air permit waiver requirements. The permit waiver is included as Appendix B.

1.2 <u>Site History</u>

The Former General Motors Plant is approximately 142 acres consisting of two tax parcels. The larger parcel is 126.6 acres with a 3-million square foot auto assembly plant, waste water



treatment plant, and parking lots. The second parcel is a 15-acre undeveloped wooded lot. The surrounding use of the Site is commercial and residential.

Historical research indicates that the main plant facility was constructed by General Motors in 1947 and operated until July 2009. General Motors filed for bankruptcy in June 2009 and the property was purchased by Fisker Automotive in July 2010. In March 2011, the RACER Trust was formed as part of the bankruptcy settlement to clean up and promote redevelopment of Former General Motors properties. In April 2014, Wanxiang Delaware acquired the property.

An April 9, 1990 letter from DNREC to General Motors stated that 12 underground storage tanks (USTs) were removed from the property. Ten of those tanks were adjacent to the Anchor Motor Freight Building, located in the southeast section of the plant along Dodson Avenue. Additionally, one gasoline UST (GMGT-1) was removed from near the southeastern corner of the assembly plant and one waste oil tank (WW-1) was removed from the stormwater area. The USTs contained diesel (four tanks), gasoline (three tanks), heating oil (two tanks), waste oil (two tanks), and engine oil (one tank).

A contaminated groundwater plume extends from the Anchor Motor Freight Building towards the northeast across Dodson Avenue. Groundwater contamination includes several volatile organic compounds (VOCs) including 1,2,4-trimethylbenzene, benzene, ethylbenzene, toluene, and xylenes (BTEX). Groundwater contamination also includes semivolatile organic compounds (SVOCs) including naphthalene and 2-methylnaphthalene. Subsurface contaminated soil extends from the edge of the Anchor Motor Freight Building to approximately the eastern edge of Dodson Avenue. Soil contamination also consists of VOCs including 1,2,4-trimethylbenzene, benzene, ethylbenzene, toluene, and xylenes.

Results of a vapor intrusion investigation, with sampling events from October 2012 through December 2013, show that offsite contaminated soil vapors extended from the edge of the property to approximately 100 feet east of Dodson Avenue. Soil gas samples that were collected contain VOCs, including 1,2,4-trimethylbenzene, benzene, ethylbenzene, and xylenes.

In July 2014, BrightFields completed a Focused Feasibility Study (FFS) for the Site to address potential vapor intrusion issues into nearby residential structures along Dodson Avenue. The FFS evaluated remedial alternatives and selected installation of a SVE system as an interim vapor phase remediation.



1.3 <u>System Installation</u>

In order to facilitate the remediation activities for the property, BrightFields installed six 2-inch diameter extraction wells northeast of the Anchor Motor Freight Building from December 17 to December 19, 2014. The wells were drilled to depths of approximately 20 feet below ground surface (bgs) and screened from approximately 12 feet bgs to 20 feet bgs. Each screen is 2-inch outer diameter polyvinyl chloride (PVC), 12 feet in length, with a slot size of 0.020 inches. Geoprobe boring logs and well construction logs are included as Appendix C and D, respectively.

On February 3, 2015, BrightFields began excavating the conveyance trenches for the SVE system. During the trench excavation, a layer of oil-saturated soil was encountered at 1 foot below the asphalt. This layer was about 20 inches thick and extended about 10 feet along the length of the trench. The oil-saturated soil was sitting on top of a clay layer and staining did not appear to extend into the clay. The soil exhibited oil, diesel, and gasoline-like odors and a maximum photoionization detector (PID) reading of 33.0 parts per million (ppm). PID readings ranged from 27.8 to 33.0 ppm. This petroleum impacted soil layer appeared to be limited in extent and was likely associated with pipe lines that ran from the former tanks to the fueling island. Only one of the pipes that was encountered contained product. The broken end of the pipe was plugged with a piece of absorbent pad during excavation and within a few minutes of uncovering, the pipe no longer exuded product.

BrightFields performed health and safety oversight during intrusive activities to monitor ambient dust levels and record PID readings in the soil and ambient air in the work area. Daily status reports summarizing work activities and air monitoring levels are included as Appendix E.

All soil, asphalt, and concrete removed for the excavation of the conveyance trenches was stockpiled onsite on three layers of 6 mil thick plastic polyethylene sheeting and covered with one layer of polyethylene sheeting. Stockpiles were maintained by BrightFields personnel until transport offsite. On April 28, 2015, 103.97 tons of excavated soil were transported to Clean Earth of New Castle for disposal. Manifests are included as Appendix F. Two loads of asphalt and one load of concrete were transported offsite on April 28, 2015 for recycling.

BrightFields began installing the underground conveyance piping to the blower on February 6, 2015. Each well was connected to the manifold by a separate 2-inch PVC line. An additional 4-inch PVC pipe was installed in the conveyance trench and capped inside of the trench box for future use if needed.



The installation was completed in February 2015 and system start-up was implemented on March 30, 2015. DNREC-Site Investigation and Restoration Section (SIRS) personnel were onsite on April 1, 2015 to review the system operation. Sound level measurements were collected inside the shed housing the systems catalytic oxidizer, inside the fence surrounding the system, and across Dodson Avenue. Measurements are included on the System Inspection Field Sheet included as Appendix A.

1.4 <u>Description of System</u>

The remediation system consists of a Falco 300 Catalytic Oxidizer with a 15-horsepower (hp) regenerative blower. The blower is capable of extracting 295 standard cubic feet per minute (scfm) of vapor flow at 60-inches of water vacuum. The blower is connected to extraction wells SVE-01 through SVE-06 (Figure 2).

Extracted vapors are currently treated by means of a catalytic oxidizer. Main components of the treatment system are as follows:

- Below ground piping to connect remediation wells to the system;
- Regenerative 15-hp SVE vacuum blower; and,
- Catalytic oxidizer to treat the extracted soil-gas.

There is a 40-gallon water knockout drum between the manifold and the catalytic oxidizer. A high-level switch connected to the water knockout drum turns off the blower and catalytic oxidizer to prevent drawing water into the catalytic oxidizer.



2.0 SYSTEM OPERATIONS AND MONITORING

BrightFields started the SVE system on March 30, 2015. This Quarterly Monitoring Report documents the remediation and monitoring activities performed at the Site from March 30, 2015, through June 29, 2015 (the second quarter of 2015). This report is the first monitoring period of system operations.

2.1 <u>Operations</u>

The SVE system was started on March 30, 2015. During the monitoring period from March 30, 2015 to June 29, 2015, the SVE system was not in operation on seven occasions.

There were six occasions in which the SVE system automatically shut down due to the high water level switch in the water knockout drum. Water was drained and staged in 55-gallon steel drums onsite prior to restarting the SVE system. BrightFields adjusted the manual dilution valve to reduce the vacuum on the extraction wells on May 15, 2015 in an effort to reduce the quantity of groundwater being pulled into the system. The SVE system ran consistently for remainder of the quarter. Five 55-gallon drums containing water drained from the knockout drum were transported offsite to Environmental Recovery Corporation of PA, located in Lancaster, Pennsylvania, for disposal on June 17, 2015. The manifest is included as Appendix G.

BrightFields shut down the SVE system on April 13, 2015 after receiving air bag laboratory results from March 31, 2015 which potentially showed VOC emissions greater than 2.4 lbs/day. BrightFields noticed that methane, which is not considered a VOC by 40 CFR Part 51.100(s) or the DNREC Division of Air Quality (DAQ) Air Quality Management Section (AQMS) (Title 7, 1100 Air Quality Management Section, Definitions), was included in C1-C4 hydrocarbon concentrations reported by the laboratory. BrightFields contacted DNREC to notify them of the potential issue then submitted an Incident Report to DNREC (included as Appendix H). BrightFields requested that the laboratory separate methane from the C1-C4 hydrocarbon concentration. On April 14, 2015, BrightFields inspected and filled the catalytic oxidizer catalyst port. The system was restarted the following day, on April 15, 2015. The revised lab data from March 31 showed that methane constituted the majority of the C1-C4 concentration and that VOC emissions were less than 2.4 lbs/day.



2.2 <u>Site Visits</u>

The system was inspected at a minimum of once per week during this quarter in an effort to optimize system operations and ensure compliance with the permit waiver requirements. The table below outlines the inspection dates and significant notes collected at the time of the inspection (the raw field sheets are included in Appendix A).

The following table presents the inspection dates and relevant information. Bolded dates represent dates that air bag samples were collected.

Inspection Dates:	Significant Notes:		
3/30/2015	System start-up with recirculation valve about 85% open and manual dilution valve closed.		
3/31/2015	Collected air bag samples. Extended piping connected to manual dilution valve by approximately 2 vertical feet.		
4/1/2015	DNREC-SIRS onsite. Collected air bag samples.		
4/6/2015	Collected air bag influent and ambient samples.		
4/13/2015	Turned system off due to potential emissions exceeding 2.4 lbs/day based on laboratory data. Closed recirculation valve and opened manual dilution valve 30%. System off upon departure.		
4/14/2015	Filled catalyst port. System off upon departure.		
4/15/2015	Turned system on.		
4/20/2015	System off upon arrival due to high water level in knockout drum. System off upon departure.		
4/21/2015	Drained water knockout drum and restarted system.		
4/23/2015	System running successfully.		
4/27/2015	System off upon arrival due to high water level in knockout drum. Drained water from knockout drum and restarted system.		
4/28/2015	Collected influent, effluent, and ambient air bag samples.		
5/4/2015	System off upon arrival due to high water level in knockout drum. Drained water from knockout drum and restarted system.		
5/7/2015	Collected air bag samples. Closed manual dilution valve.		
5/11/2015	System off upon arrival due to high water level in knockout drum. Drained water knockout drum and turned system on. System shut off while onsite due to high water level. Drained water knockout from drum and restarted system. System running upon departure.		
5/14/2015	System off upon arrival due to high water level in knockout drum. Drained water from knockout drum and restarted system.		



Inspection Dates:	Significant Notes:
5/15/2015	System off upon arrival due to high water level in knockout drum. Opened manual dilution valve 70%. Drained water from knockout drum and restarted system.
5/18/2015	System on upon arrival. Turned off system to drain water from knockout drum and restarted system.
5/19/2015	Collected air bag samples.
5/26/2015	System running successfully.
6/1/2015	System running successfully.
6/8/2015	Closed manual dilution valve from 70% to 50% open after system check.
6/15/2015	System running successfully.
6/16/2015	Collected air bag samples.
6/22/2015	System running successfully.
6/29/2015	System running successfully.

2.3 <u>Compliance</u>

Air samples were collected from the system to evaluate the efficiency of the system. Although air samples are only required on a monthly basis, additional samples were collected to avoid emissions exceedances and ensure compliance with the air permit waiver. Grab air samples were collected during system operations at the influent (pre-treatment) and at the effluent to the catalytic oxidizer (post-treatment) using one liter Tedlar[®] bags. Influent samples provided information pertaining to the mass extraction of hydrocarbons of subsurface soil vapor, and the effluent samples provided information regarding the efficiency of the catalytic oxidizer destruction of the contaminants, prior to their discharge to the atmosphere. All air samples were submitted to Eurofins Scientific in Lancaster, Pennsylvania for analysis using Environmental Protection Agency (EPA) Method TO-18. Raw mass loading/emission estimates and analytical data for each air bag sample collected are provided in Appendix I and Appendix J, respectively.

Based on the analytical data and data collected during the site visits, the effluent discharge estimates for this monitoring period have not exceeded the limit of 0.1 pounds (lbs)/hour or 2.4 lbs/day (system post treatment).

Table 1 provides the SVE System Monitoring Data summary and Chart 1 displays the estimated hydrocarbon mass removal for the SVE system. The mass removal estimate for this system was approximately 1,189 lbs of petroleum hydrocarbons for this quarter.



3.0 <u>SUMMARY</u>

This Quarterly Monitoring Report documents remediation system operations conducted at the Site from March 30, 2015 through June 29, 2015. During this period, the SVE system was operated for 1,737.8 hours. The system was down intermittently due to high water in the water knockout drum which activated the level switch.

3.1 <u>Estimated Recovery</u>

Based on the monitoring data, the total mass of hydrocarbons removed during this monitoring period from SVE recovery efforts is estimated to be approximately 1,189 lbs.

3.2 Plan for Next Quarter

The remediation effort began in late March 2015; since that date significant quantities of VOCs have been recovered. BrightFields will continue to operate the SVE system and monitor recovery, as required by the permit waiver.



FIGURES





\bullet SVE Extraction Well

SVE Conveyance Piping

SVE Catalytic Oxidizer Unit (housed in shed) Fence

Former Wilmington Assembly Plant Property (DE-1149)

Tax Parcels

××







TABLE

TABLE 1 Soil Vapor Extraction System Monitoring Data Former GM Plant Wilmington, DE

Date	Vacuum	Influent Air Velocity	Influent Air Flow Rate	Influen Concer	t Vapor ntration	Effluent Vapor Concentration		Cat/Ox Operating Temperatures		peratures
Date		Velocity		PID	Lab	PID	Lab	T1	T2	Т3
	("H ₂ O)	(FPM - 3" pipe)	(CFM)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(°C)	(°C)	(°C)
3/30/15	24	5,680	291.97	347.8	-	0.2	-	335	423	408
3/31/15	17	4,910	252.39	242.7	623.7	2.7	22.0	337	411	393
4/1/15	15	2,979	153.13	233.3	596.8	2.3	ND	436	534	509
4/6/15	6	1,634	83.99	15,000**	582.0	2.6	-	368	439	434
4/13/15	4	1,632	83.89	325.0	-	12.2	-	331	381	385
4/14/15	OFF	OFF	OFF	OFF	-	OFF	-	NM	NM	NM
4/15/15	20	NM	216*	191.8	-	1.6	-	330	366	367
4/20/15	OFF	OFF	OFF	OFF	-	OFF	-	NM	NM	NM
4/21/15	20	NM	216*	302.1	-	4.0	-	330	359	361
4/23/15	20.5	NM	223*	NM	-	NM	-	330	345	350
4/27/15	19.5	5,239	269.30	166.3	-	2.9	-	330	347	355
4/28/15	19	4,797	246.58	103.9	95.1	8.5	20.0	330	342	349
5/4/15	19.5	NM	216*	191.1	-	2.5	-	330	347	353
5/7/15	19.5	3,429	176.26	88.0	93.5	18.9	17.0	330	346	347
5/7/15	5 to 13	2,060	105.89	311.8	-	1.3	-	331	348	361
5/11/15	NM	NM	NM	NM	-	NM	-	NM	NM	NM
5/14/15	19.5	NM	216*	299.3	-	3.4	-	330	354	367
5/15/15	38	NM	321*	NM	-	NM	-	332	345	354
5/18/15	22	NM	229*	212.9	-	3.0	-	330	347	351
5/19/15	22	4,544	233.58	134.9	115.1	12.8	12.0	330	345	351
5/26/15	22	NM	229*	167.0	-	3.1	-	330	345	351
6/1/15	22	NM	229*	224.9	-	2.5	-	330	346	351
6/8/15	22	NM	229*	140.4	-	2.0	-	330	342	348
6/15/15	21	NM	223*	127.2	-	1.2	-	330	341	347
6/16/15	21	3,990	205.10	98.1	64.0	2.3	10.0	330	340	347
6/22/15	21	NM	223*	98.8	-	0.8	-	330	340	347
6/29/15	21	NM	300*	80.6	-	0.5	-	330	337	345

Notes :

FPM - feet per minute

CFM - cubic feet per minute

NA - not analyzed

NM - not measured

PID - photoionization detector

ppmv - parts per million by volume

* - Estimated flow rate from blower backpressure based on Falco 300 online calculator.

** - PID meter error

Bold indicates dates in which air bags were collected for laboratory analysis.

Lab vapor concentration is the total VOCs (less methane) detected in the air bag laboratory analysis.

Two readings taken on 5/7/15 due to adjustment of manual dilution valve.



CHART





APPENDICES



APPENDIX A SYSTEM INSPECTION FIELD SHEETS

Name:

Ken Hannon/Kelly Power

Date/Time: <u>3/30/15; 14:15</u>

	SOIL VAPOR EXTRACTION SYSTEM						
	Status	3	Arrival	Departure			
SVE Syste	em		OFF	Started ~12:30			
Alarms			N/A	NONE			
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)			
SVE-01	SVE-01	100	Not Measured	Not Measured			
SVE-02	SVE-02	100	Not Measured	Not Measured			
SVE-03	SVE-03	100	Not Measured	Not Measured			
SVE-04	SVE-04	100	Not Measured	Not Measured			
SVE-05	SVE-05	100	Not Measured	Not Measured			
SVE-06	SVE-06	100	Not Measured	Not Measured			
Tag ID		Additional Da	ta	Reading			
EFF	Cat/Ox Efflue	nt Velocity (fpm)		5,280			
EFF	Cat/Ox Efflue	nt PID (ppm)		0.2			
INF	Cat/Ox Influe	nt Velocity (fpm)		5,680			
INF	Cat/Ox Influe	nt PID (ppm)		347.8			
	Cat/Ox Run T	ime (hours)		10.0			
T1	Cat/Ox Temp	erature - T1 (°C)		335			
T2	Cat/Ox Temp	erature - T2 (°C)		423			
Т3	Cat/Ox Temp	erature - T3 (°C)		408			
MV	Manual Valve	Percentage Open		0%			
	Recirculation	Valve Percentage	Open	~85%			
VCV	VCV Percenta	age Open		10%			
	Filter Influent	Pressure (inches V	VC)	-20			
	Blower Influer	nt Pressure (inches	WC)	-22			
BP	Blower Backp	pressure (inches W	C)	24			
	Water Level (Check		ABSENT			
	Comple Times:	Influent	Effluent	Laboratory			
Air Bag Sample Times: NONE NONE			NONE	N/A			

Additional Comments/Work Performed:

In shed ambient PID = 0.2 ppm; Need to calibrate Kurz meter; This is the initial

start-up of the system; Cat/Ox run time hours were 8.2 when shipped from factory

Name:

Kelly Power

Date/Time: <u>3/31/15; 10:40</u>

	SOIL VAPOR EXTRACTION SYSTEM						
	Status	5	Arrival	Departure			
SVE Syste	em		ON	ON			
Alarms			NONE	NONE			
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)			
SVE-01	SVE-01	100	5,450	Not Measured			
SVE-02	SVE-02	100	5,420	Not Measured			
SVE-03	SVE-03	100	5,380	Not Measured			
SVE-04	SVE-04	100	5,340	Not Measured			
SVE-05	SVE-05	100	5,280	Not Measured			
SVE-06	SVE-06	100	5,300	Not Measured			
Tag ID		Additional Da	ta	Reading			
EFF	Cat/Ox Efflue	nt Velocity (fpm)		4,650			
EFF	Cat/Ox Efflue	nt PID (ppm)		2.7			
INF	Cat/Ox Influe	nt Velocity (fpm)		4,910			
INF	Cat/Ox Influe	nt PID (ppm)		242.7			
	Cat/Ox Run T	ime (hours)		30.4			
T1	Cat/Ox Temp	erature - T1 (°C)		337			
T2	Cat/Ox Temp	erature - T2 (°C)		411			
Т3	Cat/Ox Temp	erature - T3 (°C)		393			
MV	Manual Valve	Percentage Open		0%			
	Recirculation	Valve Percentage	Open	~85%			
VCV	VCV Percenta	age Open		~70%			
	Filter Influent	Pressure (inches V	VC)	-30			
	Blower Influe	nt Pressure (inches	WC)	-33			
BP	Blower Backp	pressure (inches W	C)	17			
	Water Level (Check		ABSENT			
	Comple Times:	Influent	Effluent	Laboratory			
All Day 3	ample rimes.	11:12	10:58	Lanc Labs			

Additional Comments/Work Performed:

Continued issues with Kurz meter; Extended piping connected to manual

dilution valve by approximately 2 ft vertically

Name:

Kelly Power

Date/Time: 4/1/15; 10:50

	SOIL VAPOR EXTRACTION SYSTEM						
	Status	5	Arrival	Departure			
SVE Syste	em		ON	ON			
Alarms			NONE	NONE			
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)			
SVE-01	SVE-01	100	1,324	Not Measured			
SVE-02	SVE-02	100	1,768	Not Measured			
SVE-03	SVE-03	100	1,413	Not Measured			
SVE-04	SVE-04	100	1,343	Not Measured			
SVE-05	SVE-05	100	1,433	Not Measured			
SVE-06	SVE-06	100	1,185	Not Measured			
Tag ID		Additional Da	ta	Reading			
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,454			
EFF	Cat/Ox Efflue	nt PID (ppm)		2.3			
INF	Cat/Ox Influe	nt Velocity (fpm)		2,979			
INF	Cat/Ox Influe	nt PID (ppm)		233.3			
	Cat/Ox Run T	ïme (hours)		54.9			
T1	Cat/Ox Temp	erature - T1 (°C)		436			
T2	Cat/Ox Temp	erature - T2 (°C)		534			
Т3	Cat/Ox Temp	erature - T3 (°C)		509			
MV	Manual Valve	Percentage Open		0%			
	Recirculation	Valve Percentage	Open	~85%			
VCV	VCV Percenta	age Open		~70%			
	Filter Influent	Pressure (inches V	VC)	-40			
	Blower Influer	nt Pressure (inches	WC)	-40			
BP	Blower Backp	pressure (inches W	C)	15			
	Water Level 0	Check		ABSENT			
	Comple Times:	Influent	Effluent	Laboratory			
All bay S	ample rimes.	11:08	10:52	Lanc Labs			

Additional Comments/Work Performed:

DNREC onsite; Took sound level readings with Quest SoundPro SE/DL-1

Inside shed = 82.6 dB, Inside fence along Dodson Ave = 54.4 dB,

Across Dodson Ave = 50.8 dB

Name:

Kelly Power

Date/Time: 4/6/15; 09:45

	SOIL VAPOR EXTRACTION SYSTEM						
	Status	3	Arrival	Departure			
SVE Syste	em		ON	ON			
Alarms			NONE	NONE			
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)			
SVE-01	SVE-01	100	1,427	Not Measured			
SVE-02	SVE-02	100	1,702	Not Measured			
SVE-03	SVE-03	100	1,561	Not Measured			
SVE-04	SVE-04	100	1,339	Not Measured			
SVE-05	SVE-05	100	1,081	Not Measured			
SVE-06	SVE-06	100	935	Not Measured			
Tag ID		Additional Da	ta	Reading			
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,030			
EFF	Cat/Ox Efflue	nt PID (ppm)		2.6			
INF	Cat/Ox Influe	nt Velocity (fpm)		1,634			
INF	Cat/Ox Influe	nt PID (ppm)		15,000			
	Cat/Ox Run T	ime (hours)		173.5			
T1	Cat/Ox Temp	erature - T1 (°C)		368			
T2	Cat/Ox Temp	erature - T2 (°C)		439			
Т3	Cat/Ox Temp	erature - T3 (°C)		434			
MV	Manual Valve	Percentage Open		0%			
	Recirculation	Valve Percentage	Open	~85%			
VCV	VCV Percent	age Open		~85%			
	Filter Influent	Pressure (inches V	VC)	-58			
	Blower Influer	nt Pressure (inches	WC)	-55			
BP	Blower Backp	pressure (inches W	C)	6			
	Water Level (Check		ABSENT			
	Comple Times:	Influent	Effluent	Laboratory			
All Day 3	ample rimes.	10:25	NONE	Lanc Labs			

Additional Comments/Work Performed:

Collected ambient air sample about 1 ft from door inside shed at 10:02,

PID = 63.0 ppm; Ambient PID in shed = 0.4 ppm; Did not collect effluent

sample due to high ambient air sample PID (could be due to geotech tubing)

Name:

Kelly Power

Date/Time: 4/13/15; 14:32

	SOIL VAPOR EXTRACTION SYSTEM						
	Status	3	Arrival	Departure			
SVE Syst	em		ON	OFF			
Alarms			NONE	N/A			
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)			
SVE-01	SVE-01	100	Not Measured	Not Measured			
SVE-02	SVE-02	100	Not Measured	Not Measured			
SVE-03	SVE-03	100	Not Measured	Not Measured			
SVE-04	SVE-04	100	Not Measured	Not Measured			
SVE-05	SVE-05	100	Not Measured	Not Measured			
SVE-06	SVE-06	100	Not Measured	Not Measured			
Tag ID		Additional Da	ta	Reading			
EFF	Cat/Ox Efflue	nt Velocity (fpm)		644			
EFF	Cat/Ox Efflue	nt PID (ppm)		12.2			
INF	Cat/Ox Influe	nt Velocity (fpm)		1,632			
INF	Cat/Ox Influe	nt PID (ppm)		325			
	Cat/Ox Run 1	īme (hours)		346.4			
T1	Cat/Ox Temp	erature - T1 (°C)		331			
T2	Cat/Ox Temp	erature - T2 (°C)		381			
Т3	Cat/Ox Temp	erature - T3 (°C)		385			
MV	Manual Valve	Percentage Open		0%			
	Recirculation	Valve Percentage	Open	~85%			
VCV	VCV Percent	age Open		90%			
	Filter Influent	-63					
	Blower Influe	-60					
BP	Blower Backp	pressure (inches W	C)	4			
	Water Level	Check		ABSENT			
Air Bag S	Sample Timos:	Influent	Effluent	Laboratory			
Air Bag Sample Times: NONE			NONE				

Additional Comments/Work Performed:

Turned off system at 14:58 due to potential non-compliant emissions; closed

recirculation value completely and opened manual dilution value to ~30%

Name: Kelly Power / Nick Bradley

Date/Time: 4/14/15; 16:10

SOIL VAPOR EXTRACTION SYSTEM						
	Status Arrival					
SVE Syst	em		OFF	OFF		
Alarms			N/A	N/A		
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)		
SVE-01	SVE-01	100	Not Measured	Not Measured		
SVE-02	SVE-02	100	Not Measured	Not Measured		
SVE-03	SVE-03	100	Not Measured	Not Measured		
SVE-04	SVE-04	100	Not Measured	Not Measured		
SVE-05	SVE-05	100	Not Measured	Not Measured		
SVE-06	SVE-06	100	Not Measured	Not Measured		
Tag ID		Additional Da	ta	Reading		
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured		
EFF	Cat/Ox Efflue	nt PID (ppm)		Not Measured		
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured		
INF	Cat/Ox Influe	nt PID (ppm)		Not Measured		
	Cat/Ox Run T	īme (hours)		Not Measured		
T1	Cat/Ox Temp	erature - T1 (°C)		Not Measured		
T2	Cat/Ox Temp	erature - T2 (°C)		Not Measured		
Т3	Cat/Ox Temp	erature - T3 (°C)		Not Measured		
MV	Manual Valve	Percentage Open		Not Measured		
	Recirculation	Valve Percentage	Open	Not Measured		
VCV	VCV Percent	age Open		Not Measured		
	Filter Influent	Pressure (inches V	VC)	Not Measured		
	Blower Influe	Not Measured				
BP	Blower Backp	pressure (inches W	C)	Not Measured		
	Water Level (Check		ABSENT		
	ample Timos	Influent	Effluent	Laboratory		
All Day C		NONE	NONE			

Additional Comments/Work Performed:

Filled catalyst port and refastened heat guard

Name:

Kelly Power

Date/Time: 4/15/15; 15:48

SOIL VAPOR EXTRACTION SYSTEM						
	Status	3	Arrival	Departure		
SVE Syste	em		OFF	ON		
Alarms			N/A	NONE		
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)		
SVE-01	SVE-01	100	Not Measured	Not Measured		
SVE-02	SVE-02	100	Not Measured	Not Measured		
SVE-03	SVE-03	100	Not Measured	Not Measured		
SVE-04	SVE-04	100	Not Measured	Not Measured		
SVE-05	SVE-05	100	Not Measured	Not Measured		
SVE-06	SVE-06	100	Not Measured	Not Measured		
Tag ID		Additional Da	ta	Reading		
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured		
EFF	Cat/Ox Efflue	nt PID (ppm)		1.6		
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured		
INF	Cat/Ox Influe	nt PID (ppm)		191.8		
	Cat/Ox Run T	ime (hours)		347.4		
T1	Cat/Ox Temp	erature - T1 (°C)		330		
T2	Cat/Ox Temp	erature - T2 (°C)		366		
Т3	Cat/Ox Temp	erature - T3 (°C)		367		
MV	Manual Valve	Percentage Open		30%		
	Recirculation	Valve Percentage	Open	0%		
VCV	VCV Percenta	age Open		95%		
	Filter Influent	Pressure (inches V	VC)	-75		
	Blower Influer	nt Pressure (inches	WC)	-75		
BP	Blower Backp	pressure (inches W	C)	20		
	Water Level (Check		ABSENT		
	ampla Timos:	Influent	Effluent	Laboratory		
All Day 3	ampie rimes.	NONE	NONE			

Additional Comments/Work Performed:

Turned on system at 15:08; T1 reached 330°C at 15:32 (startup complete); Waited for temperature and VCV stabilization prior to performing system check; Estimated flow rate = 216 SCFM based on blower backpressure

(calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 4/20/15; 13:30

SOIL VAPOR EXTRACTION SYSTEM						
	Status Arrival					
SVE Syste	em		OFF	OFF		
Alarms			High Water (70)	High Water (70)		
Tag ID	Location % Open Velocity (fpm)			PID (ppm)		
SVE-01	SVE-01	100	Not Measured	Not Measured		
SVE-02	SVE-02	100	Not Measured	Not Measured		
SVE-03	SVE-03	100	Not Measured	Not Measured		
SVE-04	SVE-04	100	Not Measured	Not Measured		
SVE-05	SVE-05	100	Not Measured	Not Measured		
SVE-06	SVE-06	100	Not Measured	Not Measured		
Tag ID		Additional Da	ta	Reading		
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured		
EFF	Cat/Ox Efflue	nt PID (ppm)		Not Measured		
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured		
INF	Cat/Ox Influe	nt PID (ppm)		Not Measured		
	Cat/Ox Run 1	īme (hours)		Not Measured		
T1	Cat/Ox Temp	erature - T1 (°C)		Not Measured		
T2	Cat/Ox Temp	erature - T2 (°C)		Not Measured		
Т3	Cat/Ox Temp	erature - T3 (°C)		Not Measured		
MV	Manual Valve	Percentage Open		Not Measured		
	Recirculation	Valve Percentage	Open	Not Measured		
VCV	VCV Percent	age Open		Not Measured		
	Filter Influent	Not Measured				
	Blower Influe	Not Measured				
BP	Blower Backp	oressure (inches W	C)	Not Measured		
	Water Level (Check		PRESENT		
Air Bag S	ample Timos:	Influent	Effluent	Laboratory		
Air Bag Sample Times: NONE NONE			NONE			

Additional Comments/Work Performed:

Heavy rain storm this morning; High water level alarm in knock out tank

caused SVE system to turn off (terminal 70 light indicating water knockout

high-level is turned off); Accumulated water observed in shed near stack

Name:

Kelly Power

Date/Time: 4/21/15; 15:00

SOIL VAPOR EXTRACTION SYSTEM				
	Departure			
SVE Syste	ON			
Alarms			High Water (70)	NONE
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)
SVE-01	SVE-01	100	Not Measured	Not Measured
SVE-02	SVE-02	100	Not Measured	Not Measured
SVE-03	SVE-03	100	Not Measured	Not Measured
SVE-04	SVE-04	100	Not Measured	Not Measured
SVE-05	SVE-05	100	Not Measured	Not Measured
SVE-06	SVE-06	100	Not Measured	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured
EFF	Cat/Ox Effluent PID (ppm)			4.0
INF	Cat/Ox Influent Velocity (fpm)			Not Measured
INF	Cat/Ox Influent PID (ppm)			302.1
	Cat/Ox Run Time (hours)			398.0
T1	Cat/Ox Temperature - T1 (°C)			330
T2	Cat/Ox Temperature - T2 (°C)			359
Т3	Cat/Ox Temperature - T3 (°C)			361
MV	Manual Valve Percentage Open			30%
	Recirculation Valve Percentage Open			0%
VCV	VCV Percentage Open			95%
	Filter Influent Pressure (inches WC)			-75
	Blower Influent Pressure (inches WC)			-75
BP	Blower Backpressure (inches WC)			20
Water Level Check				ABSENT
Air Bag Sample Times: Influent Effluent NONE NONE			Laboratory	

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch);
Drained approximately 35 gallons of water from water knockout drum (~25
gals added to previous purged GW drum and ~10 gals added to drum inside
SVE fence); at 14:10 turned on system (run time = 397.3 hrs); at 14:40 T1
reached 330°C (startup complete); performed system check once
temperatures appeared to stabilize; Estimated flow rate = 216 SCFM based
on blower backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 4/23/15; 09:55

SOIL VAPOR EXTRACTION SYSTEM				
Status Arrival				Departure
SVE Syste	ON			
Alarms			NONE	NONE
Tag ID	Location	PID (ppm)		
SVE-01	SVE-01	100	Not Measured	Not Measured
SVE-02	SVE-02	100	Not Measured	Not Measured
SVE-03	SVE-03	100	Not Measured	Not Measured
SVE-04	SVE-04	100	Not Measured	Not Measured
SVE-05	SVE-05	100	Not Measured	Not Measured
SVE-06	SVE-06	100	Not Measured	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured
EFF	Cat/Ox Effluent PID (ppm)			Not Measured
INF	Cat/Ox Influent Velocity (fpm)			Not Measured
INF	Cat/Ox Influent PID (ppm)			Not Measured
	Cat/Ox Run Time (hours)			440.9
T1	Cat/Ox Temperature - T1 (°C)			330
T2	Cat/Ox Temperature - T2 (°C)			345
Т3	Cat/Ox Temperature - T3 (°C)			350
MV	Manual Valve Percentage Open			30%
	Recirculation Valve Percentage Open			0%
VCV	VCV Percentage Open			95%
	Filter Influent Pressure (inches WC)			-75
	Blower Influent Pressure (inches WC)			-75
BP	Blower Backpressure (inches WC)			20.5
	Water Level Check			
Air Bag Sample Times: Influent Effluent			Laboratory	
All Day 5	ample Times.	NONE	NONE	

Additional Comments/Work Performed:

Influent sample flow port diameter = 0.5 inches; Effluent sample port

diameter = 0.375 inches; Estimated flow rate = 223 SCFM based on blower

backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 4/27/15; 13:55

SOIL VAPOR EXTRACTION SYSTEM					
Status Arrival				Departure	
SVE Syste	ON				
Alarms			High Water (70)	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	Out of Range	Not Measured	
SVE-02	SVE-02	100	Out of Range	Not Measured	
SVE-03	SVE-03	100	Out of Range	Not Measured	
SVE-04	SVE-04	100	Out of Range	Not Measured	
SVE-05	SVE-05	100	Out of Range	Not Measured	
SVE-06	SVE-06	100	Out of Range	Not Measured	
Tag ID		Additional Data			
EFF	Cat/Ox Efflue	Cat/Ox Effluent Velocity (fpm)			
EFF	Cat/Ox Effluent PID (ppm)			2.9	
INF	Cat/Ox Influent Velocity (fpm)			5,239	
INF	Cat/Ox Influent PID (ppm)			166.3	
	Cat/Ox Run Time (hours)			476.7	
T1	Cat/Ox Temperature - T1 (°C)			330	
T2	Cat/Ox Temperature - T2 (°C)			347	
Т3	Cat/Ox Temperature - T3 (°C)			355	
MV	Manual Valve Percentage Open			30%	
	Recirculation Valve Percentage Open			0%	
VCV	VCV Percentage Open			95%	
	Filter Influent Pressure (inches WC)			-75	
	Blower Influent Pressure (inches WC)			-75	
BP	Blower Backpressure (inches WC)			19.5	
	Water Level Check			ABSENT	
Air Bog Sample Times: Influent Effluent			Laboratory		
All Day 0	ample Times.	NONE	NONE		

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch);

Drained water knockout drum; Started system at 13:10; System startup

complete at 13:40; Performed system check once temperatures appeared to

stabilize

Name:

Kelly Power

Date/Time: 4/28/15; 14:08

SOIL VAPOR EXTRACTION SYSTEM				
Status Arrival				Departure
SVE Syste	ON			
Alarms			NONE	NONE
Tag ID	Location	PID (ppm)		
SVE-01	SVE-01	100	Out of Range	Not Measured
SVE-02	SVE-02	100	Out of Range	Not Measured
SVE-03	SVE-03	100	Out of Range	Not Measured
SVE-04	SVE-04	100	Out of Range	Not Measured
SVE-05	SVE-05	100	Out of Range	Not Measured
SVE-06	SVE-06	100	Out of Range	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,930
EFF	Cat/Ox Effluent PID (ppm)			8.5
INF	Cat/Ox Influent Velocity (fpm)			4,797
INF	Cat/Ox Influent PID (ppm)			103.9
	Cat/Ox Run Time (hours)			500.8
T1	Cat/Ox Temperature - T1 (°C)			330
T2	Cat/Ox Temperature - T2 (°C)			342
Т3	Cat/Ox Temperature - T3 (°C)			349
MV	Manual Valve Percentage Open			30%
	Recirculation Valve Percentage Open			0%
VCV	VCV Percentage Open			95%
	Filter Influent Pressure (inches WC)			-75
	Blower Influent Pressure (inches WC)			-75
BP	Blower Backpressure (inches WC)			19
	Water Level Check			
Air Rag Sample Times: Influent			Effluent	Laboratory
All Day 3	ample Times.	14:30	14:20	Lanc Labs

Additional Comments/Work Performed:

Collected ambient air sample at ~4 ft above ground at 14:10; PID from

ambient air tedlar bag = 7.6 ppm (PID = 0.1 ppm in shed ambient air)

Name:

Kelly Power

Date/Time: <u>5/4/15; 15:10</u>

SOIL VAPOR EXTRACTION SYSTEM				
	Departure			
SVE Syste	OFF	ON		
Alarms			High Water (70)	NONE
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)
SVE-01	SVE-01	100	Not Measured	Not Measured
SVE-02	SVE-02	100	Not Measured	Not Measured
SVE-03	SVE-03	100	Not Measured	Not Measured
SVE-04	SVE-04	100	Not Measured	Not Measured
SVE-05	SVE-05	100	Not Measured	Not Measured
SVE-06	SVE-06	100	Not Measured	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured
EFF	Cat/Ox Effluent PID (ppm)			2.5
INF	Cat/Ox Influent Velocity (fpm)			Not Measured
INF	Cat/Ox Influent PID (ppm)			191.1
	Cat/Ox Run Time (hours)			593.0
T1	Cat/Ox Temperature - T1 (°C)			330
T2	Cat/Ox Temperature - T2 (°C)			347
Т3	Cat/Ox Temp	Cat/Ox Temperature - T3 (°C)		
MV	Manual Valve Percentage Open			30%
	Recirculation Valve Percentage Open			0%
VCV	VCV Percenta	age Open		95%
	Filter Influent Pressure (inches WC)			-75
	Blower Influer	nt Pressure (inches	WC)	-75
BP	Blower Backp	pressure (inches W	C)	19.5
	Water Level Check			
	Air Des Comple Times Influent Effluent			
NONE NONE				

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch) and run time = 592.2 hrs; Drained water knockout drum; Started system at 14:15; System startup complete at 14:44; Estimated flow rate = 216 SCFM based on blower backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: <u>5/7/15; 13:05</u>

SOIL VAPOR EXTRACTION SYSTEM					
	Departure				
SVE Syst					
Alarms			NONE	-	
Tag ID	Location	Location % Open Velocity (fpm			
SVE-01	SVE-01	100	Out of Range	Not Measured	
SVE-02	SVE-02	100	Out of Range	Not Measured	
SVE-03	SVE-03	100	Out of Range	Not Measured	
SVE-04	SVE-04	100	Out of Range	Not Measured	
SVE-05	SVE-05	100	Out of Range	Not Measured	
SVE-06	SVE-06	100	Out of Range	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,625	
EFF	Cat/Ox Efflue	Cat/Ox Effluent PID (ppm)			
INF	Cat/Ox Influe	Cat/Ox Influent Velocity (fpm)			
INF	Cat/Ox Influe	nt PID (ppm)		88.0	
	Cat/Ox Run Time (hours)			663.0	
T1	Cat/Ox Temperature - T1 (°C)			330	
T2	Cat/Ox Temperature - T2 (°C)			346	
Т3	Cat/Ox Temp	Cat/Ox Temperature - T3 (°C)			
MV	Manual Valve	Manual Valve Percentage Open			
	Recirculation	Recirculation Valve Percentage Open			
VCV	VCV Percent	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-75	
	Blower Influer	nt Pressure (inches	WC)	-75	
BP	Blower Backp	pressure (inches W	C)	19.5	
	Water Level (Check		ABSENT	
Air Bog S	Air Des Comple Times: Influent Effluent				
All bag Sample Times. 13:20			13:10	Lanc Labs	

Additional Comments/Work Performed:

Purged tubing prior to collecting effluent and influent samples; After completing system check/sampling turned system off at 13:35 to close manual valve and restarted system; Checked water level at 14:20 and system turned off; Drained ~20 gals water from water knockout drum and restarted system; Stayed onsite to perform system check after system stabilization

Name:

Kelly Power

Date/Time: <u>5/7/15; 15:15</u>

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Departure				
SVE Syste	ON				
Alarms			-	NONE	
Tag ID	Location	Location % Open Velocity (fpm)			
SVE-01	SVE-01	100	Out of Range	Not Measured	
SVE-02	SVE-02	100	Out of Range	Not Measured	
SVE-03	SVE-03	100	Out of Range	Not Measured	
SVE-04	SVE-04	100	Out of Range	Not Measured	
SVE-05	SVE-05	100	Out of Range	Not Measured	
SVE-06	SVE-06	100	Out of Range	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,190	
EFF	Cat/Ox Efflue	Cat/Ox Effluent PID (ppm)			
INF	Cat/Ox Influent Velocity (fpm)			2,060	
INF	Cat/Ox Influe	Cat/Ox Influent PID (ppm)			
	Cat/Ox Run Time (hours)			664.5	
T1	Cat/Ox Temperature - T1 (°C)			331	
T2	Cat/Ox Temperature - T2 (°C)			348	
Т3	Cat/Ox Temperature - T3 (°C)			361	
MV	Manual Valve	Manual Valve Percentage Open			
	Recirculation	Recirculation Valve Percentage Open			
VCV	VCV Percent	age Open		95%	
	Filter Influent Pressure (inches WC)			-95 to -105	
	Blower Influe	nt Pressure (inches	WC)	-95 to -100	
BP	Blower Backp	pressure (inches W	C)	5 to 13	
	Water Level (Check		ABSENT	
	Air Das Cample Timere Influent Effluent				
NONE NONE					

Additional Comments/Work Performed:

Collected air bag samples and performed system check at 13:05 prior to shutting down system and closing manual dilution valve; Restarted system and allowed

temperatures to stabilize prior to performing system check
Name:

Kelly Power

Date/Time: <u>5/11/15; 15:38</u>

	SOIL	. VAPOR EXTRA	CTION SYSTEM		
	Status	3	Arrival	Departure	
SVE Syst	em		OFF	ON	
Alarms			High Water (70)	NONE	
Tag ID	Location	Location % Open Velocity (fpm)			
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		Not Measured	
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influe	nt PID (ppm)		Not Measured	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	erature - T1 (°C)		Not Measured	
T2	Cat/Ox Temp	erature - T2 (°C)		Not Measured	
Т3	Cat/Ox Temp	erature - T3 (°C)		Not Measured	
MV	Manual Valve	Percentage Open		0%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percent	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-95 to -100	
	Blower Influe	nt Pressure (inches	WC)	-95 to -100	
BP	Blower Backp	pressure (inches W	C)	Not Measured	
	Water Level (Check		PRESENT	
	Semple Times	Influent	Effluent	Laboratory	
All bay S	sample rimes.				

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch) and run time = 665.1 hrs; Drained water knockout drum (~35 gals); Started system at 14:40; System startup complete at 15:07; System shut off when opening water knockout valve during system check (run time = 666.0 hrs); Drained ~30 gals from water knockout drum; Restarted system at 16:10; System startup complete at 16:14

Name:

Kelly Power

Date/Time: 5/14/15; 12:20

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status Arrival				
SVE Syste	em	OFF	ON		
Alarms			High Water (70)	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		3.4	
INF	Cat/Ox Influer	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influer	nt PID (ppm)		299.3	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	erature - T1 (°C)		330	
T2	Cat/Ox Temp	erature - T2 (°C)		354	
Т3	Cat/Ox Temp	erature - T3 (°C)		367	
MV	Manual Valve	Percentage Open		0%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percenta	age Open		80%	
	Filter Influent Pressure (inches WC)			-75	
	Blower Influer	nt Pressure (inches	WC)	-75	
BP	Blower Backp	vressure (inches W	C)	19.5	
	Water Level C	Check		ABSENT	
Air Bag S	ample Times:	Influent	Effluent	Laboratory	
NONE NONE					

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch) and
run time = 667.1 hrs; Drained water knockout drum (~35 gals); System
startup complete at 11:10; Turned off system to measure depth to water in
SVE wells at 11:22; Drained ~5 gals water from knockout drum; Restarted
system at 11:50; System startup complete at 11:55; Estimated flow rate =
216 SCFM based on blower backpressure (calculated using Falco 300 online
calculator)

Name:

Kelly Power

Date/Time: <u>5/15/15; 12:00</u>

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status	5	Arrival	Departure	
SVE Syst	em		OFF	ON	
Alarms			High Water (70)	NONE	
Tag ID	Location	Location % Open Velocity (fpm)			
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		Not Measured	
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influe	nt PID (ppm)		Not Measured	
	Cat/Ox Run T	ime (hours)		669.0	
T1	Cat/Ox Temp	erature - T1 (°C)		332	
T2	Cat/Ox Temp	erature - T2 (°C)		345	
Т3	Cat/Ox Temp	erature - T3 (°C)		354	
MV	Manual Valve	Percentage Open		70%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percent	age Open		80%	
	Filter Influent	Pressure (inches V	VC)	-50	
	Blower Influe	nt Pressure (inches	WC)	-55	
BP	Blower Backp	pressure (inches W	C)	38	
	Water Level (Check		ABSENT	
	Sampla Timos:	Influent	Effluent	Laboratory	
NONE NONE					

Additional Comments/Work Performed:

Terminal 70 light turned off upon arrival (water knockout high-level switch) and run time = 668.6 hrs; Drained water knockout drum (~35 gals); Restarted system at 11:36; Startup complete at 11:54; System not yet stabilized at 12:00 for system check; Estimated flow rate = 321 SCFM based on blower backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 5/18/15; 10:08

	SOIL	. VAPOR EXTRA	CTION SYSTEM		
	Status	3	Arrival	Departure	
SVE System			ON	ON	
Alarms			NONE	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		3.0	
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influe	nt PID (ppm)		212.9	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	erature - T1 (°C)		330	
T2	Cat/Ox Temp	erature - T2 (°C)		347	
Т3	Cat/Ox Temp	erature - T3 (°C)		351	
MV	Manual Valve	Percentage Open		70%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percent	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-65	
	Blower Influe	nt Pressure (inches	WC)	-65	
BP	Blower Backp	pressure (inches W	C)	22	
	Water Level (Check		ABSENT	
	Sampla Timos:	Influent	Effluent	Laboratory	
All Day C	NONE NONE				

Additional Comments/Work Performed:

Shut off system after performing system check to drain water knockout drum

(drained ~2 gals water); Restarted system at 10:23 and startup complete

(T1 = 332); Estimated flow rate = 229 SCFM based on blower backpressure

(calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: <u>5/19/15; 11:32</u>

	SOIL	. VAPOR EXTRA	CTION SYSTEM		
	Status	3	Arrival	Departure	
SVE Syst	em	ON	ON		
Alarms			NONE	NONE	
Tag ID	Location	Location % Open Velocity (fpm)			
SVE-01	SVE-01	100	524	Not Measured	
SVE-02	SVE-02	100	738	Not Measured	
SVE-03	SVE-03	100	420	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	590	Not Measured	
SVE-06	SVE-06	100	570	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		2,039	
EFF	Cat/Ox Efflue	nt PID (ppm)		12.8	
INF	Cat/Ox Influe	nt Velocity (fpm)		4,544	
INF	Cat/Ox Influe	nt PID (ppm)		134.9	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	erature - T1 (°C)		330	
T2	Cat/Ox Temp	erature - T2 (°C)		345	
Т3	Cat/Ox Temp	erature - T3 (°C)		351	
MV	Manual Valve	Percentage Open		70%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percent	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-67.5	
	Blower Influe	nt Pressure (inches	WC)	-67.5	
BP	Blower Backp	pressure (inches W	C)	22	
	Water Level (Check		ABSENT	
	Comple Times:	Influent	Effluent	Laboratory	
All Day C	Ir Bag Sample Times: 11:45 11:35				

Additional Comments/Work Performed:

Could not check velocity for SVE-04 due to stuck bolt on sample port; Shut off system after performing system check to drain water knockout drum but no water present; Startup complete at 12:19 (T1 = 345); Estimated flow rate = 229 SCFM based on blower backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 5/26/15; 09:55

	SOIL	VAPOR EXTRA	CTION SYSTEM	
	Status	3	Arrival	Departure
SVE Syste	em		ON	ON
Alarms			NONE	NONE
Tag ID	Location	Location % Open Velocity (fpm)		
SVE-01	SVE-01	100	Not Measured	Not Measured
SVE-02	SVE-02	100	Not Measured	Not Measured
SVE-03	SVE-03	100	Not Measured	Not Measured
SVE-04	SVE-04	100	Not Measured	Not Measured
SVE-05	SVE-05	100	Not Measured	Not Measured
SVE-06	SVE-06	100	Not Measured	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured
EFF	Cat/Ox Efflue	Cat/Ox Effluent PID (ppm)		
INF	Cat/Ox Influent Velocity (fpm)			Not Measured
INF	Cat/Ox Influe	nt PID (ppm)		167.0
	Cat/Ox Run 1	930.6		
T1	Cat/Ox Temp	erature - T1 (°C)		330
T2	Cat/Ox Temp	erature - T2 (°C)		345
Т3	Cat/Ox Temp	erature - T3 (°C)		351
MV	Manual Valve	Percentage Open		70%
	Recirculation	Valve Percentage	Open	0%
VCV	VCV Percent	age Open		95%
	Filter Influent Pressure (inches WC)			-67.5
	Blower Influent Pressure (inches WC)			-67.5
BP	Blower Backp	oressure (inches W	C)	22
	Water Level (Check		ABSENT
		Influent	Effluent	Laboratory
NONE NONE				

Additional Comments/Work Performed:

Shut off system after performing system check to drain water knockout drum but no water present; Startup complete at 10:06; Estimated flow rate = 229 SCFM based on blower backpressure (calculated using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 6/1/15; 11:58

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status	3	Arrival	Departure	
SVE Syst	em		ON	ON	
Alarms			NONE	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		2.5	
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influe	nt PID (ppm)		224.9	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	erature - T1 (°C)		330	
T2	Cat/Ox Temp	erature - T2 (°C)		346	
Т3	Cat/Ox Temp	erature - T3 (°C)		351	
MV	Manual Valve	Percentage Open		70%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percenta	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-65	
	Blower Influer	nt Pressure (inches	WC)	-65	
BP	Blower Backp	pressure (inches W	C)	22	
	Water Level (Check		ABSENT	
	Comple Times:	Influent	Effluent	Laboratory	
All Day C	sample rimes.	FIELD SCRN			

Additional Comments/Work Performed:

Turned off system at 12:02 to check water level; Startup complete at 12:09;

Estimated flow rate = 229 SCFM based on blower backpressure (calculated

using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 6/8/15; 13:25

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status Arrival				
SVE Syst	ON				
Alarms			NONE	NONE	
Tag ID	Location	Location % Open Velocity (fpm)			
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	Cat/Ox Effluent PID (ppm)			
INF	Cat/Ox Influe	Cat/Ox Influent Velocity (fpm)			
INF	Cat/Ox Influe	nt PID (ppm)		140.4	
	Cat/Ox Run 1	1,245.9			
T1	Cat/Ox Temp	Cat/Ox Temperature - T1 (°C)			
T2	Cat/Ox Temp	erature - T2 (°C)		342	
Т3	Cat/Ox Temp	erature - T3 (°C)		348	
MV	Manual Valve	Percentage Open		70%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percent	age Open		95%	
	Filter Influent Pressure (inches WC)			-67	
	Blower Influe	nt Pressure (inches	WC)	-67	
BP	Blower Backp	pressure (inches W	C)	22	
	Water Level (Check		ABSENT	
Air Bog S		Influent	Effluent	Laboratory	
NONE NONE					

Additional Comments/Work Performed:

Turned off system at 13:30 to check water level; Turned manual dilution valve

to ~50% after system check; Startup complete at 13:43; Estimated flow

rate = 229 SCFM based on blower backpressure (calculated using Falco 300

online calculator)

Name:

Kelly Power

Date/Time: 6/15/15; 13:20

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status	5	Arrival	Departure	
SVE Syst	em		ON	ON	
Alarms			NONE	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	Not Measured	Not Measured	
SVE-02	SVE-02	100	Not Measured	Not Measured	
SVE-03	SVE-03	100	Not Measured	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	Not Measured	Not Measured	
SVE-06	SVE-06	100	Not Measured	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured	
EFF	Cat/Ox Efflue	nt PID (ppm)		1.2	
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured	
INF	Cat/Ox Influer	nt PID (ppm)		127.2	
	Cat/Ox Run T	Cat/Ox Run Time (hours)			
T1	Cat/Ox Temp	Cat/Ox Temperature - T1 (°C)			
T2	Cat/Ox Temp	erature - T2 (°C)		341	
ТЗ	Cat/Ox Temp	erature - T3 (°C)		347	
MV	Manual Valve	Percentage Open		50%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percenta	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-65	
	Blower Influer	nt Pressure (inches	WC)	-65	
BP	Blower Backp	pressure (inches W	C)	21	
	Water Level (Check		ABSENT	
Air Bog S	Sampla Timos:	Influent	Effluent	Laboratory	
All Day C	sample milles.	FIELD SCRN			

Additional Comments/Work Performed:

Turned off system at 13:24 to check water level; Startup complete at 13:31;

Estimated flow rate = 223 SCFM based on blower backpressure (calculated

using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 6/16/15; 12:20

	SOIL	VAPOR EXTRA	CTION SYSTEM		
	Status Arrival				
SVE Syste	em		ON	ON	
Alarms			NONE	NONE	
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)	
SVE-01	SVE-01	100	392	Not Measured	
SVE-02	SVE-02	100	339	Not Measured	
SVE-03	SVE-03	100	591	Not Measured	
SVE-04	SVE-04	100	Not Measured	Not Measured	
SVE-05	SVE-05	100	310	Not Measured	
SVE-06	SVE-06	100	377	Not Measured	
Tag ID		Additional Da	ta	Reading	
EFF	Cat/Ox Efflue	nt Velocity (fpm)		1,538	
EFF	Cat/Ox Efflue	nt PID (ppm)		2.3	
INF	Cat/Ox Influe	nt Velocity (fpm)		3,990	
INF	Cat/Ox Influe	nt PID (ppm)		98.1	
	Cat/Ox Run T	1,436.4			
T1	Cat/Ox Temp	erature - T1 (°C)		330	
T2	Cat/Ox Temp	erature - T2 (°C)		340	
Т3	Cat/Ox Temp	erature - T3 (°C)		347	
MV	Manual Valve	Percentage Open		50%	
	Recirculation	Valve Percentage	Open	0%	
VCV	VCV Percenta	age Open		95%	
	Filter Influent	Pressure (inches V	VC)	-67	
	Blower Influer	nt Pressure (inches	WC)	-67	
BP	Blower Backp	pressure (inches W	C)	21	
	Water Level (Check		ABSENT	
	Comple Times:	Influent	Effluent	Laboratory	
Air Bag Sample Times: 12:58 12:52				Lanc Labs	

Additional Comments/Work Performed:

Cat/Ox Effluent PID taken directly from tedlar bag = 16.6 ppm; Influent PID

taken directly from tedlar bag = 109.0 ppm; Turned off system at 13:00 to

check water level; Startup complete at 13:07

Name:

Kelly Power

Date/Time: 6/22/15; 10:00

	SOIL	. VAPOR EXTRA	CTION SYSTEM	
	Status	3	Arrival	Departure
SVE Syst	em		ON	ON
Alarms			NONE	NONE
Tag ID	Location	% Open	Velocity (fpm)	PID (ppm)
SVE-01	SVE-01	100	Not Measured	Not Measured
SVE-02	SVE-02	100	Not Measured	Not Measured
SVE-03	SVE-03	100	Not Measured	Not Measured
SVE-04	SVE-04	100	Not Measured	Not Measured
SVE-05	SVE-05	100	Not Measured	Not Measured
SVE-06	SVE-06	100	Not Measured	Not Measured
Tag ID		Additional Da	ta	Reading
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured
EFF	Cat/Ox Efflue	nt PID (ppm)		0.8
INF	Cat/Ox Influe	nt Velocity (fpm)		Not Measured
INF	Cat/Ox Influe	nt PID (ppm)		98.8
	Cat/Ox Run T	ime (hours)		1,577.9
T1	Cat/Ox Temp	erature - T1 (°C)		330
T2	Cat/Ox Temp	erature - T2 (°C)		340
Т3	Cat/Ox Temp	erature - T3 (°C)		347
MV	Manual Valve	Percentage Open		50%
	Recirculation	Valve Percentage	Open	0%
VCV	VCV Percenta	age Open		95%
	Filter Influent	Pressure (inches V	VC)	-70
	Blower Influer	nt Pressure (inches	WC)	-70
BP	Blower Backp	pressure (inches W	C)	21
	Water Level (Check		ABSENT
	Comple Times:	Influent	Effluent	Laboratory
All Day 3	ample rimes.	FIELD SCRN		

Additional Comments/Work Performed:

Turned off system at 10:04 to check water level; Startup complete at 10:10;

Estimated flow rate = 223 SCFM based on blower backpressure (calculated

using Falco 300 online calculator)

Name:

Kelly Power

Date/Time: 6/29/15; 10:10

	SOIL VAPOR EXTRACTION SYSTEM								
	Status	\$	Arrival	Departure					
SVE Syste	em		ON	ON					
Alarms			NONE	NONE					
Tag ID	Location	Location % Open Velocity (fpm)							
SVE-01	SVE-01	100	Not Measured	Not Measured					
SVE-02	SVE-02	100	Not Measured	Not Measured					
SVE-03	SVE-03	100	Not Measured	Not Measured					
SVE-04	SVE-04	100	Not Measured	Not Measured					
SVE-05	SVE-05	100	Not Measured	Not Measured					
SVE-06	SVE-06	100	Not Measured	Not Measured					
Tag ID		Additional Da	ta	Reading					
EFF	Cat/Ox Efflue	nt Velocity (fpm)		Not Measured					
EFF	Cat/Ox Efflue		0.5						
INF	Cat/Ox Influe	Not Measured							
INF	Cat/Ox Influe	Cat/Ox Influent PID (ppm)							
	Cat/Ox Run T	ime (hours)		1,746.0					
T1	Cat/Ox Temp	erature - T1 (°C)		330					
T2	Cat/Ox Temp	erature - T2 (°C)		337					
ТЗ	Cat/Ox Temp	erature - T3 (°C)		345					
MV	Manual Valve	Percentage Open		50%					
	Recirculation	Valve Percentage	Open	0%					
VCV	VCV Percenta	age Open		95%					
	Filter Influent	Pressure (inches V	VC)	-70					
	Blower Influer	nt Pressure (inches	WC)	-70					
BP	Blower Backp	pressure (inches W	C)	21					
	Water Level (Check		ABSENT					
	Comple Times:	Influent	Effluent	Laboratory					
All Day C	ample miles.	10:14	10:12	FIELD SCRN					

Additional Comments/Work Performed:

Turned off system at 10:15 to check water level; Startup complete at 10:21;

Estimated flow rate = 300 SCFM based on blower backpressure (calculated

using Falco 300 online calculator)

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX B PERMIT WAIVER



STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENTAL CONTROL DIVISION OF AIR & WASTE MANAGEMENT 715 GRANTHAM LANE NEW CASTLE, DELAWARE 19720

AIR QUALITY MANAGEMENT SECTION TELEPHONE: (302) 323 - 4542 FAX NO.: (302) 323 - 4598

March 23, 2015

Brightfields Inc. 801 Industrial Street Wilmington, Delaware 19801

ATTENTION: Ken Hannon Engineering Program Manager

UST Facility ID#: 3-000541 LUST Project ID #: N8708035

SUBJECT: Former GM Plant 801 Boxwood Road, Wilmington, DE 19804 SVE System, Dodson Avenue

Dear Mr. Hannon:

This is in reference to the information in your submission dated December 29, 2014, in which you requested, on behalf of Brightfields Inc., the Department's permission to operate a Soil Vapor Extraction system for the owner, Racer Trust, controlled by thermal incineration with controlled rate located at the Former GM Plant at 801 Boxwood Road, Newport, Delaware 19804.

In the Department's opinion, the air contaminant emissions from this proposed source have little or no potential to cause a condition of air pollution; therefore, since this equipment will emit less than 0.1 pounds per hour and 2.4 pounds per day, permits for installation and operation are not required as long as the said equipment is operating as described on Form AQM-12 dated December 29, 2014 and signed by Pamela Barnett.

When the system is placed in operation, the owner or operator shall immediately fine-tune the system components based upon inlet Volatile Organic Compound (VOC) concentrations to ensure that VOC emissions do not exceed the emission limit of 0.1 pounds per hour and 2.4 pounds per day.

The owner or operator shall, at a minimum, perform system monitoring as follows:

- Field samples from the influent and effluent shall be collected and field screened using a PID at least twice a month.
- Influent and effluent samples shall be collected for laboratory analysis on a monthly basis. These
 samples shall be tested for benzene, toluene, ethylbenzene, and xylenes (BTEX), Total Petroleum
 Hydrocarbons (TPH) C₁-C₄, and TPH C₅-C₁₀ using Reference Method 18.

The following information shall be recorded, initialed, and maintained in a log book:

MAR 3 0 2015

BY:

Monthly VOC concentrations and inlet gas flow rate;

Delaware's good nature depends on you!

PRINTED ON RECYCLED PAPER Brightfields Inc. 801 Industrial Street Wilmington, Delaware 19801 Former GM Plant, 801 Boxwood Road Permit Waiver March 23, 2015 Page 2

- The date, time and results of each field analysis;
- The date, time collected, and results of each laboratory analysis;
- The date, type of work, and reason for any maintenance performed on the equipment;
- · Calculated thermal destruction efficiencies based upon the monitoring results; and
- Inlet gas flow proportioning adjustments required to avoid exceedance of the 0.1 pound per hour and 2.4 pounds per day VOC emission limit.

All air monitoring results from the process shall be forwarded to the Department's Underground Storage Tank Branch and the Site Investigation and Restoration Branch (SIRB) on a quarterly basis as part of the normal report to that Branch. Reference UST Facility ID # **3-000541** and LUST Project ID# **N8708035** when submitting these results.

If any change in operation is necessary (i.e. emission rates, flow rates, etc.) to the above equipment, the Department's Air Quality Management, Site Investigation And Restoration and Underground Storage Tank Branches shall be notified, in writing, two (2) weeks prior to commencement of operation of this equipment.

If, at any time, the above equipment fails to meet the requirements of Regulation No. 2, Section 2.1(a), either by exceeding the emission limitation of 2.4 pounds per day on a site-wide basis or by causing a condition of air pollution, then operation of said equipment shall be immediately discontinued and shall be reported to the Department via the Emergency Notification and Complaint Hotline (1-800-662-8802). The equipment shall remain inactive until the necessary permits have been issued or the problem has been resolved to the satisfaction of the Department.

Sincerely,

Everett L. DeWhitt, Jr., PhD. Environmental Engineer Engineering & Compliance Branch

PEF F:\EngAndCompliance\eld15013

pc: Dover File Paul E. Foster, P.E. Rick Galloway, P.G. Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX C GEOPROBE[®] BORING LOGS



GEOPROBE[®] DRILLING LOG **BORING ID: GM-SVE01**

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 40s, cloudy, low winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland

Project No.: 2734.04.51 Drilling Date(s): 12/17/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 15.6 Logged By: Kelly Power

Time	Tube	Depth	Recovery	(feet)	Reading	Moisture	Soil	Soil Description
	From	То	(feet)	From To	(ppm)		Class	
1045	0	5	2.7	0 - 0.3	0.0	Moist	Silt & Sand	Dark brown silt and fine to coarse sand
1047				0.3 - 2.7	0.1	Moist	Ciaw	Medium brown clay, some silt
1050	5	10	4.8	5.0 - 6.1	0.0	Moist	Ulay	Medium brown clay, some silt
1052				6.1 - 6.2	0.0	Moist	Gravel	Coarse angular gravel
1053				6.2 - 6.9	0.0	Moist	M Sand	Medium brown fine to coarse sand, some silt, little clay
1055				6.9 - 8.5	0.0	Moist		Medium brown clay, little silt, trace fine to coarse sand
1102				8.5 - 9.8	0.0	Moist		Medium brown and gray clay, little silt and fine to coarse sand, trace medium round gravel
1104	10	15	4.8	10.0 - 10.3	0.0	Moist	<u> Ĉiau</u>	Light brown clay, some fine to coarse sand, trace silt
1107				10.3 - 10.6	0.0	Moist	Viay	Medium to light brown clay, some fine to coarse sand, little fine to medium angular gravel from 10.5 to 10.6
1109				10.6 - 11.6	0.0	Moist		Gray clay, trace fine to coarse sand and silt
1111				11.6 - 12.6	0.0	Moist		Light gray clay, some fine to coarse sand, little silt
1113				12.6 - 13.8	0.4	Moist	Clay & Sand	Light brown clay and fine to coarse sand, some fine to medium angular gravel from 13.4 to 13.8
1114				13.8 - 14.4	0.8	Moist	Silt & Sand	Orange brown silt and fine to coarse sand, some fine to medium round gravel
1115				14.4 - 14.5	0.0	Moist	Silt & Clay	Orange silt and clay, little fine to coarse sand
1115				14.5 - 14.8	0.8	Moist	Silt & Sand	Orange brown silt and fine to coarse sand, some fine to medium round gravel
1116	15	20	3.4	15.0 - 15.6	0.1	Moist	Clay	Medium brown clay, little silt, trace fine to coarse sand
1120				15.6 - 15.9	0.1	Wet	Silt & Sand	Medium brown fine to coarse sand and silt, little fine to medium round gravel, slight petroleum-like odor
1122				15.9 - 16.6	0.1	Wet		Orange brown fine to coarse sand, some silt
1123				16.6 - 16.8	0.1	Wet	M Sand	Orange brown fine to coarse sand, some silt and fine to coarse angular gravel
1125				16.8 - 18.4	806	Wet		Medium brown fine to coarse sand, some silt and fine to medium angular gravel, trace clay at 18.1, strong petroleum-like odor
GPS Coo	rdinates:		X= 602387	.2	Y= 629320	.4	Surface Fle	ev: ft Groundwater Flev: ft
Sampling	Data:		GM-SVF01	-S001 collected f	from 16.4 to	0 18 4 at 11	35	
Sampled	Bv:		MWO	2201 001001001				

Modifiers: and:

35% to 50 % 10% to 20% little: some: 20% to 35% trace: <10%



GEOPROBE[®] DRILLING LOG **BORING ID: GM-SVE02**

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 30s, cloudy, low winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland

Project No.: 2734.04.51 Drilling Date(s): 12/19/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 16.0 Logged By: Kelly Power

Time	Tube	Depth	Recovery	(feet)	Reading	Moisture	Soil Class	Soil Description
	From	То	(feet)	From To	(ppm)			
0751	0	5	4.3	0.0 - 3.7	0.0	Moist	Silt	Gray silt, little fine sand, trace clay, trace fine to coarse round gravel from 1.0 to 1.1
0758				3.7 - 4.3	0.0	Moist	Silt & Sand	Medium brown fine to coarse sand and silt, little fine to medium angular gravel and clay
0807	5	10	3.5	5.0 - 5.3	0.0	Moist	Clay	Gray clay, some silt
0811				5.3 - 5.6	0.0	Moist	Silt & Sand	Gray fine to coarse sand and silt, some fine to coarse angular gravel
0816				5.6 - 5.7	0.0	Moist	M Sand	Medium brown fine to coarse sand, some silt, little clay
0819				5.7 - 8.5	0.0	Moist/ Very Moist	Clay & Sand	Orange brown clay and fine to coarse sand, some silt, little fine to medium round gravel, very moist at 6.4
0822	10	15	4.8	10.0 - 11.6	0.1	Moist	Clay	Medium brown to orange brown clay, some fine to coarse sand and silt, trace fine angular gravel
0825				11.6 - 14.5	0.0	Very Moist	Clay &	Orange brown fine to coarse sand and clay, some silt
0827				14.5 - 14.8	0.0	Very Moist	Sand	Gray fine to coarse sand and clay, little silt and fine angular gravel
0838	15	20	4.8	15.0 - 15.2	0.0	Very Moist	M Sand	Medium brown silt and fine to coarse sand, some clay, slight petroleum-like odor
0840				15.2 - 16.9	0.7	Very Moist/ Wet	Clay	Light brown clay, some silt and fine to medium sand, trace fine angular gravel, wet at 16.0, staining at 16.7 to 16.8
0842				16.9 - 17.1	0.0	Wet	Gravel	Coarse angular gravel
0844				17.1 - 17.9	452	Wet		Medium brown fine to coarse sand and silt, little fine to medium round gravel, moderate petroleum-like odor
0846				17.9 - 18.2	66.8	Wet	Silt &	Medium brown fine to coarse sand and silt, some medium to coarse angular gravel, strong petroleum-like odor
0852				18.2 - 18.8	1604	Wet	Sand	Medium brown fine to coarse sand and silt, some fine to coarse round gravel, strong petroleum-like odor
0854				18.8 - 19.0	590	Wet		Medium brown fine to coarse sand and silt, little clay, strong petroleum-like odor
0857				19.0 - 19.8	1308	Wet	M Sand	Gray fine to coarse sand, little silt, trace fine angular gravel and clay
GPS Coo	rdinates:		X= 602376	0	Y= 629280	9	Surface Fle	w ft Groundwater Flev ft
Sampling	Data:		GM-SV/E02		rom 17.8 to	19.8 at 00		
Sampled	Bu:		KEP		101117.010	- 19.0 at 09		
Sampica	ampled By: KEP							

Modifiers:

35% to 50 % and: 20% to 35% some:

little: 10% to 20% trace:



GEOPROBE[®] DRILLING LOG BORING ID: GM-SVE03

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 30s, cloudy, moderate winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland

Project No.: 2734.04.51 Drilling Date(s): 12/18/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 16.2 Logged By: Kelly Power

Time	Plastic	Sample	Core	Depth (foot)	PID	Majatura	Soil	Sail Description
Time	From	То	(feet)	From To	(ppm)	Moisture	Class	Soil Description
1122	0	5	4.7	0.0 - 1.0	0.0	Moist		Gray clay, some fine to coarse sand, trace silt
1128				1.0 - 2.1	0.0	Moist	Clay	Gray clay, some silt, little fine to medium sand, black staining around 1.4, slight petroleum-like odor
1130				2.1 - 3.7	16.9	Moist		Medium brown clay, some silt, little fine to medium sand, trace fine to coarse angular gravel
1133				3.7 - 4.3	260	Moist	Silt	Gray silt, some fine to medium sand and clay, moderate petroleum-like odor
1135				4.3 - 4.7	5.2	Moist	M Sand	Medium brown fine to medium sand, some clay, little silt, moderate petroleum-like odor
1140	5	10	4.4	5.0 - 5.2	0.0	Moist		Gray clay, some fine to medium sand, trace silt
1145				5.2 - 5.9	40.0	Moist	Clay	Medium brown and gray clay, some fine to medium sand, trace silt, black staining around 5.65, moderate petroleum- like odor
1148				5.9 - 6.2	1.8	Moist		Light brown and gray fine to coarse sand, some fine to medium angular gravel, slight petroleum-like odor
1153				6.2 - 9.4	91.7	Very Moist	M Sand	Orange brown fine to coarse sand, some clay and silt, moderate petroleum-like odor
1158	10	15	4.8	10.0 - 12.0	56.9	Very Moist		Orange brown clay and fine to coarse sand, little silt, petroleoum-like odor
1202				12.0 - 12.3	8.1	Very Moist	Clay	Orange brown clay, some fine to medium sand, little silt, slight petroleum-like odor
1204				12.3 - 12.7	20.1	Very Moist	Sand & Gravel	Medium brown fine to medium sand and fine to coarse angular gravel, trace clay, moderate petroleum-like odor
1206				12.7 - 14.0	0.0	Very Moist	Clay	Orange brown clay, some silt, little fine to coarse sand, slight petroleum-like odor
1207				14.0 - 14.2	1042	Very Moist	M Sand	Medium brown to orange brown fine to coarse sand, little silt, trace medium to coarse round gravel, strong petroleum-like odor
1211				14.2 - 14.4	356	Very Moist	in ound	Medium brown to orange brown fine to coarse sand, some fine to coarse angular gravel, little silt, black staining at 14.2, strong petroleum-like odor
1213				14.4 - 14.6	346	Very Moist	Gravel	White fine to coarse angular gravel, some medium to coarse sand, strong petroleum-like odor
1215				14.6 - 14.8	733	Very Moist	Silt & Sand	Medium brown fine to coarse sand and silt, trace clay, strong petroleum-like odor
1224	15	20	4.8	15.0 - 16.1	0.0	Very Moist	Clay	Medium brown clay, some fine to medium sand, little silt
1226				16.1 - 16.4	436	Very Moist/ Wet		Medium brown fine to coarse sand, some silt, trace clay and fine to medium round gravel, strong petroleum-like odor, wet at 16.2
1228				16.4 - 16.9	393	Wet		Medium brown fine to coarse sand, some silt and and fine to coarse round gravel, trace clay, strong petroleum- like odor
1230				16.9 - 17.2	342	Wet	M Sand	Medium brown fine to coarse sand, little clay and silt, strong petroleum-like odor
1232				17.2 - 18.2	532	Wet		Medium brown fine to coarse sand, little silt and fine round gravel, strong petroleum-like odor
1234				18.2 - 19.3	290	Wet		Medium brown fine to coarse sand, some fine to medium round gravel, trace clay, strong petroleum-like odor
1238				19.3 - 19.8	66.0	Wet		Medium brown fine to medium sand, some clay and silt, strong petroleum-like odor
GPS Coo	rdinates:		X= 602365	5.1	Y= 629230).4	Surface Fle	ev; ft Groundwater Elev; ft
Sampling	Data:		GM-SVE0	3-S001 collected	from 12.8 to	o 14.8 at 13	05.	
Somplod	Dv:				1210 0			

Modifiers: and:

35% to 50 % 20% to 35% some:



GEOPROBE[®] DRILLING LOG BORING ID: GM-SVE04

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 40s, cloudy, moderate winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland Project No.: 2734.04.51 Drilling Date(s): 12/17/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 16.3 Logged By: Kelly Power

Time	Tube	Depth	Recovery	(feet)	Reading	Moisture	Soil	Soil Description
	From	То	(feet)	From To	(ppm)		CidSS	
1504	0	5	3.9	0.0 - 2.2	142	Moist	Clay	Gray clay, some silt, black stains from 0.0 to 0.5, some fine to medium angular gravel from 0.5 to 0.6, strong petroleum-like odor
1510				2.2 - 2.5	27.2	Moist	Silt &	Medium brown clay and silt, trace fine to medium round gravel, strong petroleum-like odor
1514				2.5 - 3.9	963	Moist	Clay	Gray clay and silt, trace fine to medium round gravel, strong petroleum-like odor
1519	5	10	4.8	5.0 7.7	382	Moist/ Very Moist	Clay & Sand	Orange brown clay and fine to coarse sand, some silt, very moist at 6.5, strong petroleum-like odor
1524				7.7 - 9.2	342	Very Moist		Orange brown clay, some silt and fine to medium sand, strong petroleum-like odor
1535				9.2 - 9.8	498	Very Moist	Clay	Orange brown clay, some silt, little fine to medium sand, strong petroleum-like odor
1538	10	15	4.8	10.0 - 13.0	282	Very Moist		Light brown and orange brown clay, little silt, trace fine to medium sand, strong petroleum-like odor
1550				13.0 - 13.9	1275	Very Moist	Microsoft	Orange brown fine to medium sand, some silt, little clay, strong petroleum-like odor
1552				13.9 - 14.8	288	Very Moist	w Sand	Orange brown fine to medium sand, some sand, little clay and fine to medium round gravel, strong petroleum-like odor
1557	15	20	4.8	15.0 - 16.1	81.9	Very Moist	Clav	Medium brown clay, some fine to coarse sand, little silt, strong petroleum-like odor
1600				16.1 - 16.3	828	Very Moist		Gray clay, little silt, strong petroleum-like odor
1606				16.3 - 17.9	625	Wet	Silt & Sand	Medium brown fine to coarse sand and silt, some fine to medium round gravel, trace clay, strong petroleum-like odor
1610				17.9 - 18.3	743	Wet		Medium brown fine to medium sand, some silt and clay, strong petroleum-like odor
1614				18.3 - 19.3	1238	Wet	M Sand	Medium brown fine to medium sand, some silt, little clay, strong petroleum-like odor
1616				19.3 - 19.8	1550	Wet		Medium brown fine to coarse sand, trace clay, strong petroleum-like odor
GPS Coo	rdinates:		X= 602365	0	Y= 629180	7	Surface Fle	av ft Groundwater Flev ft
Sampling	Data:		GM-SVE04	4-S001 collected	from 17.8 to	 0 19.8 at 16	25.	
Sampled	By:		KEP					

and: 35% to 50 % little: 10% to 20% some: 20% to 35% trace: <10%



GEOPROBE[®] DRILLING LOG BORING ID: GM-SVE05

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 40s, cloudy, moderate winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland RING ID: GM-SVEUS Project No.: 2734.04.51 Drilling Date(s): 12/17/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 11.9 Logged By: Kelly Power

Time	Tube	Depth	Recovery	(feet)	Reading	Moisture	Soil	Soil Description
	From	То	(feet)	From To	(ppm)		CidSS	
1631	0	5	3.7	0.0 - 1.5	0.5	Moist		Gray silt, little clay
1634				1.5 - 2.0	0.0	Moist	Silt	Orange brown silt, some clay
1636				2.0 - 3.3	0.0	Moist		Light brown silt, little clay, orange brown from 2.6 to 2.8
1637				3.3 3.5	0.0	Moist		Light brown silt, some medium to coarse round gravel, little clay
1640				3.5 - 3.7	0.0	Moist	M Sand	Orange brown fine to coarse sand, some fine to medium round gravel, trace clay
1644	5	10	4.5	5.0 - 5.4	0.0	Moist	Silt & Clay	Gray clay and silt
1646				5.4 - 5.7	0.0	Moist	Sand & Gravel	Gray fine to coarse angular gravel and fine to coarse sand
1648				5.7 - 6.9	0.0	Moist	M Sand	Orange brown fine to coarse sand, some silt, little fine to medium angular gravel
1650				6.9 - 9.5	5.4	Very Moist	Silt & Clay	Orange brown clay and silt, some fine to coarse sand, slight petroleum-like odor
1654	10	15	3.0	10.0 - 10.4	0.0	Moist	Sand & Gravel	Fine to coarse angular gravel and gray fine to coarse sand
1655				10.4 - 10.7	0.0	Moist	Silt & Clay	Orange brown clay and silt, trace fine to medium sand
1657				10.7 - 12.0	733	Moist		Orange brown fine to coarse sand and silt, trace fine to medium round gravel
1658				12.0 - 12.3	1469	Wet	Silt & Sand	Medium brown fine to coarse sand and silt, some fine to medium round gravel, slight petroleum-like odor
1659				12.3 - 13.0	1937	Wet		Medium brown silt and fine to coarse sand, some fine to coarse angular gravel, trace clay, petroleum-like odor
1700	15	20	4.4	15.0 - 16.0	8.9	Wet	Silt	Medium brown silt, some clay and fine to coarse sand, strong petroleum-like odor
1703				16.0 - 16.3	62.2	Wet	Gravel	Angular fine to coarse gravel, strong petroleum-like odor
1704				16.3 - 16.9	1646	Wet	M Sand	Medium brown fine to coarse sand, some silt, strong petroleum-like odor
1706				16.9 - 17.1	0.4	Wet	Gravel	Light brown coarse angular gravel, strong petroleum-like odor
1707				17.1 - 17.4	465	Wet	Silt & Sand	Medium brown fine to coarse sand and silt, some clay, strong petroleum-like odor
1709				17.4 - 17.6	1484	Wet	M Sand	Medium brown fine to medium sand, some silt, little clay, strong petroleum-like odor
1711				17.6 - 17.9	12.4	Wet	Clay	Medium brown clay, some fine to medium sand and silt, strong petroleum-like odor
1712				17.9 - 19.4	1717	Wet	M Sand	Medium brown fine to medium sand, some silt, little clay, strong petroleum-like odor
GPS Coo	rdinates:		X= 602360	0.0	Y= 629153	3.8	Surface Ele	ev: ft Groundwater Elev: ft
Sampling	Data:		GM-S\/F04	5-S001 collected t	rom 17 4 tr) 19.4 at 17	20.	
Sampled	Bv:		KFP			. 10 at 17		
Sampled By: IKEP								

little: 10% to 20% trace: <10%



GEOPROBE[®] DRILLING LOG BORING ID: GM-SVE06

Project Name: Dodson Avenue Vapor Instrusion Inv Location: Former Wilmington Assembly Plant Weather Conditions: 30s, cloudy, moderate winds Drilling Method: Geoprobe Sample Interval (feet): Continuous Driller: Gary Garland

ORING ID: GM-SVE06 Project No.: 2734.04.51 Drilling Date(s): 12/18/14 Drilling Contractor: Eichelbergers Type of Sample/Coring Device: Open-Tube Macrocore Depth Groundwater Encountered (feet, bgs): 17.1 Logged By: Kelly Power

Time	Tube	Depth	Recoverv	(feet)	Reading	Moisture	Soil	Soil Description	
	From	То	(feet)	From To	(ppm)		Class		
0910	0	5	3.6	0.0 - 1.4	0.0	Moist	Silt	Gray to orange brown silt, some fine to coarse sand, little clay, very slight petroleum-like odor	
0913				1.4 - 1.7	0.0	Moist		Orange brown silt and fine to coarse sand, trace clay	
0915				1.7 1.9	0.0	Moist	Silt & Sand	Orange brown silt and fine to coarse sand, some medium to coarse angular gravel, trace clay	
0917				1.9 - 2.8	0.0	Moist		Orange brown fine to coarse sand and silt, little fine to coarse angular gravel and clay	
0919				2.8 - 3.0	0.0	Moist	Clay	Orange brown clay, some fine to coarse sand, little silt	
0921				3.0 - 3.6	0.0	Moist	M Sand	Orange brown fine to coarse sand, little fine to medium angular gravel and silt	
0930	5	10	4.6	5.0 - 5.4	0.5	Moist		Medium brown fine to coarse sand, some silt, little clay, trace fine angular gravel	
0932				5.4 - 5.7	0.3	Moist	Sand & Gravel	Gray fine to coarse sand and some fine to coarse angular gravel, slight petroleum-like odor	
0933				5.7 - 6.2	0.7	Moist		Orange brown fine to coarse sand, some fine to coarse angular gravel, little silt, trace clay	
0935				6.2 - 7.8	0.4	Moist		Orange brown fine to coarse sand, some silt, little fine to coarse angular gravel and clay	
0937				7.8 - 9.6	4.4	Moist	M Sand	Orange brown fine to coarse sand, some silt, little fine to coarse angular gravel, trace clay	
0945	10	15	4.8	10.0 - 10.3	15.5	Moist		Medium brown fine to coarse sand, some silt, little clay	
0946				10.3 - 10.5	15.5	Moist		Medium brown fine to coarse sand, some silt and fine to medium round gravel, little clay	
0948				10.5 - 11.8	960	Moist		Orange silt and fine to coarse sand, little clay, strong petroleum-like odor	
0950				11.8 - 11.9	1143	Very Moist	Silt & Sand	Light brown fine to coarse sand and silt, some clay, strong petroleum-like odor	
0958				11.9 - 14.8	50.0	Very Moist	Clay & Sand	Light brown fine to coarse sand and clay, little silt, moderate petroleum-like odor	
1001	15	20	4.7	15.0 16.2	53.5	Moist	Clay	Medium brown clay, some fine to coarse sand and silt	
1006				16.2 16.8	51.5	Very Moist	Clay & Sand	Gray fine to medium sand and clay, little fine angular gravel, moderate petroleum like odor	
1012				16.8 16.9	88.6	Very Moist	Gravel	Fine to coarse angular gravel	
1014				16.9 - 17.1	295	Very Moist	Clay & Sand	Medium brown fine to coarse sand and clay, little silt, petroleum-like odor	
1018				17.1 19.5	1169	Wet	M Sand	Medium brown fine to coarse sand, some silt, little fine to medium round gravel, trace clay, very strong petroleum- like odor	
1020				19.5 - 19.7	60.4	Wet	w Sanu	Light brown fine to coarse sand, trace silt, moderate petroleum-like odor	
GPS Coo	rdinateo:		X- 602242	1	V- 620110	2.3	Surface Ela	v: ft Groupdwater Flav: #	
Sampling	Data:		A= 002343		from 17.6 +	10 6 of 10		orounuwater Elev. It	
Sampled	Daia. Rv:					ว เฮ.บ สเ 10			
Jumpicu	Sampled By: IKEP								

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX D WELL CONSTRUCTION LOGS













Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX E DAILY STATUS REPORTS

Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4



Date: 2/2/15	
Weather: <u>Cloudy</u> ,	Temperature: <u>305</u> , <u>Winds:</u> 10W
Construction Items Complete breaking up out of free l	ed: concrete & moving asphalt way for svie system install
Construction Items Ongoing	:
Material Management (Soil/ Stockpring_Cl Covered in f Personal Protection Equipm	Wood/Water): NCRETE & ASPHAIT MSTR 2NY Sheeting ent Used by Workers:
Used: 🖾 Safety glasses PNitrile gloves Needed:	□ Hard hat Steel toe boots □ Hearing protection □ Other:
Sampling or Monitoring Cor (if yes, please specify the reaso	npleted: no intrusive activities
Air monitoring on site Water discharge sampling Soil sampling	No Yes, reason: No Yes, reason: No Yes, reason:
Visitors Briefed on Environm Mike CROSKey	nental Conditions: A SCREME Pengelly
Completed By: Kelly	PANER

BrightFields Project # 2734.04.51

BrightFields, Inc.	Actions Taken	ig controls orssible Level C.
		2 /2 / 5 Level D plus engineerir Stop work, evacuate wo engineering control or p
on Assembly Plant e Unit 4	of problem, weather, etc.)	Date: Action Levels for Dus Dust level Level of Pri 2.5 mg/m ³
rmer Wilmingto	Notes (i.e.: source o	MUCT from area and find source of sgrade).
FO LU UN	(Mdd) (Mdd)	ition cutate workers ble Level C up
30, 16	Dust (mg/m ³)	rs: Level of Protei Level D Stop work, eve problem (possi
er: clouely	Location	r Signature:
	Time	Inspector Action Levels VOC Concentr 0-5 ppm above (for greater tha

BrightFields Project # 2734.04.51

Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4



Date: 2/3/15

Weather: p. cloudy /sunny Temperature: 2-05, Winds: modeRate

Construction Items Completed:

diggi	ng	main	trench	from	SVE06	to SVEO4	Å
the	TR	enches	to	SVEOG.	SVEOS,	& SVE04	

Construction Items Ongoing:

digging remaining trenches for SVE system piping

Material Management (Soil/Wood/Water):

contaminated	t soil from	trenches,	asphalt,	8	concrete
stockpilled	onsite &	covered	with p	ony	sheeting

Personal Protection Equipment Used by Workers:

Used: ØSafety glasses	🗆 Hard hat 🛛 👂	
➢ Nitrile gloves	□ Hearing protectio	n 🗆 Other:
Needed:		

Sampling or Monitoring Completed:

(if yes, please specify the reason.)

Air monitoring on siteNoYes, reason:*intrusive activity*Water discharge samplingNoYes, reason:Soil samplingNoYes, reason:

Visitors Briefed on Environmental Conditions:

none

Completed By: Kelly POWER

BrightFields Project # 2734.04.51

Weat	her: pcioucly/sum	ny, 20s	L.	ormer wumungton Assem Operable Unit 4	IDIY FIAIL	Environmental Services
Time	Location	Dust (mg/m ³)	(MPM)	Notes (i.e.: source of problem, w	veather, etc.)	Actions Taken
850	Soil in thewhowward	NR	2.3	broken concrete PID=6.3		None Regulared (all ambient pelow action
406	SUEOS & SVEOG	_	182.2	9.0F = OIT +1049.0		l level
158	soil in SVEO4 thench		246.0	CONCRETE PID-170.8		
510	Vai in mainteench hear cvEO3		4.5	CONCRETE PID= 9.6; Amben	f=0.8	
032	soil in SVEOS teenth	->	29.2	CONCRER PID=17.1		
05	soil in theirch b/w	0.110	325.7	concrete pid=23.6		
230	Sol in main hench	0.009	22.5			
234	soil apaund pipe	NR	366.5			
245	Sail around 2nd pipe	NR	3.0			
307	Son in main trench	0.0	354.7			
345	sont near sveol	0.044	16.6			
LSS	SONI NEAR SVEOS	0.020	600.9			
405	soni around pipe	NR	5695			
125	soil around piper	0.003	640.0			
450	Sail in thench to	0.213	285.7			
202	Smil in Stockpille	50.03t	508.5			
525	soil from main them	40.084	999.0			
545	Sail in Stockpille	500.0	2.205			A
Ispect	or Signature:	Helley	EPa	wel	Date: 2,	13/2015
Action Le VOC Cont)-5 ppm al > 5 ppm at (for greatet	vels for Total Organic Vapor centration Range bove background bove background r than 1 minute)	s: Level of Prote Level D Stop work, ev problem (pos	ection acuate worke sible Level C	Act Due 2.5 upgrade).	tion Levels for Du st level Level of P mg/m ³ 0 mg/m ³	st: otection Level D plus engineering controls Stop work, evacuate workers and implement more stringent engineering control or possible Level C.
NR-air m	onitorine readine was not recor	rded at that time.				

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Air Monitoring Log

BrightFields Project # 2734.04.51

Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4



Date:	21	41	15
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Weather: SUNNY, Temperature: 305-405, Winds: 10W

Construction Items Completed:

digging trenches for SVE system piping

Construction Items Ongoing:

Material Management (Soil/Wood/Water):

	continued	Stockpiling	Soil FROM	n trenche	3,
	concrete, 2	asphalt	onsite a	covered in	poly
_	-> separated	l cléaner s	roi from	n SVEOI .	f SVEO 2

Personal Protection Equ	ipment Used	by Workers:
-------------------------	-------------	-------------

Used: 🖉 Safety glasses	🗆 Hard hat 🛛 🖉	Steel toe boots
⊠ Nitrile gloves	□ Hearing protection	□ Other:
Needed:		

Sampling or Monitoring Completed:

(if yes, please specify the reason.)

Air monitoring on site	No	Ves reason:	intrusive	activity
Water discharge sampling	NO	Yes, reason:		0
Soil sampling	(No)	Yes, reason:		

Visitors Briefed on Environmental Conditions:

none

Completed By:	Kelly	POWER

BrightFields Project # 2734.04.51

J HTFIEIDS, INC. onmental Services	u	action levely)									*												nore stringent
	Actions Take	None Required (Below	-																		-	4/15-	tion el D plus engineering controls o work, evacuate workers and implement i ineering control or possible Level C.
t Assembly Flant Unit 4	problem, weather, etc.)									ple PLD = SS. 4 PPM	ple PTO= 57.8 ppm	60.46 PID=96.0 PPM	n SVEOZ & SVEOZ		ned \$ 902 = Otd and	hto=q.7 ppm		Soil stockpike PID= 0.2	PILE PED= O.3 PPIN	mgg 0.0=019 and	Kpite PID=0.0 ppm	Date:/	Action Levels for Dust: Dust level Level of Protec 2.5 mg/m ³ Level >5.0 mg/m ³ Stor engi
ormer winninguo Operable	Notes (i.e.: source of	(Ambient)		(Ambert)	(Ambient)	(Amb.ent)			(Ambant)	(Ambern); Soil stock	(Ambent); sail stock	(Ambient); San) Stac	encountered between		(Ambility); son 1 stock	(Ambeint), Soil Stockpile	(ARENER)	(Ambient); @ 1324	(AMBERTH); Soils tool	(Ambient); soil stack	(HARBIENT); Son'I Stac	hel	s from area and find source of upgrade).
dr	(MPM)	0.0	17.4	0.3	0.2	0.8	892.2	231.1	0.3	0.9	0.8	0.3	27.8	33.0	0'0	6.7	0.0	0.0	0.0	0.0	0.0	E Par	<u>iction</u> acuate worker ible Level C 1
in 10w mi	Dust (mg/m ³)	0.008	NR	0.034	0.04	0.016	0.029	0,021	NR	0.023	0.013	0,013	NR	NR	0.025	0,040	0.005	0,032	0.018	0.004	0.039	2000-	: Level of Prote Level D Stop work, ev problem (poss
as no hamme .	Location	TRENCH to SVEOG	Son' in main trenth	TRENCIN TO JUE OS	TRENCH TO SVE OF	TRENch to she of	Son's stockpile from	Soil stockpile from	main thench between	main thench near	trench to sve 03	Main trench b/w	soil aRound pipe	soil around removed	NUM FRENCH BEREEN	main trench neur	near sveoz	hear sveoz	Main trench b/w	main trench b/w	main thench part	or Signature: A	els for Total Organic Vapors: intration Range we background we background than 1 minute)
	Time	0841	01845	0958	2160	0922	0939	1005	1101	1028	1045	0011	1108	1130	1228	1245	1305	1318	1340	1418	1445	Inspecto	Action Leve VOC Conce 0-5 ppm abo > 5 ppm abo (for greater t

BrightFields Project # 2734.04.51
Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4



Date: 2 / 5 / 15					
Weather: show, T	emperatu	<u>re:</u> 30s	, <u>Wind</u>	s: moderat	<u>e-high</u>
Construction Items Completed hand digging aro for piping wit	<u>i</u> : buhd we h sar	ells & p nd laye	PREPPING PR	trench	
<u>Construction Items Ongoing</u> : Mill be laying	SVE.	system	פתומוק	tomor	Pow
Material Management (Soil/W Soil, concrete, & c maintained ons	lood/Wate asphait ite n	er): stockpil	es beir J shee	ng ting	
Personal Protection Equipmen Used: 🛛 Safety glasses [🏹 Nitrile gloves [Needed:	nt Used by □ Hard ha □ Hearing	Workers: at D g protection	Steel toe boo	ots	
Sampling or Monitoring Com (if yes, please specify the reasor	pleted: 1.)	11-5		6.57	
Air monitoring on site Water discharge sampling Soil sampling	No No No	Yes, reason Yes, reason Yes, reason	n: <u>WORKIR</u> n: n:	ng in trei	<u>nch</u>
Visitors Briefed on Environme	ental Conc	ditions:			
Completed By: Kelly 1	OWER				
BrightFields Project # 2734.04.51				updated 2/2/201	5 by KEP

D Weat	ate: 2 / 5 / her: 500/ 301, 1	15- high-high	Fc	ormer Wilmington Assembly I Operable Unit 4	Plant BrightFie Environment	elds, Inc.
Time	Location	Dust (mg/m ³)	(MPM)	Notes (i.e.: source of problem, weather,	, etc.) Actions Taken	
0856	trench near	0,094	0.2		None Reguired (Below ac	chan levels)
0905	main trench	0.060	0,5			
0924	trench near	1.50'0	0,2			
0942	trench near	0.211	0.2			
F2PO	them to sugar	0.151	0,3	(PTD Reading in ambient outside of	there = 0.3 ppm)	
1001	soil around shear	NR	0.0	sight odar in air		
1014	HENCH TO SVEDS	0.126	5.0			
1050	main trench hear	0.264	0.7			
1112	tRENCH to SVE09	0.249	3.1	(Amberit); PID of stanned sail= 7.8 pp	wa	
1120	stained soil stand svE04	NR	6.5			
1230	thench to sve of	0.167	0.4	Ambent fire PID=0.4 ppm		
1240	thench to sve os	0, 171	2.1	Ambert Air PID=0.6 ppm		
1300	thench to usos	0,415	0.2	Ambieut Air PTO=0.3 ppm		
14 15	tRENCH to SVEOI	0.063	2.0	Ambient this PTD= 0.2 ppm	\$	
Inspect	or Signature: 2	Xelles	Ela	Date: Date:	: 2/5/15	
Action Lev VOC Conc 0-5 ppm ab > 5 ppm ab (for greater	(els for Total Organic Vapor entration Range ove background ove background than 1 minute)	rs: Level of Prote Level D Stop work, ev problem (poss	ection acuate worker tible Level C u	Action Level Dust level Li 2.5 mg/m ³ >5.0 mg/m ³	els for Dust: .evel of Protection Level D plus engineering controls Stop work, evacuate workers and implement more stri engineering control or possible Level C.	ngent
NR-air mo	nitorine readine was not recor	rded at that time.				

BrightFields Project # 2734.04.51

Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4

BrightFields Project # 2734.04.51



Construction Items Completed: MCM5. Construction Items Ongoing: CAY/NG DVC PIDE FOR SVE SYSTEM. NO DI CEWE ACTIVIT Material Management (Soil/Wood/Water): M/4. Personal Protection Equipment Used by Workers: Used: □ Safety glasses □ Hard hat □ Steel toe boots □ Nitrile gloves □ Hearing protection □ Other:	weather. ((00)) (over, 1	emperature: <u>205</u> , <u>Winds:</u> <u>MONERATE</u>
Construction Items Ongoing: CAYING PVC PIPE FOR SVE SYSTEM. NO DI COME ACTIVIT Material Management (Soil/Wood/Water):	Construction Items Completed NCNIS,	<u>1</u> :
Material Management (Soil/Wood/Water): M/4 Personal Protection Equipment Used by Workers: Used: Safety glasses Material Management (Soil/Wood/Water): Personal Protection Equipment Used by Workers: Used: Safety glasses March hat Safety glasses March hat Steel toe boots Nitrile gloves Hearing protection Other: Sampling or Monitoring Completed: if yes, please specify the reason.) Air monitoring on site No Yes, reason: WORKING IN TRENCH Water discharge sampling No Yes, reason: Yes, reason:	Construction Items Ongoing: LAYING PVC PIPE	FOR SVE SYSTEM. NO DI CEME ACINITE
Personal Protection Equipment Used by Workers: Jsed: Safety glasses Ised: Safety glasses Ised: Hard hat Safety glasses Hard hat Ised: Other: Veeded: Hearing protection Sampling or Monitoring Completed: If yes, please specify the reason.) Air monitoring on site No Vater discharge sampling No Ves, reason: Yes, reason: No Yes, reason:	<u>Aaterial Management (Soil/W</u> ルイ-	/ood/Water):
Sampling or Monitoring Completed: if yes, please specify the reason.) Air monitoring on site No Vater discharge sampling No Yes, reason: Yes, reason: Yes, reason: Yes, reason:		
Air monitoring on site No Yes, reason: WORKING IN TRENCH Water discharge sampling No Yes, reason:	Personal Protection Equipmen Used: 🖸 Safety glasses 🛛 🖸 Nitrile gloves 🖓	nt Used by Workers: ☑ Hard hat □ Steel toe boots □ Hearing protection □ Other:
Viete - Deiefel - Freisenwertel Canditioner	Personal Protection Equipmen Used: ☑ Safety glasses [☑ Nitrile gloves [Needed: Sampling or Monitoring Com if yes, please specify the reasor	nt Used by Workers: I Hard hat I Steel toe boots Hearing protection I Other: pleted: n.)
NONE	Personal Protection Equipmen Used: □ Safety glasses □ □ Nitrile gloves □ Needed: □ Sampling or Monitoring Com □ If yes, please specify the reason □ Nir monitoring on site ○ Water discharge sampling ○ Soil sampling □	Image: Description Image: D

Inc.	N.											
Environmental Ser	Actions Taken	NUNIT	NUNE	-				2		5/12	ion I D plus engineering controls work, evacuate workers and implement more stringent teering control or possible Level C.	
Air Monitoring Log rmer Wilmington Assembly Plant Operable Unit 4	Notes (i.e.: source of problem, weather, etc.)	2.5 IN TRENCH AA-0,2	4.2 IN TRENCH AA-116	- MIFACUCT TO TAKE PID	READINGS ACCURATELS DUE	TO PVC CURE		DUST METER STOPPED WORKING		all Date: 2/	Action Levels for Dust: Dust level Level of Protect 2.5 mg/m ³ Leve grade). >5.0 mg/m ³ Stop	
Fo	PID (MPM)	2.5	4,2	NA	i				U	111	<u>tion</u> cuate workers ble Level C up	
15 20 ; 20 ;	Dust (mg/m ³)	0000	0.000	0.001	0,000	0,000	0,000	NA		m	s: Level of Protec Level D Stop work, eva problem (possi	ded at that time.
te: <u>2.1 6.1.</u> er: <u>SUNNY, Co</u>	Location	SVE 08	SNE 06	SVB OS	SUE OY	SUBOY	SVE UY	SVE 04		r Signature:	s for Total Organic Vapor tration Range e background e background an 1 minute)	oring reading was not recor
Da	Time	04.80	1025	1/15	1230	1300	1330	(100)		Inspecto	Action Level VOC Concent 0-5 ppm abov > 5 ppm abov (for greater th	NR-air monit

BrightFields Project # 2734.04.51

Environment Daily Status Report
Former Wilmington Assembly Plan
Operable Unit 4



ed:
R SVE SYSTEM
cher with cand
crus varn sang
Wood/Water):
maintain Sol, concrete, a
epices of sine
ant Used by Workers:
□ Hard hat
□ Hearing protection □ Other:
□ Hearing protection □ Other:
□ Hearing protection □ Other:
Hearing protection Other:
Hearing protection Other:
□ Hearing protection □ Other:
□ Hearing protection □ Other: <u>npleted:</u> on.) No (res) reason: <u>WORKING in treench</u> No Yes, reason:
□ Hearing protection □ Other:
Hearing protection Other:
Hearing protection Other: npleted: on.) No (es) reason: <u>Working in trench</u> No Yes, reason: no Yes, reason: nental Conditions:
Hearing protection Other:
Hearing protection Other: npleted: Don.) No (es) reason: <u>WORKING in treench</u> Yes, reason: no Yes, reason: nental Conditions:
Hearing protection Other:
Hearing protection Other:

BrightFields, Inc.	Actions Taken	Required (below action levely)										4					engineering controls acuate workers and implement more stringent ontrol or possible Level C.	
og mbly Plant f	weather, etc.)	None	INTERTECTION	Buing	uddo:0=2did bu	re interference.										Date: 2/9/15	ction Levels for Dust: ust level Level of Protection 5 mg/m ³ Level D plus 5.0 mg/m ³ Stop work, ev	
Air Monitoring L ormer Wilmington Asseı Operable Unit 4	Notes (i.e.: source of problem,		NO PED REading due to	all PID Readings in Rer	whench prive to lay	No FIP Reading due to gu						\$				Pollel	A 2. pgrade).	
FC	(MPM)	0.0	NR	0.0	1	NR	-			-		4				266	ction tcuate worker ble Level C u	
10 m	Dust (mg/m ³)	0.007	0.021	540'0	l	0.052	0.005	0.012	0.062	0.005	0.035	0.007				\$0000	Level of Prote Level D Level D Stop work, eve problem (possi	led at that time.
ate: <u>2 / 9 / 1</u> her: <u>30/, c/04</u>	Location	Main thench by SVE03	trench to JVE02	SVE OI HENCH &	SVEDI & SVE02	main trench b/w SvE01 & SVE02	Main trench biu	then in to sve oi	main teench	main trench part sveol	thench to sveol	trenches to sveos, sveos				or Signature:	els for Total Organic Vapors Intration Range we background we background han 1 minute)	itorine readine was not record
Da Weath	Time	1210	1222	1236	1	1250	1304	13/8	1330	1345	1355	1430				Inspecto	Action Leve VOC Concer 0-5 ppm abov > 5 ppm abov (for greater th	NR- air moni

BrightFields Project # 2734.04.51

Environment Daily Status Report Former Wilmington Assembly Plant Operable Unit 4



Weather: Clear,	, Temperature: 50's , Winds: 10 W
Construction Items Complet	ted:
Brought all e	x cavated soil, concrete, & blacktop
OFFITE	
Construction Items Ongoing	g:
None	
Material Management (Call	(N/a ad /N/atan).
Material Management (Soll	Wood/water): m Ske conveyance trenches brought
offsite to clean	Farth, 2 loads blacktop & 1 load
Unite to cicour	
concrete brow	when offsite by Cirillo
concrete prou	ight offsite by Cirillo
concrete prou	ight offsite by Cirillo
concrete brou	ight offsite by Circillo
<u>CONCRETE</u> BROU Personal Protection Equipm	nent Used by Workers:
<u>CONCRETE</u> BROU Personal Protection Equipm Used: PSafety glasses	nent Used by Workers:
<u>CONCRETE</u> <u>BROU</u> Personal Protection Equipm Used: PSafety glasses □ Nitrile gloves	nent Used by Workers: Hard hat DSteel toe boots Hearing protection Cother:
<u>CONCRETE</u> <u>BROU</u> <u>Personal Protection Equipm</u> Used: PSafety glasses D Nitrile gloves Needed:	<u>ment Used by Workers:</u>
<u>CONCREE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ØSafety glasses □ Nitrile gloves Needed:	<u>ment Used by Workers:</u>
<u>CONCRETE</u> <u>BROU</u> <u>Personal Protection Equipm</u> Used: ØSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u>	ment Used by Workers: Hard hat EDSteel toe boots Hearing protection Other:
<u>CONCRETE</u> bROU Personal Protection Equipm Used: ØSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas	ment Used by Workers: Image: Hard hat Image: Hearing protection Image: Dempleted: Son.)
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ^P Safety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site	aght Offsite by Circillo ment Used by Workers: □ Hard hat DSteel toe boots □ Hearing protection □ Other: ompleted: son.) No Vest reason: \$ 01 1000 out
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ∠PSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling	ught Offsite by Circillo ment Used by Workers: Image: Second Steel to boots Image: Hearing protection Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots Image: Second Steel to boots
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ØSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling	aght Offsite by Circillo ment Used by Workers: Image: Completed by Workers: Image: Completed by Workers: Image: Hearing protection Image: Completed by Other: Image: Completed by Workers: Image: Son.) Image: No Yes, reason: Son 1 10000 AUthers: Image: No Yes, reason: Son 1 10000 AUthers: Image: Completed Building B
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ∠PSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling	aght Offsite by Circillo ment Used by Workers:
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ØSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling <u>Visitors Briefed on Environ</u>	aght offsite by Circillo ment Used by Workers: Image: Hard hat Image: ADSteel toe boots Image: Hearing protection Image: Dempleted: Son.) No Yes, reason: Son.) No Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason:
<u>CONCRETE</u> <u>bROU</u> <u>Personal Protection Equipm</u> Used: ∠PSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling <u>Visitors Briefed on Environ</u> NONL	ment Used by Workers: Image: Hard hat Image: Hearing protection
<u>CONCRETE</u> bROU <u>Personal Protection Equipm</u> Used: ØSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling <u>Visitors Briefed on Environ</u> NONE	aght offsite by Circillo ment Used by Workers: Image: Hard hat Descretation Descretation Image: Hearing protection Ompleted: son.) No Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason: Yes, reason:
<u>CONCRETE</u> bROU <u>Personal Protection Equipm</u> Used: ∠PSafety glasses □ Nitrile gloves Needed: <u>Sampling or Monitoring Co</u> (if yes, please specify the reas Air monitoring on site Water discharge sampling Soil sampling <u>Visitors Briefed on Environ</u> NONE	ment Used by Workers: Image: Hard hat Image: Hearing protection Image: Other: Image: Son.) No Yes, reason: Yes, reason: Yes, reason: Yes, reason: Image: Addition in the im

BrightFields, inc.	Actions Taken	re Required (Below act on level)										2	engineering controls acuate workers and implement more stringent ontrol or possible Level C.
ormer Wilmington Assembly Plant Operable Unit 4	Notes (i.e.: source of problem, weather, etc.)	Loading 1st agonalt truck Noi	Loading 1tt Soil tRuck	Loading 2 rd asphalt truck	Loading 2nd Smil Hauch	LOUGHING CONCRETE FRUCK	cleaning up sai stockpile arear; high winds	Loading 3rd sail truck	Localing 4th sail truck .	commung locating the soil head	LOUGING 5th tRUCK	Buref Date: 4/28/1	Action Levels for Dust: Dust level Level Of Protection 2.5 mg/m ³ Level D plus >5.0 mg/m ³ Stop work, error of
1) Iow which	Dust PID (mg/m ³) (PPM)	0.005	0.020	0.027	0.057	0,008	2.025	0.029	0,450	0.344	0.063	XOUPA E.F	rs: Level of Protection Level D Stop work, evacuate work problem (possible Level C
ther: <i>CleaR</i> ₁ 50	Location											tor Signature: ζ	evels for Total Organic Vapor centration Range bove background bre background r than 1 minute)
Wea	Time	0822	0835	08 54	0954	8001	1021	11 10	1222	1238	1339	Inspect	Action Le VOC Con 0-5 ppm a > 5 ppm al

BrightFields Project # 2734.04.51

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX F SOIL DISPOSAL MANIFESTS

Clean Earth of New Castle Ticket: 700000225998 Date Time Scale 94 Pyles Lane In: 4/28/2015 09:15:02 Scale SC New Castle, DE 19720 Ph: (302) 427-6633 Fax: (302) 427-6634 Out: 4/28/2015 09:17:10 P.T.

Manifest: 1050105 ԼԵց This Gross: 76980 38.49 Tare: 28340 14.17 Vehicle ID: 02ST23 Net: 48640 24.32

Vehicle Permit: DESW-1170

Customer: CAPITOL ENVIRONMENTAL SER

Carrier: S & T Trucking Company

Facility Approval#: 153020047

Generator: Racer Trust Gen Address: 500 Woodward Avenue Suite 1510 Detroit, MI 48226

Job Name: Racer Trust-Wilmington Site Job Address: 801 Boxwood Rd. Wilmington, DE 19804

Quantity Unit

24.32 Ths

Contaminate Type

NDN SPECIFIC SOURCE

Comment:

Driver: Benjamin

Napier, Jim Facility:



0

5-5-15

Manifest # 1050105

GLOBAL JOB NUMBER:

FACILITY APPROVAL NUMBER: 15 30 2

153020047

Please Check One:

Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909

Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520 Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220

136511

Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004 Lean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633

Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700

Clean Earth of Greater Wasi	hing	gton
Upper Mariboro, MD 20772		
Ph: 301-599-0939		
Other		

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Recer Trust - Wilmington Site	Tons Yards	76980 16 CROSS 9:15AM 4-28-1
801 Boxwood Rd., Wilmington, DE 19804	TARE WEIGHT:	25-2-10
	Tons Yards	00340
GENERATOR'S PHONE: \$37.478.8221 Pamele Bernett	NET WEIGHT:	71/22
	Tons Yards	
DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCAT	TION	а. Э
Non DOT, Non RCRA Regulated Material (soil)		· · · · · · · · · · · · · · · · · · ·
		×.
Υ.		
GENERATOR'S CERTIFICATION - Incomplete and/or unsig	gned manifests will cause the	he load to be delayed and/or rejected.
CFR Part 172 or any applicable state law, has been fully and ac for transportation according to all applicable state and federal re Name: <u>Minist And Minister</u> Signature: <u>Minister</u> Cult	curately described above, c egulations. Title: Date and Time:	lassified, packaged and is in proper condition C = 26715 - 26000 - 26000 - 26000 - 2600 - 26000 - 26000 - 26000 - 2600
TRANSPORTER		
Company: TAT Trucking	Phone Number:	302 832-2967
Address: 3402 Wrangle Hill Rd., Bear, DE 19701	Truck # and License Plate	: 23 ///641
Driver: Michof Bunjamin	SW Haulers Permit #:	1170
(Type or Print Clearly)		(applicable state permit #)
Driver Signature: Michael Denfermen	material was picked up at the second se	the site listed above. 33.15
DESTINATION		
I hereby certify that the above named material wa	s delivered without inciden	t to the facility noted above.
L hereby certify that the above named materi	al has been accepted at the	above referenced facility.
Authorized Signature:	Date and Time	4-28-15

SITE

Ticket: 700000226099 Clean Earth of New Castle Date Time Scale 94 Pyles Lane In: 4/28/2015 10:26:34 Scale SC New Castle, DE 19720 Out: 4/28/2015 10:29:02 P.T. Ph: (302) 427-6633 Fax: (302) 427-6634 Lbs Tns Manifest: 1050106 Gross: 73620 Tare: 28340 36.81 14.17 Vehicle ID: 02ST23

Vehicle Permit: DESW-1170

Customer: CAPITOL ENVIRONMENTAL BER

Carrier: 5 & T Trücking Company

Net: 45280

22.64

Facility Approval#: 153020047

Generator: Racer Trust Gen Address: 500 Woodward Avenue Suite 1510 Detroit, MI 48226

Job Name: Racer Trust-Wilmington Site Job Address: 801 Boxwood Rd. Wilmington, DE 19804

Quantity Unit

22.64 Ths

Contaminate Type

NON SPECIFIC SOURCE

Conment:

Driver: Benjamin

Napier Jim Facility:



Manifest # 1050106

GLOBAL JOB NUMBER: 136511

FACILITY APPROVAL NUMBER: 153020047

1.1.10.

Please Check One:

Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909

Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520 Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220

Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004 Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633

Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700

Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

Other___

Non-Hazardous Material Manifest (Type or Print Clearly) **GROSS WEIGHT:** GENERATOR'S NAME & SITE ADDRESS: Tons Yards 73620 15 GR09510:278M 4-28-45 Recer Trust - Wilmington Site TARE WEIGHT: 801 Boxwood Rd., Wilmington, DE 19804 2340 Tons Yards NET WEIGHT: GENERATOR'S PHONE: \$37-478-8221 Pamela Bannatt 32.64 Tons Yards **DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION** Non DOT, Non RCRA Regulated Material (aoli) GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. the spinon Title: Name: 21, 127 Date and Time: 4128/15 01/4 Signature: TRANSPORTER Phone Number: Company: TAT Trucking Truck # and License Plate: 23 /// 64/ 3482 Wrancie Hill Rd., Bear, DE 19701 Address: ichael SW Haulers Permit #: Driver: (applicable state permit #) I hereby certify that the above named material was picked up at the site listed above. norman Date and Time: 4.25.15 Driver Signature:

DESTINATION

I hereby cer Driver Signature:	tify that the above n	named material was del	ivered without inci- _ Date and Time:	dent to the facility noted above. $4 + 3 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$	-		
I hereby certify that the above named material has been accepted at the above referenced facility.							
Authorized Signature:	and a first france	1 1 hours of the	Date and Time:	4-28-15			

Clean Earth of New Castle Ticket: 700000226217 94 Pyles Lane Date Time Scale New Castle, DE 19720 In: 4/28/2015 11:41:22 Scale SC Ph: (302) 427-6633 Fax: (302) 427-6634 Out: 4/28/2015 11:42:48 P.T. Manifest: 1050107 Lbs า๊กร Gross: 75800 37.90 14.17 Vehicle ID: 02ST23 Tare: 28340 23.73 Net: 47460 Customer: CAPITOL ENVIRONMENTAL SER Carrier: S & T Trucking Company Facility Approval#: 153020047 Job Name: Racer Trust-Wilmington Site Generator: Racer Trust Gen Address: 500 Woodward Avenue Job Address: 801 Boxwood Rd. Wilmington, DE 19804 Suite 1510 Detroit, MI 48226

Contaminate Type

NON SPECIFIC SOURCE

Comment:

Driver: Benjamin

Napist, Jie Facility:

Quantity Unit

23.73 Ths

Vehicle Permit: DESW-1170



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Manifest # 1050107

FACILITY APPROVAL NUMBER: 153020047 136511 **GLOBAL JOB NUMBER: Please Check One:** Clean Earth of Carteret Clean Earth of Maryland Clean Earth of New Castle Clean Earth of Greater Washington 6250 Dower House Road 24 Middlesex Avenue 1469 Oak Ridge Place 94 Pyles Lane Hagerstown, MD 21740 New Castle, DE 19720 Upper Marlboro, MD 20772 Carteret, NJ 07008 Ph: 302-427-6633 Ph: 301-599-0939 Ph: 732-541-8909 Ph: 301-791-6220 Clean Earth of Philadelphia Clean Earth of North Jersey Clean Earth of Southeast Pennsylvania Other..... 7 Steel Road East 3201 S 61st Street 115 Jacobus Avenue Philadelphia, PA 19153 Kearny, NJ 07032 Morrisville, PA 19067 Ph: 973-344-4004 Ph: 215-428-1700 Ph: 215-724-5520 Non-Hazardous Material Manifest (Type or Print Clearly) GENERATOR'S NAME & SITE ADDRESS: GROSS WEIGHT: Tons Yards 75800 16 GROSS11:418M 4-28-Racer Trust - Wilmington Site 801 Boxwood Rd., Wilmington, DE 19804 TARE WEIGHT: 28340 Tons Yards GENERATOR'S PHONE: 937-478-8221 Pamele Bennett NET WEIGHT: Tons Yards **DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION** Non DOT, Non RCRA Regulated Material (soli) GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law. is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. 11.14 4 12: Le 77 Title: Name: Date and Time: 4/28/15 The second and and the 1100 Signature: TRANSPORTER Phone Number: Company: 302 832-2667 TAT Trucking Truck # and License Plate: 3482 Wrancie Hill Rd., Bear, DE 19701 Address: Long 117 SW Haulers Permit #: Annta Driver: (Type or Print Clearly) (applicable state permit #) I hereby certify that the above named material was picked up at the site listed above. Date and Time: 4-Driver Signature: Muchau DESTINATION I hereby certify that the above named material was delivered without incident to the facility noted above. Myanni Date and Time: 41 28.19 Driver Signature: 11640-CO I hereby certify that the above named material has been accepted at the above referenced facility. Date and Time: 4-78-15 Authorized Signature:

SITE

Clean Earth of New Castle Ticket: 700000226330 Date Time Scale 94 Pyles Lane In: 4/28/2015 13:06:42 Scale SC New Castle, DE 19720 Out: 4/28/2015 13:08:47 P.T. Ph: (302) 427-6633 Fax: (302) 427-6634 Lbs This

Manifest: 1050108 38.99 Gross: 77980 Tare: 28340 Net: 49640 14.17 Vehicle ID: 029723 24.82 Vehicle Permit: DESW-1170

Customer: CAPITOL ENVIRONMENTAL SER

Carrier: S & T Trucking Company

Facility Approval#: 153020047

Generator: Racer Trust Gen Address: 500 Woodward Avenue Suite 1510 Detroit, MI 48226

Job Name: Racer Trust-Wilmington Site Job Address: 801 Boxwood Rd. Wilmington, DE 19804

Quantity Unit

24.82 Ths

Conment:

NON SPECIFIC SOURCE

Contaminate Type

Driver: Benjamin

Facility:

Napier, Jim



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Manifest # 1059108

GLOBAL JOB NUMBER: 136511	FA	CILITY APPROVA	AL NUMBER: 153020047
Please Check One:	•		
Clean Earth of CarteretClean Earth of Maryland24 Middlesex Avenue1469 Oak Ridge PlaceCarteret, NJ 07008Hagerstown, MD 21740Ph: 732-541-8909Ph: 301-791-6220	Clean 94 Py New 0 Ph: 30	Earth of New Castle les Lane Castle, DE 19720 2-427-6633	Clean Earth of Greater Washington 6250 Dower House Road Upper Marlboro, MD 20772 Ph: 301-599-0939
Clean Earth of PhiladelphiaClean Earth of North Jersey3201 S. 61st Street115 Jacobus AvenuePhiladelphia, PA 19153Kearny, NJ 07032Ph: 215-724-5520Ph: 973-344-4004	Clean 7 Stee Morris Ph: 27	Earth of Southeast Penns el Road East sville, PA 19067 15-428-1700	/vania Other
Non-Hazar	rdous N	laterial Manifes	t
(Type or Print Clearly)			
GENERATOR'S NAME & SITE ADDRESS:		GROSS WEIGHT:	777000 15 CPUSS 1:07PM 4-28-1
Recor Trust - Wimington Sile		Tons Yards	Wigou in anost i onni i co i
801 Boxwood Rd., Wilmington, DE 19804	¢	TARE WEIGHT:	2220
		Tons Yards	20240
GENERATOR'S PHONE: 987-478-8221 Pamela Bennett		NET WEIGHT:	21/52
		Tons Yards	17.00
DESCRIPTION OF MATERIAL/SAMPLE ID AND LO	OCATION		•
Non DOT. Non RCRA Regulated Material (soli)		•	
			e a construction and a construction of the con
I hereby certify that the above named material does not co is not a hazardous waste as defined by 40 CFR Part 261 or CFR Part 172 or any applicable state law, has been fully a for transportation according to all applicable state and fed Name:	ontain free r any appli and accurate eral regula	liquid as defined by 40 (cable state law, is not a ely described above, cla tions. Title: Date and Time: 4	CFR Part 260.10 or any applicable state law, DOT hazardous substance as defined by 49 ssified, packaged and is in proper condition
TRANSPORTER			
Company: TAT Tarabas	Pho	ne Number	502 052 3667
Address: 3482 Virangie Hill Rd., Bear, DE 19701	Tru	ck # and License Plate	23 111 041
Driver:	SW	Haulers Permit #:	1170
I hereby certify that the above na	amed mater	ial was picked up at the	site listed above.
Driver Signature: 1////////////////////////////////////		_ Date and Time:	<u>1: 2:: 15</u>
DESTINATION	ial was deli	vered without incident	to the facility noted above.
Driver Signature:		_ Date and Time:	
Driver Signature: I hereby certify that the above pamed n	naterial has	_ Date and Time:	boye referenced facility.
Driver Signature: I hereby certify that the above pamed n Authorized Signature:	naterial has	Date and Time:	poye referenced facility.

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Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: (302) 427-6633 Fax: (302) 427-6634

Manifest: 1050109

Vehicle ID: 02ST23

Vehicle Permit: DESW-1170

Customer: CAPITOL ENVIRONMENTAL SER

Ticket: 700000226411 Date Time Scale In: 4/28/2015 14:06:29 Scale SC Out: 4/28/2015 14:07:33 P.T.

	L.bs	Tns
Gross:	45260	22.63
Tare:	28340	14.17
Net:	16920	8.46

Carrier: S & T Trucking Company

Facility Approval#: 153020047

Senerator: Racer Trust Gen Address: 500 Woodward Avenue Suite 1510 Detroit, MI 48226 Job Name: Racer Trust-Wilmington Site Job Address: 801 Boxwood Rd. Wilmington, DE 19804

Quantity Unit

8.46 Ths

Facility:

Comment:

Driver: Benjamin

Contaminate Type

NON SPECIFIC SOURCE



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Manifest # 1050109

GLOBAL JOB NUMBER:

FACILITY APPROVAL NUMBER:

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Please Check One:

Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909

☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520 Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220

136511

Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004 Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633

Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700

ш	Clean Earth of Greater Washington
	6250 Dower House Road
	Upper Marlboro, MD 20772
	Ph: 301-599-0939
	Other

Non-Hazardous Material Manifest

(Type or Print Clearly)		
GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:	
Recer Trust - Wilmington Site	Tons Yards	45280 16 GR053 2:05PM 4-28-15
801 Bexwood Rd., Wilmington, DE 19804	TARE WEIGHT:	C. A. A. A.
5	Tons Yards	28390
GENERATOR'S PHONE: 957-478-8221 Parnele Bernett	NET WEIGHT:	2.11
	Tons Yards	0.76
DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCAT	<u>ION</u>	•
Non DOT, Non RCRA Regulated Natarial (aoli)		i
· · · · · · · · · · · · · · · · · · ·		
GENERATOR'S CERTIFICATION – Incomplete and/or unsig	gned manifests will cause th	e load to be delayed and/or rejected.
is not a hazardous waste as defined by 40 CFR Part 261 or any CFR Part 172 or any applicable state law, has been fully and ac for transportation according to all applicable state and federal re	applicable state law, is not a curately described above, claegulations.	DOT hazardous substance as defined by 49 assified, packaged and is in proper condition
Name: <u>Manual Anna Constanting</u>	Title:	hat prive a Manara Green
Signature:	Date and Time:	<u> </u>
TRANSPORTER	· · · · · · · · · · · · · · · · · · ·	
Company: TAT Trucking	Phone Number:	302 832-2667
Address: 3482 Virangie Hill Rd., Bear, DE 19701	Truck # and License Plate:	111 641
Driver: MARC B	SW Haulers Permit #:	1170
(Type or Print Clearly)		(applicable state permit #)
Driver Signature: <u>11116</u> .	material was picked up at the Date and Time:	e site listed above.
DESTINATION		
I hereby certify that the above named material wa Driver Signature:	s delivered without incident Date and Time:	to the facility noted above. $\int \int \int$
I hereby certify that the above named materi	al has been accepted at the a	bove referenced facility.
Authorized Signature: HULLER	Date and Time:	-28-15

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX G GROUNDWATER DISPOSAL MANIFEST

'Ιν	VASTE MANIEEST			and age i on	3. Emergency Hespo	nse Phone	4. Waste	Tracking Nu	umber
5. Ge	enerator's Name and Mail	ing Address		1	(302) 540 Generator's Site Addr	O283	than mailing add	Iraca)	
Rac	er Trust - Wilminot	on Site			·	ese (il allision	than masing aut	1033/	
500	Woodward Ave. 5	Julie 1510. Datrolt. MI 482	726		801 800	unnd Road	Milminoten	OF 108	ru .
Gene	erator's Phone: (937) 47	8-8221 Atin: Pamale Bar	Tunti	1	OUT DUM		, a sur un Bare	, DC 190	
6. Tr	ansporter 1 Company Na	me					U.S. EPA ID	Number	
Envi	commandal Flacove	Comparation of PA							NOT DECK UDED
7. Tr	ansporter 2 Company Nar	ne					U.S. EPA ID	Number	
-									
8. De	asignated Facility Name a	nd Site Address					U.S. EPA ID	Number	
Envi	ronmental Recover	y Corporation of PA							
1076	Old Menhelm Pile	e, Lancaster, PA 17601					¥1	F	AD 967 266 749
Facili	17 17) 39	3-2627			10.00	atalaam	1	1	
1	9. Waste Shipping Nam	e and Description			No.	Type	11. Total Quantity	12. Unit	The second second
56.25	1.				140.	iype	Guanary		
	Non DOT, Non I	RCRA Regulated Material			5	DM	200	G	
	(IDW Winter)					1234		- C.	A STATE OF STATE
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14. GE Gener	ENERATOR'S/OFFEROR arked and labeled/placard rator's/Offeror's Printed/Ty	I'S CERTIFICATION: I hereby decl. ed, and are in all respects in prope ped Name	are that the contents of this r condition for transport acc	s consignment are cording to applicab Signa	fully and accurately d	escribed above ational governm	by the proper sh mental regulations	ipping name	, and are classified, packaged, Month Day Yee
14. GE Gener	ENERATOR'S/OFFEROR arked and labeled/placard rator's/Offeror's Printed/Ty ArM BA lemational Shipments	I'S CERTIFICATION: I hereby decl ed, and are in all respects in prope ped Name	are that the contents of this r condition for transport acc	s consignment are cording to applicab Signa	fully and accurately d	escribed above ational governm	by the proper sh rental regulations	ipping name	, and are classified, packaged, Month Day Yee 6 17 15
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Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX H STATE OF DELAWARE 6028 INCIDENT REPORT

<u>Regulation 1203</u> "Reporting of a Discharge of a Pollutant or an Air Contaminant"

INCIDENT REPORT



STATE OF DELAWARE

Department of Natural Resources and Environmental Control Division of Waste and Hazardous Substances 89 Kings Highway Dover, Delaware 19901

Date Submitted _____ April 14, 2015_____

For Facility Former GM Facility (UST ID#3-000541/LUST ID#N8708035)

For Incident Occurring on <u>3/31/15 – 4/1/15</u>

If release not applicable to Reporting Regulation i.e. excess air permit emission or industrial accident:

This Report was requested by: Everett DeWhitt on April 14, 2014 (date)

Must be submitted by: ______(date)

STATE OF DELAWARE 6028 INCIDENT REPORT

Sending this Report fulfills your obligation to submit a written report pursuant to 7 <u>Del, C.</u>; Section 6028, and the corresponding "<u>Reporting of a Discharge of a Pollutant or an Air Contaminant</u> Regulation. Submission of the information in Part I of this Report also fulfills the requirements of the Environmental Protection Agencies (EPA) Section 304(c) of the Emergency Planning and Community Right-to Know Act of 1986 (SARA, Title III), Section 304, Emergency Notification (40 CFR part 355) to submit a written follow-up report "as soon as practicable" (within 30 days).

A copy of **all** written follow up reports for discharges initially reported as required by Section 2.5 of the "<u>Reporting of a Discharge of a Pollutant or an Air Contaminant</u> Regulation **must** be submitted to the Delaware Division of Waste and Hazardous Substances (DWHS) Central Depository (Address below). A Report (Part I) sent to the Central Repository fulfills federal rule 40 CFR Part 355.40 (b) 3 requirement to submit a written follow up to the State Emergency Response Commission (SERC) to the State of Delaware.

Federal notification requirements also require a written report update (minimum Part I) to the appropriate local emergency planning committee (LEPC) and the SERC of any State likely to be affected by the release.

 DNREC/DWHS Central Repository Attn: Reporting Regulation 89 Kings Highway Dover, DE 19901 Phone: (302) 739-9400 Fax: (302) 739-5060 	 New Castle County LEPC P.O. Box 2998 Wilmington, DE 19805-0998 Phone: (302) 395-3633 Fax: (302) 323-4573
 Kent County LEPC Kent County Department of Public Safety 911 Public Safety Boulevard Dover, DE 19901 Phone: (302) 735-3465 Fax: (302) 735-3473 	 City of Wilmington LEPC 22 S. Heald Street Wilmington, DE 19801 Phone: (302) 576-3914 Fax: (302) 571-5491
Other:	[] Sussex County LEPC 21911 Rudder Lane P.O. Box 589 Georgetown, DE 19947 - 0589 Phone: (302) 855-7801
 [X] Air Quality Management Section, DNREC Blue Hen Corporate Center 655 S. Bay Road, Suite 5N Dover, DE 19901 Phone: (302) 739-9402 Fax: (302) 739-3106 	 [X] Engineering & Compliance Branch and/or [X] Accidental Release Prevention Group Air Quality Management Section, DNREC 715 Grantham Lane New Castle, DE 19720 Phone: (302) 323-4542 Fax: (302) 323-4598

Revised 2010

State of Delaware 6028 Incident Report Part I

 Facility Name and location of discharge: Facility Name: Former GM Facility (UST ID#3-000541/LUST ID#N8708035) 801 Boxwood Rd Wilmington, DE 19801

	Address	City	County	State	Zip Code
2.	Name of owner or Operator a	and mailing address:			
	RACER Trust 500 Woodward Ave, Suite 1.	510, Detroit, MI 4822	6		
	Address	City	County	State	Zip Code
3.	Release Information: Date <u>3/31/15 – 4/1/15</u>	Estimated Start	Time: <u>10:58 AM</u>	_ Duration:	<u>Continuous</u>
4.	Environmental Pathway(s) [X] AIR	[] WATER	[] LAND		
5.	Type of Incident <i>(check All the second seco</i>	<i>hat apply)</i> []PUMPING []POI [] LEACHING [] DU IRONMENT (<i>Including th</i>	JRING [X] EMITTI MPING [] DISCHAI the abandonment of, or di	NG []EMPTYIN RGING ischarge of, barrel other closed i	IG s, containers, or eceptacles)
	WAS THERE A [] FIRE? or [] EXPLOSION?			
6.	Chemicals or substances ar mixtures, also indicate the c C1-C4 Hydrocarbons (as pro	nd Chemical Abstract onstituent chemicals a pane)	System (CAS) num nd associated CAS r	bers that were numbers dischar	involved. For ged.
	Indicate whether the chemica	l or chemicals are an	Extremely Hazardou	s Substance, as	defined

Under the SARA Title III list codified in 40 CFR part 355. [X] No

[] Yes

State of Delaware 6028 Incident Report Part I

- The quantity or estimated quantity of any chemical(s), substances, or compound(s) discharged into the environment. *Provide the method used to determine the amount(s)*.
 March 31, 2015 48.8 lbs VOC/day calculated using grab air sample concentration and instantaneous measured flowrate
 April 1, 2015 6.4 lbs VOC/day calculated using grab air sample concentration and instantaneous measured flowrate
- a. Was this incident a release to the air, water, or land involving a DNREC permit(s)? (Note that while permitted releases are exempt from the Reporting Regulation, releases above permitted quantities and above the Reporting Regulation Delaware Reportable Quantity must be reported.)
 - [] YES [X] NO
 - List all applicable DNREC Permit Number(s): Air permit waiver letter dated March 23, 2015 - UST ID#3-000541/LUST ID#N8708035

9.

INITIAL NOTIFICATION/REPORTING INFORMATION

Indicate when the Initial Notification was made to each of the following:

a. Department of Natural Resources & Environmental Control (DNREC): (also serves as a DE -SERC Notification) [1-800-662-8802] Reporting

Date: April 13, 2015 Time: 16:17 Person: Ken Hannon (BrightFields)

The CALL BACK NUMBER GIVEN: 302 656-9600

b. Affected Delaware LEPC Circle at least one: (Wilmington) (New Castle County) (Kent County) (Sussex County)

Date: _____ Time: _____

(1-866-274-0884)

Reporting

c. NATIONAL RESPONSE CENTER: (1-800-424-8802)

Date: _____ Time: _____ Person: _____

d. Did you call "911" (only if needed): Date: _____ Time: _____

All releases involving substances which are listed with reportable quantities in the Delaware "Regulation for the Reporting of a Discharge of a Pollutant or an Air Contaminant" must be reported to the DNREC number as defined in Section 2 of the Regulation [While DNREC agencies may participate as a result of a 911 call, calling 911 is not notification to DNREC].

State of Delaware 6028 Incident Report Part I

10. CHRONOLOGY OF EVENTS

Description of Incident and Actions taken to respond to and contain the discharge, including precautions taken, evacuation (both on-site and off-site), and sheltering-in-place:

Soil vapor extraction (SVE) with catalytic oxidizer (CatOx) remediation system initially started on March 30, 2015 at approximately 13:30. Conducted system operations check and air compliance sampling March 31, 2015 and April 1, 2015. Analytical results received and emissions calculated on April 13, 2015.

Field engineer shut-off system on April 13, 2015 to check catalyst levels and to open a manual dilution valve which will decrease contaminant concentrations to the system. System currently down, awaiting approval from DNREC to restart.

During April 6, 2015 system check, the tubing used to collect system effluent air samples was found to be potentially contaminated. This tubing was used to collect the March 31 and April 1 samples. A field blank (ambient air samples) was collected to determine the impact of the potentially contaminated tubing could have on the previously collected samples. The laboratory analysis of this sample has not been completed.

Were there any injuries or deaths onsite or off-site? No If yes, explain:

11. Explain any known or anticipated acute or chronic health risks associated with the emergency and, where appropriate, advice given regarding medical attention necessary for exposed individuals:

There are no known or anticipated acute of chronic health risks associated with this emissions exceedance.

State of Delaware 6028 Incident Report Part II

Information contained in this Report shall be made available to appropriate State of Delaware Local Emergency Planning Committees, the State Emergency Response Commission or to interested public, except where such information is of confidential nature as defined in 29 <u>Del. C.</u> Section 100 and further defined in 7 <u>Del. C.</u> Section 6014. If confidentiality for Part II or a designated section or enclosure is requested, please check here and mark the appropriate information as 'confidential':

12. The facts and circumstances leading to the environmental release including a detailed identification of the pathway through which the discharge occurred and potential environmental impacts:

The SVE/CatOx system emissions exceedance occurred as part of the initial operation (start-up) of the system. The exceedance was detected during the first two system monitoring events. Emissions were to the air and are not anticipated to create any environmental impacts.

13. Measures proposed to prevent such a discharge from occurring in the future and to remedy the shortcomings, if any, in the prevention, detection, response, containment, cleanup or removal plan components. (Please provide a Timetable for any corrective actions and, if appropriate, the DNREC or Federal Program and contact name that you are working with to implement) (It is understood that refinery flaring is a safety procedure. However, large flaring incidents could be due to safety shortcomings and should be reviewed with this in mind.)

The CatOx catalyst levels will be checked and refilled, if necessary. The system will be restarted with a manual dilution valve partially open; this will limit the concentration of VOC's to the CatOx and should allow for more thorough destruction of contaminants.

PRINT	Kenneth Hannon	т	TITLE	Engineering Program Manager
SIGNATUR	E Kyntha	DATE		April 14, 2015

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX I

MASS LOADING / EMISSIONS ESTIMATES FROM AIR BAG SAMPLES

APPENDIX I Soil Vapor Extraction System Vapor Mass Loading / Emissions Estimates Former GM Plant Wilmington, DE

		PID Readings				Laboratory Data				
Data	Mass L	oading	Mass En	nissions	Destruction	Mass L	.oading	Mass Er	nissions	Destruction
Dale	Rate		Rate		Efficiency	Rate		Rate		Efficiency
	(lbs/hr)	(lbs/day)	(lbs/hr)	(lbs/day)	(%)	(lbs/hr)	(lbs/day)	(lbs/hr)	(lbs/day)	(%)
3/30/15	1.5	36.8	0.00088	0.021	99.9%	-	-	-	-	-
3/31/15	2.4	57.1	0.084	2.0	96.5%	1.9	45.6	0.04	0.92	98.0%
4/1/15	1.4	33.1	0.0053	0.13	99.6%	1.1	26.4	0.0	0.0	100%
4/6/15	-	-	0.0033	0.079	-	0.59	14.1	-	-	-
4/13/15	1.1	25.3	0.015	0.37	98.5%	-	-	-	-	-
4/14/15	-	-	-	-	-	-	-	-	-	-
4/15/15	1.6	38.4	0.0052	0.13	99.7%	-	-	-	-	-
4/20/15	-	-	-	-	-	-	-	-	-	-
4/21/15	2.5	60.5	0.013	0.31	99.5%	-	-	-	-	-
4/23/15	-	-	-	-	-	-	-	-	-	-
4/27/15	1.7	41.5	0.012	0.28	99.3%	-	-	-	-	-
4/28/15	0.35	8.5	0.074	1.8	79.0%	0.28	6.8	0.04	0.93	86.4%
5/4/15	0.57	13.7	0.019	0.46	96.6%	-	-	-	-	-
5/7/15	0.25	6.0	0.045	1.1	81.8%	0.20	4.8	0.02	0.49	89.7%
5/7/15	0.53	12.7	0.0019	0.045	99.6%	-	-	-	-	-
5/11/15	-	-	-	-	-	-	-	-	-	-
5/14/15	1.0	24.9	0.010	0.24	99.0%	-	-	-	-	-
5/15/15	-	-	-	-	-	-	-	-	-	-
5/18/15	0.78	18.8	0.0093	0.22	98.8%	-	-	-	-	-
5/19/15	0.41	9.7	0.042	1.0	89.6%	0.34	8.2	0.02	0.46	94.4%
5/26/15	0.49	11.8	0.010	0.24	98.0%	-	-	-	-	-
6/1/15	0.66	15.9	0.0081	0.19	98.8%	-	-	-	-	-
6/8/15	0.41	9.9	0.0065	0.16	98.4%	-	-	-	-	-
6/15/15	0.37	8.8	0.0038	0.091	99.0%	-	-	-	-	-
6/16/15	0.20	4.8	0.031	0.74	84.4%	0.16	3.9	0.01	0.34	91.2%
6/22/15	0.22	5.2	0.0117	0.281	94.6%	-	-	-	-	-
6/29/15	0.24	5.7	0.0098	0.236	95.9%	-	-	-	-	-

Notes :

PID - photoionization detector

^ - 4/1/15 to 4/27/15 mass emissions assume response factor of 1 since no VOCs were detected in effluent sample laboratory analysis. Bold indicates dates in which air bags were collected for laboratory analysis.

No effluent sample was collected on 4/6/15. Mass loading values not shown for 4/6/15 due to suspected PID error. Two readings taken on 5/7/15 due to adjustment of manual dilution value.

Quarterly Monitoring Report 2nd Quarter 2015 Former General Motors Plant Wilmington, Delaware



APPENDIX J AIR BAG ANALYTICAL DATA





2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

REVISED

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

May 06, 2015

Project: Dodson Ave/2734.045.51

Submittal Date: 04/01/2015 Group Number: 1550010 PO Number: 12778 Release Number: 2734.04.51 State of Sample Origin: DE

Client Sample Description DA-EFF-033115 Grab Air DA-INF-033115 Grab Air Lancaster Labs (LL) # 7830533 7830534

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

REVISED

Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

LL Sample # AQ 7830533 LL Group # 1550010 Account # 04549

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REVISED

Sample Description: DA-EFF-033115 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

Collected:	03/31	/2015	10:58	hv	КD
COTTECLEU.	03/31	/ 2015	T0.20	Dy	ΛP

Submitted: 04/01/2015 17:00 Reported: 05/06/2015 14:21

Brightfields, Inc.
801 Industrial St.
Suite 1
Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	22	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	1,800	2	20
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	3	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509230AA	04/02/2015 2	21:38	Chin F Ly	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509330AA	04/03/2015 1	9:33	Chin F Ly	20



Analysis Report

Account

LL Sample # AQ 7830534

04549

LL Group # 1550010

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

REVISED

Sample Description: DA-INF-033115 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

Collected: 03/31/2015 11:12 by KP

Submitted: 04/01/2015 17:00 Reported: 05/06/2015 14:21

Brightfields, Inc.
801 Industrial St.
Suite 1
Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)		ppm(v)	
07090 07090 07090 07090 07090 07090	Benzene C2-C4 Hydrocarbons as propane >C4-C10 Hydrocarbons hexane Ethylbene Methane Tolwane	71-43-2 n.a. n.a. 100-41-4 74-82-8 108-88-2	0.8 130 490 0.9 2,600	J	0.5 5 0.4 2	1 1 1 1 20
07090	Xylene (total)	1330-20-7	N.D. 2		0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509230AA	04/02/2015 22:08	Chin F Ly	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509330AA	04/03/2015 20:02	Chin F Ly	20



Analysis Report

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Quality Control Summary

Client Name: Brightfields, Inc. Reported: 05/06/2015 14:21 Group Number: 1550010

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	RPD <u>Max</u>
Batch number: M1509230AA	Sample nu	mber(s): 78	30533-7830	534				
Benzene	N.D.	0.5	ppm(v)	84	81	75-111	4	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	80	79	59-159	2	30
Toluene	N.D.	0.8	ppm(v)	99	100	77-143	1	30
Xylene (total)	N.D.	0.7	ppm(v)	84	81	70-134	4	30
Batch number: M1509330AA	Sample nu	mber(s): 78	30533-7830	534				
Methane	N.D.	2.	ppm(v)					

*- Outside of specification

(2) The unspiked result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.
Environmental Analysis Request/Chain of Custody



Seurofins Lancaster Laboratories

Environmental

Acct. # 4549	For Eurofins Lancaster Laboratories Environmental use only	34
	Instructions on reverse side correspond with circled numbers.	

1 Client Information		4 Matrix						(5)	Analysis Requested							For Lab Use Only			
Client: Bright Fields, Inc.	Acct. #:							Π				Preser	vatio	ו Code	S			FSC:	27755
Project Namo/#:	DWSD #																	SCR#: / / /	48/
Dodson Ave/2734.04.51	F W3ID #.					Dung	face			13)	18							Preservatio	n Codes =Thiosulfate
Project Manager:	P.O. #:	אברנ			mer	Ъ В	Sur		્રે	8	lod							N=HNO ₃ B	=NaOH
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Kelly POWER	Quote #:				Ś	ole [ntair	1eth	Mi	M							(6) Rema	rks
Name of state where samples were collected:			3	te		otat	AIA	S	Ś	C4	- 01							CUST Sta	1
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8) Data Package Options (circle if required)			Reling	lished	by		$-\times$			Date	μg	Time	Re	ceived by		7-0	<u></u>	Date/	Time
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level								
N.D.	none detected	MPN	Most Probable Number								
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units								
IU	International Units	NTU	nephelometric turbidity units								
umhos/cm	micromhos/cm	ng	nanogram(s)								
С	degrees Celsius	F	degrees Fahrenheit								
meq	milliequivalents	lb.	pound(s)								
g	gram(s)	kg	kilogram(s)								
μg	microgram(s)	mg	milligram(s)								
mL	milliliter(s)	L	liter(s)								
m3	cubic meter(s)	μL	microliter(s)								
		pg/L	picogram/liter								
<	less than										
>	greater than										
ppm	parts per million - One ppm is equivalent to one aqueous liquids, ppm is usually taken to be equivery close to a kilogram. For gases or vapors,	arts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For queous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight ery close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.									
ppb	parts per billion										
Dry weight basis	Results printed under this heading have been a concentration to approximate the value present	adjusted for moi in a similar sar	sture content. This increases the analyte weight nple without moisture. All other results are reported on an								

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.





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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

May 06, 2015

Project: Dodson Ave/2734.045.51

Submittal Date: 04/02/2015 Group Number: 1550427 PO Number: 12778 Release Number: 2734.04.51 State of Sample Origin: DE

<u>Client Sample Description</u> DA-EFF-040115 Grab Air DA-INF-040115 Grab Air Lancaster Labs (LL) # 7832552 7832553

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





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REVISED

Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

Account

LL Sample # AQ 7832552

04549

LL Group # 1550427

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Sample Description: DA-EFF-040115 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

Collected: 04/01/2015 10:52 by KP

Submitted: 04/02/2015 17:25 Reported: 05/06/2015 14:13

Brightfields, Inc.
801 Industrial St.
Suite 1
Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	N.D.	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	390	2	1
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	e	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509330AA	04/03/2015	20:32	Chin F Ly	1



Analysis Report

LL Sample # AQ 7832553 LL Group # 1550427 Account # 04549

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Sample Description: DA-INF-040115 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

"ollected:	04/01	/2015	11:08	hv	КD
COTTECLEU	04/01	/ 2013	TT • 0 0	Dy	ĸР

Submitted: 04/02/2015 17:25 Reported: 05/06/2015 14:13

Brightfields, Inc.
801 Industrial St.
Suite 1
Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090 07090 07090 07090 07090 07090 07090	Benzene C2-C4 Hydrocarbons as propane >C4-C10 Hydrocarbons hexane Ethylbenzene Methane Toluene	71-43-2 n.a. n.a. 100-41-4 74-82-8 108-88-3	0.8 J 130 460 1 2,900 1	0.5 5 0.4 2 0.8	1 1 1 20 1
07090	Xylene (total)	1330-20-7	4	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509330AA	04/03/2015 21:02	Chin F Ly	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1509630AA	04/06/2015 22:51	Chin F Ly	20



Analysis Report

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Quality Control Summary

Client Name: Brightfields, Inc. Reported: 05/06/2015 14:13 Group Number: 1550427

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: M1509330AA	Sample nu	mber(s): 78	32552-7832	2553				
Benzene	N.D.	0.5	ppm(v)	88	85	75-111	3	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	83	82	59-159	1	30
Methane	N.D.	2.	ppm(v)					
Toluene	N.D.	0.8	ppm(v)	107	105	77-143	2	30
Xylene (total)	N.D.	0.7	ppm(v)	80	85	70-134	6	30
Batch number: M1509630AA	Sample nu	mber(s): 78	32553					
Methane	N.D.	2.	ppm(v)					

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody 🐝 eurofins



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For Eurofins Lancaster Laboratories Environmental use only Group # 25 0 4 2 Sample # 28 32 5 - - 5 3 Instructions on reverse side correspond with circled numbers. Acct. # 4549

1 Client Information			(4)	Matri	X			5			Analys	s Req	ueste	ed			For Lab U	se Only			
Client: Birightfields, Inc.	Acct. #:						٦	Π					Preser	vation	Code	S			FSC:		
Project Name/#:	DW/SID #				1											-			SCR#:		
Dodson Ave/2734.04.5-1	F W SID #.				Ļ	nnd	a				B	3							Pres	ervatior	Codes
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Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level								
N.D.	none detected	MPN	Most Probable Number								
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units								
IU	International Units	NTU	nephelometric turbidity units								
umhos/cm	micromhos/cm	ng	nanogram(s)								
С	degrees Celsius	F	degrees Fahrenheit								
meq	milliequivalents	lb.	pound(s)								
g	gram(s)	kg	kilogram(s)								
μg	microgram(s)	mg	milligram(s)								
mL	milliliter(s)	L	liter(s)								
m3	cubic meter(s)	μL	microliter(s)								
		pg/L	picogram/liter								
<	less than										
>	greater than										
ppm	parts per million - One ppm is equivalent to one aqueous liquids, ppm is usually taken to be equivery close to a kilogram. For gases or vapors,	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.									
ppb	parts per billion										
Dry weight basis	Results printed under this heading have been a concentration to approximate the value present	adjusted for moi in a similar sar	sture content. This increases the analyte weight nple without moisture. All other results are reported on an								

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.





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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

May 06, 2015

Project: Dodson Ave/2734.045.51

Submittal Date: 04/07/2015 Group Number: 1551242 PO Number: 12786 Release Number: 2734.04.51 State of Sample Origin: DE

<u>Client Sample Description</u> DA-AA-040615 Grab Air DA-INF-040615 Grab Air Lancaster Labs (LL) # 7836929 7836930

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





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Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

LL Sample # AQ 7836929

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: DA-AA-040615 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

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υC	JΤ	rected.	04/00	/ 2015	10.02	DY 1	ΛP

Submitted: 04/07/2015 17:35 Reported: 05/06/2015 14:54

			Dampro		×	,050	
		\mathbf{LL}	Group	#	155	1242	
		Aco	count	#	045	49	
,	Inc.						

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	N.D.	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	N.D.	2	1
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1
The ithe s	reporting limit for Xylene (total) sample matrix.	was raised due	e to interference from		

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
07090	BTEX/MTBE/Hydrocarbons by	EPA 18 mod/EPA 25	1	M1509730AA	04/07/2015	22:30	Chin F Ly	1
	GC	mod						



Analysis Report

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Sample Description: DA-INF-040615 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

Collected:	04/06	/2015	10:25	bv	КÞ
			TO . D O		T C T

Submitted: 04/07/2015 17:35 Reported: 05/06/2015 14:54

LL	Sample	#	AQ 7	7836930
\mathbf{LL}	Group	#	1551	242
Acc	ount	#	0454	19

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090 07090	Benzene C2-C4 Hydrocarbons as propane	71-43-2 n.a.	1 130	0.5 5	1
07090 07090	>C4-C10 Hydrocarbons hexane	n.a. 100-41-4	440 2	5 0.4	1
07090	Methane	74-82-8	2,500	2	10
07090	Xylene (total)	1330-20-7	5 6	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	3	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by	EPA 18 mod/EPA 25	1	M1509730AA	04/07/2015 2	23:00	Chin F Ly	1
	GC	mod						
07090	BTEX/MTBE/Hydrocarbons by	EPA 18 mod/EPA 25	1	M1509830AA	04/08/2015 2	21:51	Chin F Ly	10
	GC	mod						



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Group Number: 1551242

Client Name: Brightfields, Inc. Reported: 05/06/2015 14:54

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: M1509730AA	Sample nu	mber(s): 78	36929-7836	5930				
Benzene	N.D.	0.5	ppm(v)	92	88	75-111	4	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	86	85	59-159	1	30
Methane	N.D.	2.	ppm(v)					
Toluene	N.D.	0.8	ppm(v)	112	106	77-143	5	30
Xylene (total)	N.D.	0.7	ppm(v)	93	89	70-134	4	30
Batch number: M1509830AA	Sample nu	mber(s): 78	36930					
Methane	N.D.	2.	ppm(v)					

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster	Laboratories
Environme	ental

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Acct. # 4549 For Eurofins Lancaster Laboratories Environmental use only Group # 1551292 Sample # 7836929 Instructions on reverse side correspond with circled humbers.

1) Client Informatio				4	Matrix		Ţ	5		A	nalysis	Requested				Fo	For Lab Use Only			
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Type III (Reduced non-CLP) TX TRR	- 13				l f	EDD R	equire	d?	Yes	No	>		Reli	nqui sh PS	ea b	FodEv	mercia	ai Carrier Other	•	
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NYSDEC Category A or B MA MCF	CT	RCP		(If yes	s, indic	ate QC san	nple and	d subm	it triplic	· cate sa	mple v	olume.)		Ter	nper	ature u	pon re	eceipt 🦯	OPT	_°C

Eurofins Lancaster Laboratories Environmental, LLC 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

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Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one aqueous liquids, ppm is usually taken to be equivery close to a kilogram. For gases or vapors,	e milligram per k uivalent to millig one ppm is equ	kilogram (mg/kg) or one gram per million grams. For rams per liter (mg/l), because one liter of water has a weight ivalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been a concentration to approximate the value present	adjusted for moi in a similar sar	sture content. This increases the analyte weight nple without moisture. All other results are reported on an

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

May 06, 2015

Project: Dodson Ave/2734.04.51

Submittal Date: 04/29/2015 Group Number: 1557294 PO Number: 12786 Release Number: 2734.04.51 State of Sample Origin: DE

Client Sample Description DA-EFF-042815 Grab Air DA-INF-042815 Grab Air Lancaster Labs (LL) # 7867339 7867340

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





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Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: DA-EFF-042815 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

	1	lected:	04/	28	/2015	14:20	hv	КD
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Submitted: 04/29/2015 18:15 Reported: 05/06/2015 15:31

\mathbf{LL}	Sample	#	AQ	7867339
\mathbf{LL}	Group	#	155	57294
Aco	count	#	045	549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	18	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	2	0.4	1
07090	Methane	74-82-8	520	20	10
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1512030AA	04/30/2015 23:01	Chin F Ly	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1512130AA	05/01/2015 21:30	Chin F Ly	10



Analysis Report

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Sample Description: DA-INF-042815 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

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ιu	ノエ	Tecleat	04/20	/ 2015	14.30	Dy	RΡ

Submitted: 04/29/2015 18:15 Reported: 05/06/2015 15:31

\mathbf{LL}	Sample	#	AQ	7867340
\mathbf{LL}	Group	#	155	57294
Account		#	045	549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)		ppm(v)	
07090	Benzene	71-43-2	0.6	J	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	20		5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	73		5	1
07090	Ethylbenzene	100-41-4	0.5	J	0.4	1
07090	Methane	74-82-8	560		20	10
07090	Toluene	108-88-3	N.D.		0.8	1
07090	Xylene (total)	1330-20-7	1	J	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1512030AA	04/30/2015 23:31	Chin F Ly	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1512130AA	05/01/2015 21:59	Chin F Ly	10



Analysis Report

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Quality Control Summary

Group Number: 1557294

Client Name: Brightfields, Inc. Reported: 05/06/2015 15:31

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: M1512030AA	Sample nu	mber(s): 78	67339-7867	7340				
Benzene	N.D.	0.5	ppm(v)	90	77	75-111	16	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	81	78	59-159	5	30
Toluene	N.D.	0.8	ppm(v)	103	98	77-143	5	30
Xylene (total)	N.D.	0.7	ppm(v)	88	83	70-134	б	30
Batch number: M1512130AA	Sample nu	mber(s): 78	67339-7867	7340				
Methane	N.D.	2.	ppm(v)					

*- Outside of specification

(2) The unspiked result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

Environmental Analysis Request/Chain of Custody



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s	
	Lancaster Laboratories

Environmental

Acct. # 4549 For Eurofins Lancaster Laboratories Environmental use only Group # 1557294 Sample # 7567339-40Instructions on reverse side correspond with circled numbers.

(1) Client Information	on				(4)	Matrix			5		A	naly	sis F	Requ	este	d			For Lab Use	Only	
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(8) Data Package Options (circle if required)			NIV	M	XU	¥UI	M	W		412	19115	1150	5	L	l	120	lale	n	v 1.0	1. 19 13	al
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NYSDEC Category A or B MA MCF	р сті	RCP		Sit	te-Sp	ecific QC	(MS/I	MSD/	Dup)?	Y Y	es	$\mathbb{N}_{\mathbb{O}}$			Te	mper	ature	upor	n receipt 🛛 🦂	//A ∘c	;
	011			(If yes	, indica	ate QC samp	le and	submi	t triplica	ate san	nple vo	olume.)									

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Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one aqueous liquids, ppm is usually taken to be equivery close to a kilogram. For gases or vapors,	e milligram per k uivalent to millig one ppm is equ	kilogram (mg/kg) or one gram per million grams. For rams per liter (mg/l), because one liter of water has a weight ivalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been a concentration to approximate the value present	adjusted for moi in a similar sar	sture content. This increases the analyte weight nple without moisture. All other results are reported on an

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.





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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

June 05, 2015

Project: Dodson Ave/2734.045.51

Submittal Date: 05/08/2015 Group Number: 1559860 PO Number: 12778 Release Number: 2734.04.51 State of Sample Origin: DE

Client Sample Description DA-EFF-030715 Grab Air DA-INF-030715 Grab Air Lancaster Labs (LL) # 7880658 7880659

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





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Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

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Sample Description: DA-EFF-030715 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

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Submitted: 05/08/2015 17:45 Reported: 06/05/2015 12:48

LL Sample	#	AQ 7880658
LL Group	#	1559860
Account	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name CAS Number R		Result	Method Detection Limit	Dilution Factor		
Volati	les in Air EPA 18 mod	l/EPA 25 mod	ppm(v)	ppm(v)			
07090	Benzene	71-43-2	N.D.	0.5	1		
07090	C2-C4 Hydrocarbons as propane	n.a.	17	5	1		
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1		
07090	Ethylbenzene	100-41-4	N.D.	0.4	1		
07090	Methane	74-82-8	530	20	10		
07090	Toluene	108-88-3	N.D.	0.8	1		
07090	Xylene (total)	1330-20-7	N.D.	0.7	1		
The h	holding time was not met.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	e	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1513530AA	05/15/2015	16:53	Jeffrey B Smith	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1515230AA	06/02/2015	00:51	Michael A Ziegler	10



Analysis Report

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Sample Description: DA-INF-030715 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.045.51

51	loatod	· 05	/07	/2015	13.20	hv	КD
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Submitted: 05/08/2015 17:45 Reported: 06/05/2015 12:48

LL Sample	#	AQ 7880659
LL Group	#	1559860
Account	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	:	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	l/EPA 25 mod	ppm(v)		ppm(v)	
07090	Benzene	71-43-2	N.D.		0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	20		5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	71		5	1
07090	Ethylbenzene	100-41-4	0.5	J	0.4	1
07090	Methane	74-82-8	530		20	10
07090	Toluene	108-88-3	N.D.		0.8	1
07090	Xylene (total)	1330-20-7	2	J	0.7	1
The ł	olding time was not met.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1513530AA	05/15/2015 17:23	Jeffrey B Smith	1
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1515230AA	06/02/2015 01:20	Michael A Ziegler	10



Analysis Report

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Quality Control Summary

Group Number: 1559860

Client Name: Brightfields, Inc. Reported: 06/05/2015 12:48

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: M1513530AA	Sample nu	mber(s): 78	80658-7880	659				
Benzene	N.D.	0.5	ppm(v)	98	100	75-111	2	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	83	89	59-159	7	30
Toluene	N.D.	0.8	ppm(v)	115	121	77-143	5	30
Xylene (total)	N.D.	0.7	ppm(v)	87	93	70-134	7	30
Batch number: M1515230AA	Sample nu	mber(s): 78	80658-7880	659				
Methane	N.D.	2.	ppm(v)					

*- Outside of specification

(2) The unspiked result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

Environmental Analysis Request/Chain of Custody



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OTINS Lancaster Laboratories Acct. # 4549 For Eurofins Lancaster Laboratories Environmental use only Group # 1559860 Sample # 2880658 - 59 Instructions on reverse side correspond with circled numbers.

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Kelly POWER				 		able	DES	H.R	ontai	2-00											CPN	1
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one aqueous liquids, ppm is usually taken to be equivery close to a kilogram. For gases or vapors,	e milligram per k uivalent to millig one ppm is equ	kilogram (mg/kg) or one gram per million grams. For rams per liter (mg/l), because one liter of water has a weight ivalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been a concentration to approximate the value present	adjusted for moi in a similar sar	sture content. This increases the analyte weight nple without moisture. All other results are reported on an

Laboratory Data Qualifiers:

- B Analyte detected in the blank
- C Result confirmed by reanalysis

as-received basis.

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.





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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

June 17, 2015

Project: Dodson Ave/2734.04.51

Submittal Date: 05/20/2015 Group Number: 1562738 PO Number: 12885 Release Number: 2734.04.51 State of Sample Origin: DE

Client Sample Description DA-EFF-051915 Grab Air DA-INF-051915 Grab Air Lancaster Labs (LL) # 7895791 7895792

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

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Attn: Ken Hannon





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Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

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Sample Description: DA-EFF-051915 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

"ollected:	05	/19	/2015	11:35	hv	r KD
COTTECLEU.	05	/ エン		TT • 22	Dy	' ILP

Submitted: 05/20/2015 14:15 Reported: 06/17/2015 10:34

LL	Sample	#	AQ 7895791
\mathbf{LL}	Group	#	1562738
Acc	ount	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name CAS Numb		Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	12	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	420	2	1
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1514130AA	05/22/2015	00:46	Jeffrey B Smith	1



Analysis Report

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Sample Description: DA-INF-051915 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

a 11 - 1.	0 - / 1	0 / 0 0 1 5	11.45	1	***
Collected:	05/1	9/2015	11:45	by	KР

Submitted: 05/20/2015 14:15 Reported: 06/17/2015 10:34

LL	Sample	#	AQ 7895792
\mathbf{LL}	Group	#	1562738
Acc	count	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name CAS Number R				Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)		ppm(v)	
07090	Benzene	71-43-2	0.5	J	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	14		5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	98		5	1
07090	Ethylbenzene	100-41-4	0.6	J	0.4	1
07090	Methane	74-82-8	430		2	1
07090	Toluene	108-88-3	N.D.		0.8	1
07090	Xylene (total)	1330-20-7	2		0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by	EPA 18 mod/EPA 25	1	M1514130AA	05/22/2015 01:14	Jeffrey B Smith	1
	GC	mod					



Analysis Report

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Quality Control Summary

Group Number: 1562738

Client Name: Brightfields, Inc. Reported: 06/17/2015 10:34

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD <u>Max</u>
Batch number: M1514130AA	Sample n	umber(s): 78	395791-7895	792				
Benzene	N.D.	0.5	ppm(v)	111	110	75-111	1	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	101	103	59-159	2	30
Methane	N.D.	2.	ppm(v)					
Toluene	N.D.	0.8	ppm(v)	130	136	77-143	4	30
Xylene (total)	N.D.	0.7	ppm(v)	111	109	70-134	2	30

*- Outside of specification

(2) The unspiked result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

Environmental Analysis Request/Chain of Custody



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	Lancaster Laboratories

Acct # USU 9	For Eurofins Lancaster Laboratories Environmental use only Group # してに こつうな Sample #つちりらつりイー 9つ
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
, ju	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to on aqueous liquids, ppm is usually taken to be eq very close to a kilogram. For gases or vapors,	e milligram per l uivalent to millig one ppm is equ	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight livalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight	Results printed under this heading have been	adjusted for moi	isture content. This increases the analyte weight

basis concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Prepared for:

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

June 26, 2015

Project: Dodson Ave/2734.04.51

Submittal Date: 06/17/2015 Group Number: 1569924 PO Number: 12953 Release Number: 2734.04.51 State of Sample Origin: DE

Client Sample Description DA-EFF-061615 Grab Air DA-INF-061615 Grab Air Lancaster Labs (LL) # 7932906 7932907

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <u>http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</u>.

ELECTRONIC Brightfields, Inc. COPY TO ELECTRONIC Brightfields, Inc. COPY TO Attn: Kelly Power

Attn: Ken Hannon





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Respectfully Submitted,

Mont Maellen

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

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Sample Description: DA-EFF-061615 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

Collected: 06/16/2015 12:52 by KP

Submitted: 06/17/2015 18:45 Reported: 06/26/2015 10:47

LL	Sample	#	AQ 7932906
\mathbf{LL}	Group	#	1569924
Acc	ount	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	10	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	N.D.	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	340	2	1
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	N.D.	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	e	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1516930AA	06/18/2015	22:26	Jeffrey B Smith	1



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: DA-INF-061615 Grab Air Dodson Ave/2734.04.51

Project Name: Dodson Ave/2734.04.51

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Submitted: 06/17/2015 18:45 Reported: 06/26/2015 10:47

LL	Sample	#	AQ 7932907
LL	Group	#	1569924
Aco	count	#	04549

Brightfields, Inc. 801 Industrial St. Suite 1 Wilmington DE 19801

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Volati	les in Air EPA 18 mod	/EPA 25 mod	ppm(v)	ppm(v)	
07090	Benzene	71-43-2	N.D.	0.5	1
07090	C2-C4 Hydrocarbons as propane	n.a.	12	5	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	51	5	1
07090	Ethylbenzene	100-41-4	N.D.	0.4	1
07090	Methane	74-82-8	330	2	1
07090	Toluene	108-88-3	N.D.	0.8	1
07090	Xylene (total)	1330-20-7	1 J	0.7	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ie	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M1516930AA	06/18/2015	22 : 55	Jeffrey B Smith	1



Analysis Report

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Quality Control Summary

Group Number: 1569924

Client Name: Brightfields, Inc. Reported: 06/26/2015 10:47

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		RPD
<u>Analysis Name</u>	<u>Result</u>	MDL	<u>Units</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	Max
Batch number: M1516930AA	Sample nu	mber(s): 79	32906-7932	2907				
Benzene	N.D.	0.5	ppm(v)	97	91	75-111	6	30
C2-C4 Hydrocarbons as propane	N.D.	5.	ppm(v)					
>C4-C10 Hydrocarbons hexane	N.D.	5.	ppm(v)					
Ethylbenzene	N.D.	0.4	ppm(v)	97	98	59-159	0	30
Methane	N.D.	2.	ppm(v)					
Toluene	N.D.	0.8	ppm(v)	121	115	77-143	5	30
Xylene (total)	N.D.	0.7	ppm(v)	111	105	70-134	6	30

*- Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



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Lancaster Laboratories

Acct. # <u>454</u> For Eurofins Lancaster Laboratories Environmental use only Group # <u>156972.4</u> Sample # <u>7932906-07</u> Instructions on reverse side correspond with circled humbers.

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Dadim Ave/2734,04.51	PWSID #:				Ļ	und			IS F	20							Preservat	ion Codes
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
, ju	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to on aqueous liquids, ppm is usually taken to be eq very close to a kilogram. For gases or vapors,	e milligram per l uivalent to millig one ppm is equ	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight livalent to one microliter per liter of gas.
ppb	parts per billion		
Dry weight	Results printed under this heading have been	adjusted for moi	isture content. This increases the analyte weight

basis concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

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V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

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