



600 Southgate Drive
Guelph ON Canada
N1G 4P6

Tel: +1.519.823.1311
Fax: +1.519.823.1316

MEMORANDUM

DATE:	2019-12-03	RWDI Reference No: 1804164
TO:	Maurice Luchich, GSAI David Scott, TMIG Brian Sutherland, Argo Development Corporation	ADDRESS/EMAIL: mauricel@gsai.ca dscott@tmig.ca brian@argoland.com
FROM:	Mike Lepage Dan Bacon	ADDRESS/EMAIL: Mike.Lepage@rwdi.com Dan.Bacon@rwdi.com
RE:	Lakeview Village Lands – Emissions from Local Industries	

In January 2019, RWDI submitted an air quality and noise land-use feasibility assessment for the proposed Lakeview Village development. Respecting air quality, we recommended further study of certain industrial facilities in the study area – specifically Filamat Composites Inc. and Plaster Form Inc. The recommended studies were as follows:

1. Community Odour Survey; and
2. Air Pollutant dispersion Modelling to assess impacts at elevated points of reception.

We initiated the community odour survey work in June 2019. We undertook the dispersion modelling to assess impacts at elevated points of reception in July 2019. The purpose of the present memo is to summarize the results with respect to Filamat Composites Inc. and Plaster Form Inc. Odour survey findings for Long Branch Foundry are also presented.

Odour Survey Methodology

To date, RWDI has conducted surveys on 16 days from June through October 2019.

The field odour surveys consisted of a human observer briefly recording odour observations at various locations in the study area. **Figure 1** shows the pre-established observation locations. In some cases when the observer detected an odour, he conducted observations at additional locations to better characterize the extent of the impact. The surveys were conducted when the weather was dry.

When the observer detected an odour, he then used a device known as a field olfactometer to quantify the magnitude in units referred to as D/T. D/T values are very similar to Odour Unit values (OU) that are derived from laboratory odour panel tests, except that they are based on a single observer in the field rather than a panel of observers in a lab. In general, when the odour value was 2 D/T or less, the

observer characterized it as "slight". When the odour value was 7 D/T or more, the observer characterized it as "strong". A value on the order of 4 was characterized as "moderate".



Figure 1: Odour Observation Locations

Odour Survey Findings

Daily summaries of the odour observer's findings to date are in **Appendix A**. Raw field notes are in **Appendix B**. Equipment calibration certificates are in **Appendix C**, and the observer's certification for this type of work is in **Appendix D**. The findings are summarized and discussed below.

The wind was predominantly from southwesterly directions on June 7, northwesterly directions on June 26, August 8 and September 26, from the south on July 11 and July 25, and from the north on August 30, 2019. Odours from Filamat Composites Inc. (880 Rangeview Road) were detected on these days and **Figure 2** shows the maximum observed odour levels. Strong odour (7 D/T) was detected at 120m away from Filamat on June 7, 2019. A moderate odour (4 D/T) was detected at approximately 380m away on August 8. Slight odours were detected at other times and locations (slight odour was detected as far as 800m from Filamat).



Figure 2: Maximum Odour Levels (D/T) Attributed to Filamat Composites Inc., to Date

Odours from Plaster Form Inc were detected on July 10 and July 25, 2019, when the wind was from the southeast and south, respectively. **Figure 3** shows the maximum odour levels that were observed. A moderate odour was detected approximately 150m away from Plaster Form's exhaust stacks, which are located along the southeast edge of the roof. A slight odour was detected approximately 250m away from the stacks. This area corresponds to Phases 3F, 3G and 3H of the Lakeview Village development concept plan (November 15, 2019).

Odours were detected near the Long Branch Foundry (at locations O and N), on July 25, August 30, September 26, and October 18, 2019 (see the daily summaries in Appendix A). In all cases, the observed odour was characterized as slight.



Figure 3: Odours (D/T) attributed to Plaster Form Inc. on July 10 and July 25, 2019

Dispersion Modelling Methodology

Emission Sources of Concern

The proposed Lakeview Village development includes several high-rise residential towers. This raises the question of whether these elevated points of reception will affect the ability of tall stacks at industrial facilities in the area to comply with air quality standards. The only observed tall stacks of concern in the area are as follows:

1. Spray booth exhaust stacks (14 to 16m tall) at Filamat Composites (880 Rangeview Road); and
2. Gelcoat, chopper and paint booth exhaust stacks (11 to 12.5m tall) at Plaster Form Inc. (1180 Lakeshore Road East). Figure 1 shows the locations of these stacks.

Dispersion Model

We used AERMOD version 16216r, which is approved by the MECP for computer simulation of air pollutant dispersion. AERMOD required information on the dimensions of the buildings on which the stacks are located. This information was estimated from Google Earth satellite imagery and street-based photographs. The building dimensions were processed for AERMOD using the Building Profile Input Program for PRIME (BPIPPRM).



Maurice Luchich
CSAI
RWDI#1804164
DECEMBER 3, 2019

Stack Parameters

AERMOD also required specific information on the tall stacks of concern. Tables 1 through 3 summarize the information, which came from the following sources:

- Amended Environmental Compliance Approval No. 8653-9ZAJWH, for Filamat Composites Inc., dated September 28, 2015 and downloaded from the MECP's Access Environment website;
- Emissions Summary and Dispersion Modelling (ESDM) Report for Filamat Composites Inc., Executive Summary, prepared by Pinchin Environmental, August 13, 2014;
- Amended Environmental Compliance Approval No. 6327-A3ARJN for Plaster Form Inc., dated October 21, 2015 and downloaded from the Access Environment website;
- ESDM Report Executive Summary for Plaster Form Inc., provided for viewing by Opi Famakin of Plaster Form Inc., on July 25, 2019.

Table 1: Stack Parameters for Filamat Composites Inc. (880 Rangeview Road)

Source ID	Spray Booth	Cutting & Spray Booth	Cutting & Spray Booth
X coordinate (m)	616286	616298	616319
Y Coordinate (m)	4825347	4825362	4825357
Base Elevation	82	82	82
Release height above grade (m)	14.4	16	14.4
Temperature [K]	298	298	298
Velocity (m/s)	16.2	16.7	13.4
Stack Diameter (m)	1.2	0.8	1.1
Emission rate (g/s)	0.247	0.247	0.247
Styrene	0.20	0.20	0.20
TSP			

Table 2: Stack Parameters for Plaster Form Inc.

Source ID ¹	Gelcoat A1	Gelcoat B1	Chopper Booth A2	Chopper Booth B2	Chopper Booth A3
X coordinate (m) ¹	616742	616743	616753	616755	616763
Y Coordinate (m) ¹	4826150	4826151	4826161	4826163	4826170
Base Elevation ¹	84	84	84	84	84
Release height (m) ²	12.5	12.5	12.5	12.5	12.5
Temperature [K] ³	298	298	298	298	298
Velocity (m/s) ²	12.5	12.5	12.5	12.5	12.5
Stack Diameter (m) ²	0.76	0.76	0.76	0.76	0.76
TSP Emission rate (g/s)	0.03	0.03	0.03	0.03	0.03

Table 3: Stack Parameters for Plaster Form Inc. (continued)

Source ID ¹	Chopper Booth B3	Gelcoat Booth	FTP Paint Booth	General Exhaust	General Exhaust	General Exhaust
X coordinate (m) ¹	616764	616736	616727	616748	616759	616770
Y Coordinate (m) ¹	4826172	4826144	4826135	4826156	4826167	4826177
Base Elevation ¹	84	84	84	84	84	84
Release height (m) ²	12.5	11	10.8	10.8	10.8	10.8
Temperature [K] ³	298	298	298	298	298	298
Velocity (m/s) ²	12.5	10.9	19.4	8.1	8.1	8.1
Stack Diameter (m) ²	0.76	0.91	0.61	0.61	0.61	0.61
TSP Emission rate (g/s)	0.03	0.03	0.03	0.03	0.03	0.03

The readily available information on pollutant emissions at Filamat Composites Inc. and Plaster Form Inc. consisted of site-wide emission rates. Emission rates for each individual stack were not available in the information sources listed above. The site-wide emissions were assumed to be evenly distributed among the individual stacks.

Precise coordinates for stack locations at Filamat Composites Inc. and Plaster Form Inc. were unavailable. They were estimated from Google Earth satellite imagery.

Meteorological Data and Terrain Data

AERMOD also requires hourly meteorological data. We used five years of hourly, raw meteorological data for Ontario's Central Region provided by the MECP. We obtained the meteorological data and digital terrain data from the MECP's website. We processed the meteorological data using the AERMET meteorological preprocessing software for AERMOD, incorporating site-specific estimates of surface geophysical parameters that depend on land use characteristics in the study area. The study area consists mainly of suburban land use and open water. For Filamat Composites Inc. and Plaster Form Inc., we used Central Region meteorological data that were pre-processed by the MECP using surface parameters for suburban land use.

Points of Reception (Receptors)

We programmed AERMOD to predict air pollutant concentrations at various heights on multi-storey components of the proposed development. The locations of the multi-storey components were based on the concept plan shown in Figure 4. We assigned ID numbers to the buildings on which elevated receptors were included in the modelling, as shown in the figure.

Figure 4: Multi-Storey Buildings on which Elevated Receptors were Modelled (Model ID No.'s in Brackets)



Removal of Meteorological Anomalies

The Air Dispersion Modelling Guideline for Ontario allows the eight hours with the highest 1-hour average predicted concentrations to be discarded for each year of the dispersion model simulation, before predicting maximum 1-hour concentrations of air contaminants. This was done.

Dispersion Model Findings

Predicted maximum concentrations of air contaminants associated with Filamat Composites Inc. are well below the provincial standards at all receptors, as summarized in Table 4.

Table 4: Predicted Maximum Styrene and TSP Concentrations for Filamat Composites Inc.

Location of Maximum Impact	UTM coordinates (m)		Height (m above grade)	Maximum Concentration ($\mu\text{g}/\text{m}^3$)	MECP Standard ($\mu\text{g}/\text{m}^3$)	Percentage of Standard (%)
Styrene - 24 hours						
Building 5 Floor 15	616580.04	4825373.98	43.5	27.81	400	7%
Total Suspended Particulate - 24 hours						
Building 5 Floor 15	616580.04	4825373.98	43.5	22.52	120	19%

Predicted maximum concentrations of air contaminants associated with Plaster Form Inc. are well below the provincial standards at all receptors, as summarized in Table 5.

Table 5: Predicted Maximum 24-hour TSP Concentrations for Plaster Form Inc.

Location of Maximum Impact	UTM coordinates (m)		Height (m above grade)	Maximum Concentration ($\mu\text{g}/\text{m}^3$)	Standard ($\mu\text{g}/\text{m}^3$)	Percentage of Standard (%)
Building 1 Floor 8	616630	4826109.	22.5	40.96	120	34%
Building 1 Floor 10	616630	4826109.	28.5	26.60	120	22%
Building 1 Floor 1	616630.	4826109	1.5	2.71	120	2%

Conclusion

- Slight odours associated with Long Branch Foundry in close proximity to the facility. No mitigation is recommended with respect to odours at this facility.
- Slight to moderate odours associated with Plaster Form Inc. were detected in the Lakeshore Gateway area of the proposed development (Areas 3F, G and H of the November 2019 phasing plan). These odours can be addressed through mitigation measures at the points of reception, such as central air conditioning for residential buildings, allowing residents to close doors and windows during odour events; potential to equip central air with carbon filtering if needed; limiting the size of balconies on the sides of the buildings facing Plaster Form Inc.
- Moderate odours associated with Filamat Composites Inc. were detected in parts of the Ogden Green area of the proposed development (Areas 1E and 2E of the November 2019 phasing plan). Slight odours were detected elsewhere around the proposed development. As previously discussed with respect to the Lakeshore Gateway area, the moderate odours in Areas 1E and 2E can be addressed through mitigation measures at the points of reception.
- Dispersion modelling of stack emissions at Plaster Form Inc. and Filamat Composites show that the emissions comply with provincial standards at all points of reception within the proposed development. No mitigation is recommended for these emissions.



APPENDIX A

Odour Summary for Lakeview Development



Date: July 18th, 2019
 Observer: Joe Frost
 Instrument ID: #2

Meteorological Field Observations

Temperature (°C):	20	Wind Direction:	SE	Cloud Cover (tenths):	10
Wind speed (km/h):	10	Relative Humidity:	84%	Barometric Pressure (kPa):	99.35
Precipitation (type):	N/A				

Location ID on Map	Location Coordinates		Time	D/T Ratio Readings	Wind Speed (km/h)	Wind Direction	Temperature (°C)	Suspected Source	Photo ID
B	17T	617028	11:24-11:29	4	10	SE	20	GE Booth	N/A
	UTM	4825888							
C	17T	616382	11:30-11:34	<2	10	SE	20	GE Booth	N/A
	UTM	4825523							
N	17T	616722	12:46-12:50	<2	10	SE	20	GE Booth	N/A
	UTM	4825823							
S	17T	616376	13:23-13:27	<2	10	SE	20	AJ Lanzarotta	N/A
	UTM	4825873							
Y	17T	616593	13:36-13:39	4	10	SE	20	Local Creek	N/A
	UTM	4826132							
V	17T	616806	13:45-13:50	2	10	SE	20	GE Booth	N/A
	UTM	4825926							
W	17T	616888	13:51-13:56	2	10	SE	20	GE Booth	N/A
	UTM	4825997							

Odour Summary for Lakeview Development



Date: August 8th, 2019
Observer: Joe Frost
Instrument ID: #2

Meteorological Field Observations

Temperature (°C): 25 Wind Direction: NW Cloud Cover (tenths): 9
Wind speed (km/h): 8 Relative Humidity: 70% Barometric Pressure (kPa): 99.27
Precipitation (type): N/A

Location ID on Map	Location Coordinates		Time	D/T Ratio Readings	Wind Speed (km/h)	Wind Direction	Temperature (°C)	Suspected Source	Photo ID
B	17T	617028	11:25-11:30	<2	8	NW	25	Filamat Composites Inc.	N/A
	UTM	4825888							
L	17T	616738	12:33-12:37	4	8	NW	25	Filamat Composites Inc.	N/A
	UTM	4825544							
M	17T	616569	12:38-12:41	<2	8	NW	25	Filamat Composites Inc.	N/A
	UTM	4825364							

Odour Summary for Lakeview Development



Date: September 19th, 2019
 Observer: Joe Frost
 Instrument ID: #2

Meteorological Field Observations

Temperature (°C):	21	Wind Direction:	SE	Cloud Cover (tenths):	1-Jan
Wind speed (km/h):	8	Relative Humidity:	68%	Barometric Pressure (kPa):	101.32
Precipitation (type):	N/A				

Location ID on Map	Location Coordinates		Time	D/T Ratio Readings	Wind Speed (km/h)	Wind Direction	Temperature (°C)	Suspected Source	Photo ID
B	17T	617028	13:33-13:38	7	8	SE	21	GE Booth	N/A
	UTM	4825888							
D	17T	617386	13:39-13:43	7	8	SE	21	GE Booth	N/A
	UTM	4825576							
T	17T	616509	15:31-15:35	2	8	SE	21	GE Booth	N/A
	UTM	4826029							
Y	17T	616593	15:37-15:41	<2	8	SE	21	GE Booth	N/A
	UTM	4826132							
X	17T	616695	15:42-15:47	<2	8	SE	21	GE Booth / Plasterform Inc.	N/A
	UTM	4826034							
V	17T	616806	15:48-15:52	4	8	SE	21	GE Booth	N/A
	UTM	4825926							
W	17T	616888	16:00-16:04	<2	8	SE	21	GE Booth	N/A
	UTM	4825997							

Odour Summary for Lakeview Development



Date: September 20th, 2019
 Observer: Joe Frost
 Instrument ID: #2

Meteorological Field Observations

Temperature (°C):	21	Wind Direction:	S	Cloud Cover (tenths):	1
Wind speed (km/h):	8	Relative Humidity:	72%	Barometric Pressure (kPa):	101.13
Precipitation (type):	N/A				

Location ID on Map	Location Coordinates		Time	D/T Ratio Readings	Wind Speed (km/h)	Wind Direction	Temperature (°C)	Suspected Source	Photo ID
B	17T	617028	13:06-13:10	7	8	S	21	GE Booth	N/A
	UTM	4825888							
C	17T	616382	13:14-13:18	<2	8	S	21	GE Booth	N/A
	UTM	4825523							
M	17T	616569	14:17-14:21	<2	8	S	21	GE Booth	N/A
	UTM	4825364							
N	17T	616722	14:30-14:34	<2	8	S	21	GE Booth	N/A
	UTM	4825823							
O	17T	616591	14:36-14:40	4	8	S	21	GE Booth	N/A
	UTM	4825654							
S	17T	616376	15:10-15:14	<2	8	S	21	AJ Lanzarotta	N/A
	UTM	4825873							
T	17T	616509	15:17-15:21	<2	8	S	21	GE Booth / Plasterform Inc.	N/A
	UTM	4826029							
W	17T	616888	15:37-15:40	<2	8	S	21	GE Booth	N/A
	UTM	4825997							

Odour Summary for Lakeview Development



Date: September 26th, 2019
Observer: Joe Frost
Instrument ID: #2

Meteorological Field Observations

Temperature (°C): 23 Wind Direction: NW Cloud Cover (tenths): 4
Wind speed (km/h): 15 Relative Humidity: 40% Barometric Pressure (kPa): 99.64
Precipitation (type): N/A

Location ID on Map	Location Coordinates		Time	D/T Ratio Readings	Wind Speed (km/h)	Wind Direction	Temperature (°C)	Suspected Source	Photo ID
E2	17T	617343	14:35-14:39	<2	15	NW	23	Filamat Composites Inc.	N/A
	UTM	4825454							
G	17T	617034	14:46-14:50	2	15	NW	23	Filamat Composites Inc.	N/A
	UTM	4825245							
I	17T	616770	15:00-15:03	2	15	NW	23	Filamat Composites Inc.	N/A
	UTM	4825263							
N	17T	616722	15:33-15:37	<2	15	NW	23	Long Branch Foundry	N/A
	UTM	4825823							

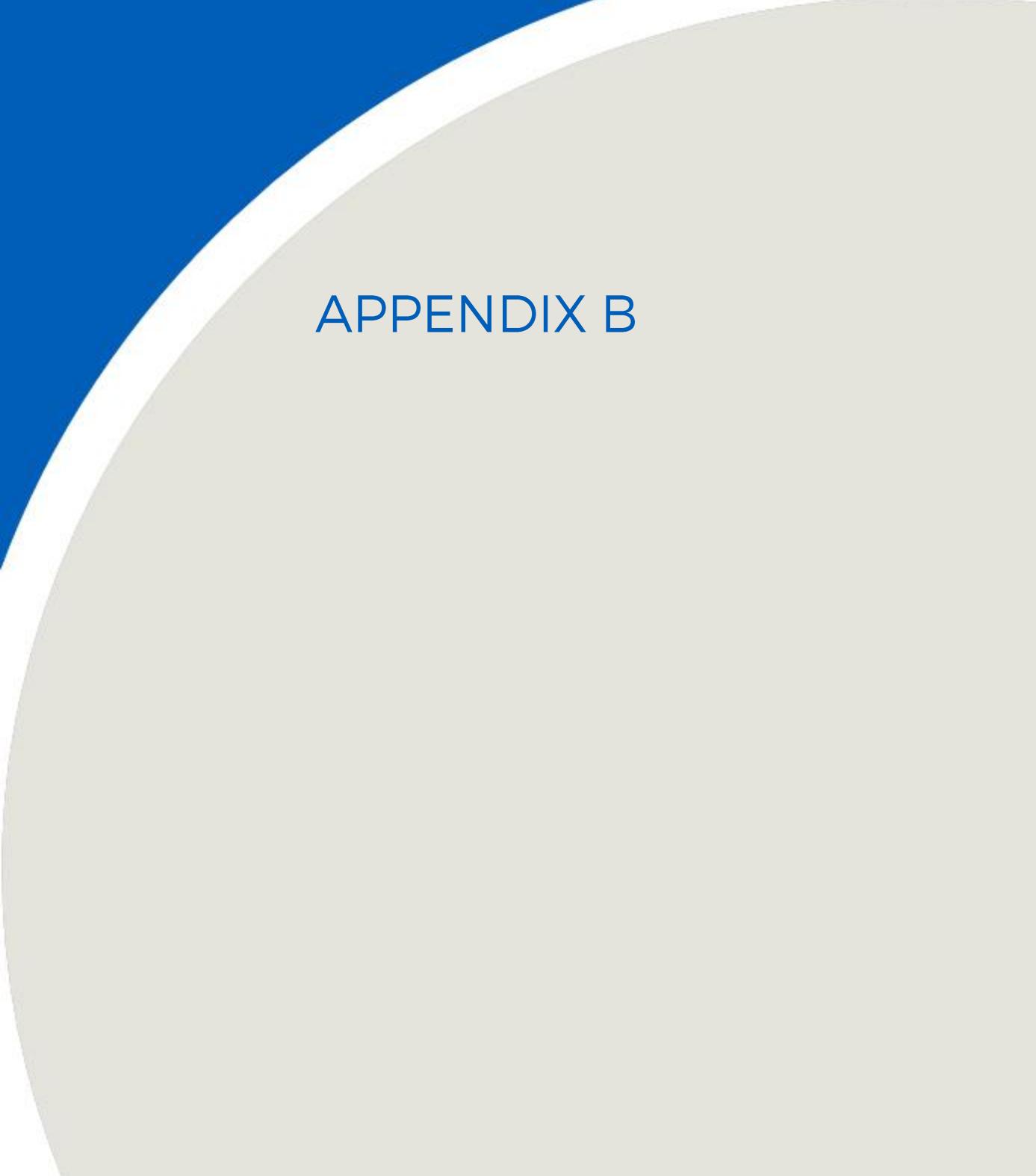
Odour Summary for Lakeview Development



Date: October 18th, 2019
Observer: Joe Frost
Instrument ID: #2

Meteorological Field Observations

Temperature (°C): 8 Wind Direction: NW Cloud Cover (tenths): 0
Wind speed (km/h): 10.5 Relative Humidity: 67% Barometric Pressure (kPa): 101.7
Precipitation (type): N/A

A large, abstract graphic element occupies the left side of the page. It consists of a white curved band that sweeps from the top-left towards the bottom-right, set against a solid blue rectangular background.

APPENDIX B

Odour Survey Field Notes

Date: 06/07/19Odour Observer: Joe FrostSignature: J. FrostTemperature (°C): 25 Wind Direction (deg. from): SW Cloud Cover (tenths): 0/10Wind speed (km/h): 10 Relative Humidity: 48% Barometric Pressure: 100.54 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	11:50 11:55	60 30 15 7 4 2 ↘	∅	∅	No odour
B			12:05 12:10	60 30 15 7 4 2 ↘	∅	∅	No odour
C			12:12 12:17	60 30 15 7 4 2 ↘	∅	∅	No odour
D			12:20 12:25	60 30 15 7 4 2 ↘	∅	∅	No odour
E			12:29 12:34	60 30 15 7 4 2 ↘	∅	∅	No odour
F			12:36 12:41	60 30 15 7 4 2 ↘	∅	∅	No odour
G			12:44 12:49	60 30 15 7 4 2 ↘	∅	∅	No odour
H			12:51 12:56	60 30 15 7 4 2 ↘	∅	∅	No odour
I			13:00 13:05	60 30 15 7 4 2 ↘	∅	∅	No odour
J			13:10 13:15	60 30 15 7 4 2 ↘	∅	∅	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

* NO STACK PLUME OR ACTIVITY FROM GE

* LAKE WAS VERY CALM

* VERY LITTLE BOAT ACTIVITY WEST OF DEVELOPMENT

Odour Observer: Joe FrostSignature: J. FrostTemperature (°C): 25 Wind Direction (deg. from) SW Cloud Cover (tenths): 0/10Wind speed (km/h): 12 Relative Humidity: 47% Barometric Pressure: 100.55 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	13:18 13:23	60 30 15 7 4 2 <2	Ø	Ø	No odour
L			13:31 13:36	60 30 15 7 4 2 <2	Ø	Ø	No odour
M			13:38 13:42	60 30 15 7 4 2 <2	Ø	Ø	No odour
N			13:53 13:58	60 30 15 7 4 2 <2	Ø	Ø	No odour
O			13:59 14:04	60 30 15 7 4 2 <2	Ø	Ø	No odour
P			14:05 14:10	60 30 15 7 4 2 <2	2 - CHEMICAL PLASTIC LIKE	F C	BASED ON WIND DIRECTION
Q			14:14 14:19	60 30 15 7 4 2 <2	2 - CHEMICAL PLASTIC LIKE	C	11
R			14:20 14:25	60 30 15 7 4 2 <2	Ø	Ø	No odour
S			14:26 14:31	60 30 15 7 4 2 <2	1 - ROTTEN VEGETABLE	E	No odour
T			14:33 14:38	60 30 15 7 4 2 <2	Ø	Ø	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: 06/07/19Odour Observer: Joe FrostSignature: Temperature (°C): 25 Wind Direction (deg. from): SW Cloud Cover (tenths): 0/10Wind speed (km/h): 12 Relative Humidity: 47% Barometric Pressure: 100.55 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	14:39 14:44	60 30 15 7 4 2 <2	∅	∅	
U			14:46 14:51	60 30 15 7 4 2 <2	∅	∅	
X			14:52 14:57	60 30 15 7 4 2 <2	∅	∅	
V			14:58 15:03	60 30 15 7 4 2 <2	∅	∅	
W		↓	15:04 15:09	60 30 15 7 4 2 <2	∅	∅	
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Odour Survey Field Notes

Date: 06/13/19Odour Observer: JDF/100Signature: Jan FeltzTemperature (°C): 13 Wind Direction (deg. from): E Cloud Cover (tenths): 10/10Wind speed (km/h): 12 Relative Humidity: 86% Barometric Pressure: 99.5 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	9:00 9:05	60 30 15 7 4 <u>②</u> <u>2</u>	WASTE WATER ODOUR (2)	D	CONSISTENT
B			9:15 9:20	60 30 15 7 4 <u>2</u> <u>2</u>	WASTE WATER ODOUR (1)	D	OFFENSIVE
Z			9:23 9:28	60 30 15 7 4 <u>②</u> <u>2</u>	CHEMICAL TREATMENT ODOUR (1)	D	STANDING IN PLUME
C			9:31 9:36	60 30 15 7 4 <u>②</u> <u>2</u>	CHEMICAL TREATMENT ODOUR (1)	D	
D			9:38 9:43	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour
E			9:47 9:52	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour
F			10:00 10:05	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour
G			10:08 10:13	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour
H			10:14 10:19	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour
I			10:21 10:24	60 30 15 7 4 <u>2</u> <u>2</u>	Ø	Ø	NO odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 06/13/19Odour Observer: JDF/100Signature: J. ThibaultTemperature (°C): 13 Wind Direction (deg. from): E Cloud Cover (tenths): 10/10Wind speed (km/h): 18 Relative Humidity: 86 % Barometric Pressure: 995 kPaPrecipitation (type): LIGHT Plume Behaviour: Follows WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
J		#2	10:26 10:31	60 30 15 7 4 2 <2	Ø	Ø	No odour
K			10:35 10:40	60 30 15 7 4 2 <2	Ø	Ø	No odour
L			10:46 10:51	60 30 15 7 4 2 <2	Ø	Ø	No odour
M			10:52 10:57	60 30 15 7 4 2 <2	Ø	Ø	No odour
N			11:04 11:09	60 30 15 7 4 2 <2	WASTE WATER ODOUR (1)	D	CONSISTENT
O			11:12 11:17	60 30 15 7 4 2 <2	WATER TREATMENT CHEMICAL ODOUR (1)	D	
P	V		11:20 11:25	60 30 15 7 4 2 <2	Ø	Ø	No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

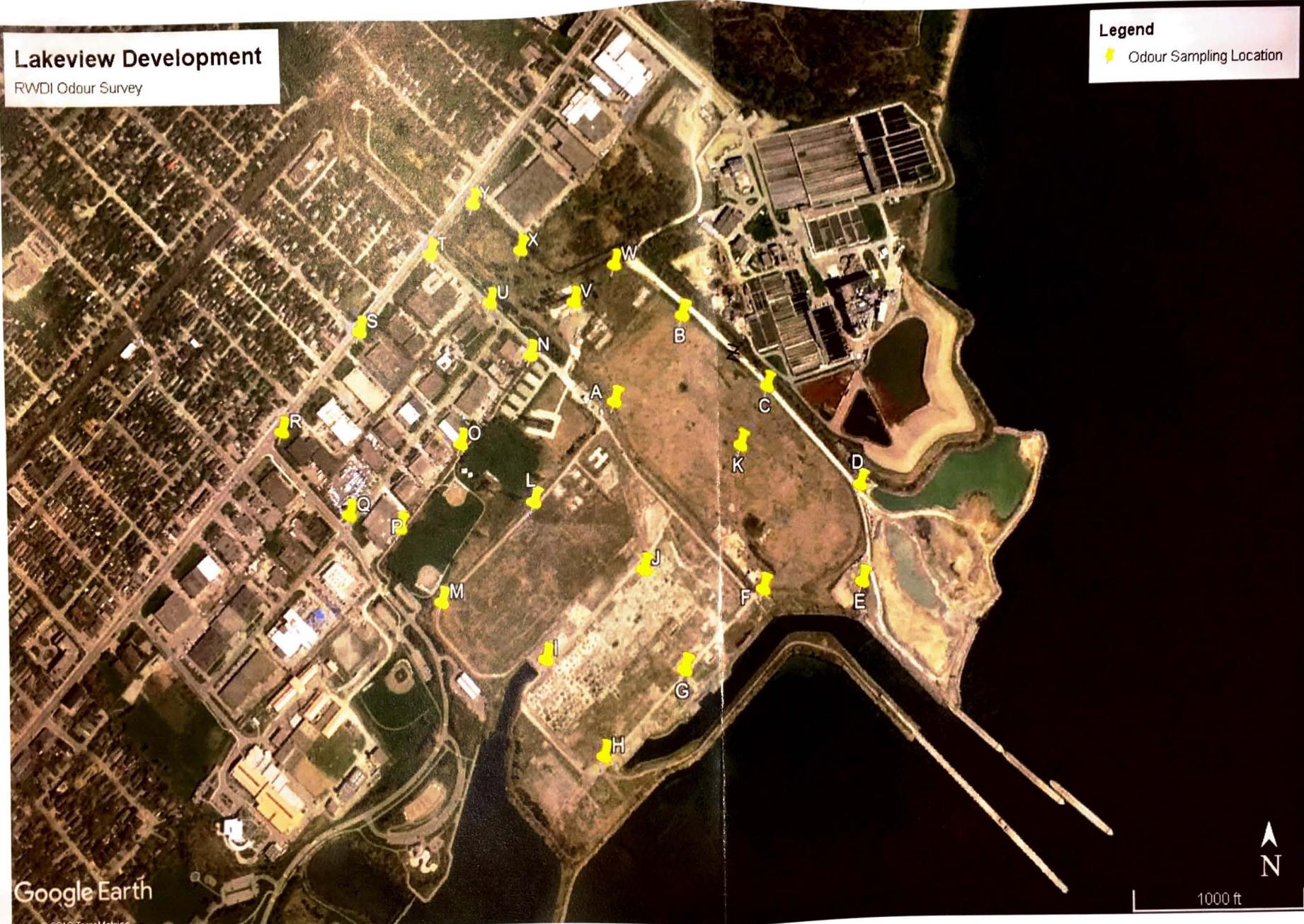
* 11:30 HEAVY RAIN, POSTPONE
THE REMAINDER OF SURVEY

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Odour Survey Field Notes

Date: 06/17/19Odour Observer: JDFSignature: Temperature (°C): 20 Wind Direction (deg. from): E Cloud Cover (tenths): 2/10Wind speed (km/h): 10 Relative Humidity: 64 % Barometric Pressure: 100.58 kPaPrecipitation (type): N/A Plume Behaviour: Focussing Wind

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	12:28 12:38	60 30 15 <u>7</u> 4 2 <2	WASTE WATER ODOUR (3)	D	
K			12:35 12:40	60 30 15 7 4 2 <u>2</u>	WASTE WATER ODOUR (1)	D	
B			12:43 12:46	60 30 15 7 4 2 <2	Ø	Ø	NO odour
C			12:47 12:52	60 30 15 7 <u>4</u> 2 <2	WASTE WATER ODOUR (2)	D	
D			12:55 13:00	60 30 15 7 4 2 <2	Ø	Ø	NO odour
E			13:02 13:06	60 30 15 7 4 2 <2	Ø	Ø	NO odour
F			13:07 13:11	60 30 15 7 4 2 <2	Ø	Ø	NO odour
G			13:13 13:18	60 30 15 7 4 2 <2	Ø	Ø	NO odour
H			13:19 13:24	60 30 15 7 4 2 <2	Ø	Ø	NO odour
I		↓	13:26 13:36	60 30 15 7 4 2 <2	Ø	Ø	NO odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: 06/17/19Odour Observer: JDF Signature: _____Temperature (°C): 20 Wind Direction (deg. from): E Cloud Cover (tenths): 1/10Wind speed (km/h): 10 Relative Humidity: 64 % Barometric Pressure: 101.29 kPaPrecipitation (type): N/A Plume Behaviour: FALCONS WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
J		#2	13:33 13:38	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
L			13:45 13:50	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
M			13:52 13:57	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
N			14:05 14:10	60 30 15 7 4 2 <2	WATER TREATMENT ODOUR (1)	D	
O			14:12 14:16	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
P			14:29 14:24	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
Q			14:25 14:30	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
R			14:31 14:34	60 30 15 7 4 2 <2	Ø Ø		NO ODOUR
S			14:36 14:40	60 30 15 7 4 2 <2	TREATMENT ODOUR (1)	D	
T			14:41 14:45	60 30 15 7 4 2 <2	WASTE WATER ODOUR (2)	D	

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 06/17/19Odour Observer: JDFSignature: J. D. F.Temperature (°C): 20 Wind Direction (deg. from): E Cloud Cover (tenths): 2/10Wind speed (km/h): 10 Relative Humidity: 64% Barometric Pressure: _____ kPaPrecipitation (type): N/A Plume Behaviour: FOLLOWS WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
	X	#2	14:46 14:50	60 30 15 7 4 2 <u>②</u>	TREATMENT CHEMICAL ODOUR (1)	D	
	X		14:51 14:54	60 30 15 7 4 2 <u>②</u>	SLIGHT SOLVENT (1)	CINTUBE	
	V		14:56 15:00	60 30 15 <u>①</u> 4 2 <2	TREATMENT CHEMICAL ODOUR (2)	D	CONSISTENT
	W		15:01 15:04	60 30 15 7 4 2 <u>②</u>	TREATMENT CHEMICAL ODOUR	D	
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Yellow dot: Odour Sampling Location



Odour Survey Field Notes

Date: 06/26/19Odour Observer: JD FSignature: J. F.Temperature (°C): 29.8 Wind Direction (deg. from) NW Cloud Cover (tenths): 5/10Wind speed (km/h): 6 Relative Humidity: 57% Barometric Pressure: 100.29 kPaPrecipitation (type): N/A Plume Behaviour: FOLLOWS WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	10:45 10:39	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
B			10:41 10:45	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
C			10:46 10:50	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
D			10:52 10:57	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
E			10:59 11:03	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
F			11:06 11:12	60 30 15 7 4 2 <2	SOLVENT (1)	C	VERY SLIGHT
G			11:15 11:20	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
H			11:21 11:25	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
I			11:26 11:30	60 30 15 7 4 2 <2	∅	∅	NO ODOUR
J		↓	11:31 11:34	60 30 15 7 4 2 <2	∅	∅	NO ODOUR

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

* SLIGHT EARTHY SMELL FROM
 TRACTOR ON MOVING SOIL - <2 DT
 PART OF DEVELOPMENT ACTIVITIES

Odour Survey Field Notes

Date: 06/26/19Odour Observer: JDFSignature: [Signature]Temperature (°C): 30 Wind Direction (deg. from): NN Cloud Cover (tenths): 5/10Wind speed (km/h): 8 Relative Humidity: 57 % Barometric Pressure: 100.24kPaPrecipitation (type): N/A Plume Behaviour: Focuss WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	11:37 11:42	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
L		.	11:45 11:50	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
M			11:51 11:56	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
N			12:05 12:09	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
O			12:11 12:16	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
P			12:18 12:22	<2 60 30 15 7 4 2 <2	SOLVENT Ø (1)	Ø C	STRONG VERY SLIGHT
Q			12:26 12:21	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
R			12:32 12:36	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
S			12:37 12:41	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
T		▼	12:42 12:46	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: 06/26/19Odour Observer: JDFSignature: [Signature]Temperature (°C): 30 Wind Direction (deg. from) NW Cloud Cover (tenths): 4/10Wind speed (km/h): 8 Relative Humidity: 57 % Barometric Pressure: 100.29 kPaPrecipitation (type): N/A Plume Behaviour: FULL ON WIND

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	12:48 12:52	60 30 15 7 4 2 <2	∅	∅	No odour
X			12:53 12:57	60 30 15 7 4 2 <2	∅	∅	No odour
V			12:58 13:02	60 30 15 7 4 2 <2	∅	✓	No odour
N		↓	13:03 13:08	60 30 15 7 4 2 <2	∅	∅	No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Google Earth

Image © 2019 TerraMetrics

N

1000 ft

Odour Survey Field Notes

Date: July 4 / 2019Odour Observer: JDFSignature: [Signature]Temperature (°C): 26 Wind Direction (deg. from): E Cloud Cover (tenths): 1/10Wind speed (km/h): 7 Relative Humidity: 63 % Barometric Pressure: 100.60 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	10:05 10:08	60 30 15 7 4 2 <input checked="" type="radio"/>	MICROCAKE odour (1)	F	
B		1	10:11 10:14	60 30 15 7 4 2 <input checked="" type="radio"/>	MICRO WASTE WATER odour (1)	D	
C			10:15 10:20	60 30 15 7 <input checked="" type="radio"/> 2 <	WASTEWATER /SEWAGE odour	D	
D			10:25 10:28	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
E			10:31 10:35	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
F			10:36 10:40	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
G			10:42 10:45	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
H			10:46 10:50	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
I			10:53 10:55	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour
J		V	11:03 11:08	60 30 15 7 4 2 <	<input checked="" type="radio"/>	<input checked="" type="radio"/>	no odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: July 4 2019Odour Observer: JDFSignature: JohnTemperature (°C): 25 Wind Direction (deg. from): E Cloud Cover (tenths): 1/10Wind speed (km/h): 7 Relative Humidity: 63 % Barometric Pressure: 100.6 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	11:18 11:18	60 30 15 7 4 2 <2	∅	∅	No odour
L			11:20 - 11:20	60 30 15 7 4 2 <2	∅	∅	No odour
M			11:26 11:31	60 30 15 7 4 2 <2	∅	∅	No odour
N			11:55 12:00	60 30 15 7 4 2 <2	WW SCUDGE (1)	D	
O			12:03 12:08	60 30 15 7 4 2 <2	∅	∅	No odour
P			12:10 12:15	60 30 15 7 4 2 <2	∅	∅	No odour
Q			12:17 12:21	60 30 15 7 4 2 <2	WW ODOUR (1)	D	
R			12:22 12:26	60 30 15 7 4 2 <2	∅	∅	No odour
S			12:28 12:32	60 30 15 7 4 2 <2	∅	∅	No odour
T			12:36 12:41	60 30 15 7 4 2 <2	∅	∅	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: July 4/2019Odour Observer: JDFSignature: [Signature]Temperature (°C): 25 Wind Direction (deg. from): E Cloud Cover (tenths): 1/10Wind speed (km/h): 7 Relative Humidity: 63 % Barometric Pressure: 100.6 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	12:42 12:47	60 30 15 7 4 2 <2	∅	∅	No odour
W V			12:51 12:55	60 30 15 7 4 2 (2)	WW CHEMICAL TREATMENT (1)	D	
W W			12:55 13:00	60 30 15 7 4 2 (2)	WW CHEMICAL TREATMENT (1)	D	VERY SLIGHT
W X			13:01 13:06	60 30 15 7 4 2 <2	∅	∅	No odour
U			13:08 13:13	60 30 15 7 4 2 <2	∅	∅	No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Odour Survey Field Notes

Date: July 10 / 2019Odour Observer: Joe FrostSignature: Temperature (°C): 30 Wind Direction (deg. from): SE Cloud Cover (tenths): 0/10Wind speed (km/h): 7 Relative Humidity: 63% Barometric Pressure: 100.45 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character and Intensity ²	Suspected Source ⁴	Comments
A		#2	12:12 12:17	60 30 15 7 4 2 2	Ø	Ø	No odour
B		/	12:19 12:24	60 30 15 7 4 2 2	CHEMICAL TREATMENT (1)	D	
C		/	12:25 12:30	60 30 15 7 4 2 2	Ø	Ø	No odour
D		/	12:33 12:38	60 30 15 7 4 2 2	CHEMICAL TREATMENT (1)	D	
E		/	12:39 12:44	60 30 15 7 4 2 2	Ø	Ø	No odour
F		/	12:45 12:50	60 30 15 7 4 2 2	Ø	Ø	No odour
G		/	12:52 12:57	60 30 15 7 4 2 2	Ø	Ø	No odour
H		/	12:58 13:03	60 30 15 7 4 2 2	Ø	Ø	No odour
I		/	13:06 13:11	60 30 15 7 4 2 2	Ø	Ø	No odour
J		/	13:16 13:19	60 30 15 7 4 2 2	Ø	Ø	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

* VERY LITTLE WIND

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: July 10 /2019Odour Observer: Joe FrostSignature: Joe FrostTemperature (°C): 26 Wind Direction (deg. from): SE Cloud Cover (tenths): 1110Wind speed (km/h): 6 Relative Humidity: 65 % Barometric Pressure: 100.03 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#Z	13:20 13:25	60 30 15 7 4 2 <2	Ø Ø		NO odour
L			13:35 13:40	60 30 15 7 4 2 <2	Ø Ø		NO odour
M			13:41 13:46	60 30 15 7 4 2 <2	Ø Ø		NO odour
N			13:56 13:55	2) CHEMICAL 60 30 15 7 4 2 <2	Ø Ø	D	NO odour
O			13:58 14:03	60 30 15 7 4 2 <2	Ø Ø		no odour
P			14:06 14:11	60 30 15 7 4 2 <2	Ø Ø		no odour
Q			14:13 14:18	60 30 15 7 4 2 <2	Ø Ø		no odour
R			14:19 14:24	60 30 15 7 4 2 <2	Ø Ø		no odour
S			14:39 14:49	60 30 15 7 4 2 <2	GARBAGE LIKE odour (2)	E	
T		✓	14:46 14:51	60 30 15 7 4 2 <2	SOLVENT PLASTIC (1)	A	

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: July 10/2019Odour Observer: Joe FrostSignature: Joe FrostTemperature (°C): 27 Wind Direction (deg. from): SE Cloud Cover (tenths): 1110Wind speed (km/h): 6 Relative Humidity: 65% Barometric Pressure: 100.45 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	14:54 14:59	60 30 15 7 ④ 2 <2	SOLVENT / CHEMICAL (2)	A	ODOUR INCREASED WHEN WALKED TOWARD PLASTERFORM
X			15:00 15:05	60 30 15 7 ④ 2 <2	WASTE WATER (2)	D	
V			15:06 15:11	60 30 15 7 4 2 ②	CHEMICAL TREATMENT (1)	D	
W		↓	15:12 15:17	60 30 15 7 4 2 <2	Ø Ø	Ø Ø	NO ODOUR
U		↓	15:18 15:23	60 30 15 7 4 2 <2	Ø Ø	Ø Ø	NO ODOUR
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes:

1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

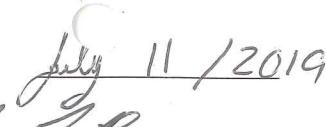
Legend
Yellow Pin: Odour Sampling Location



Odour Survey Field Notes

Date: July 11 / 2019

Odour Observer: Joe Frost

Signature: 

Temperature (°C): 24 Wind Direction (deg. from): SE Cloud Cover (tenths): 8/10

Wind speed (km/h): 7 Relative Humidity: 79% Barometric Pressure: 99.74 kPa

Precipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	10:30 10:35	60 30 15 7 4 2 <2	∅	∅	No odour
B			10:40 10:45	60 30 15 7 4 2 <2	∅	∅	No odour
C			10:48 10:53	60 30 15 7 4 2 <2	∅	∅	No odour
D			10:55 11:00	60 30 15 7 4 2 <2	∅	∅	No odour
E			11:02 11:07	60 30 15 7 4 2 <2	∅	∅	No odour
F			11:07 11:12	60 30 15 7 4 2 <2	∅	∅	No odour
K			11:37 11:42	60 30 15 7 4 2 <2	∅	∅	No odour
EJ			11:45 11:50	60 30 15 7 4 2 <2	∅	∅	No odour
AI			11:52 11:57	60 30 15 7 4 2 <2	∅	∅	No odour
H			12:00 12:05	60 30 15 7 4 2 <2	∅	∅	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

*WIND CHANGED DIRECTION
 @ 11:00 AM FROM (SE) TO (S)
 (DEG. FROM)

*PAUSED SURVEY @ 11:15
 DUE TO RAIN

*RESUMED @ 11:33

Odour Survey Field Notes

Date: July 11/19Odour Observer: Joe FrostSignature: Joe FrostTemperature (°C): 26 Wind Direction (deg. from): S Cloud Cover (tenths): 5/10Wind speed (km/h): 6 Relative Humidity: 82 % Barometric Pressure: 99.72 hPaPrecipitation (type): EARLIER Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
G		#2	12:07 12:12	60 30 15 7 4 2 ←	∅	∅	No odour
L			12:20 12:25	60 30 15 7 4 2 ←	∅	∅	No odour
M			12:27 12:32	60 30 15 7 4 2 ←	∅	∅	No odour
N(2)			12:46 12:51	60 30 15 7 4 2 ←	∅	∅	No odour
O(2)			12:54 12:59	60 30 15 7 4 2 ←	∅ Solvent (1)	C	
P(2)			13:06 13:11	60 30 15 7 4 2 ←	SOLVENT (2)	C	
Q(2)			13:12 13:17	60 30 15 7 4 2 ←	SOLVENT (1)	C	
R			13:18 13:22	60 30 15 7 4 2 ←	∅	∅	No odour
S			13:43 13:48	60 30 15 7 4 2 ←	∅	∅	No odour
T		▼	13:56 13:55	60 30 15 7 4 2 ←	∅	∅	No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

* WIND SHIFTED W (DEG FROM)
@ 12:57

Odour Survey Field Notes

Date: July 11/19Odour Observer: Joe FrostSignature: Joe FrostTemperature (°C): 26 Wind Direction (deg. from): Cloud Cover (tenths): 7/10Wind speed (km/h): 9 Relative Humidity: 80 % Barometric Pressure: 99.7 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character and Intensity ²	Suspected Source ⁴	Comments
Y			13:57 14:02	60 30 15 7 4 2 <2	Ø	Ø	No odour
X			14:08 14:13	60 30 15 7 4 2 <2	Ø	Ø	No odour
V			14:14 14:18	60 30 15 7 4 2 <2	Ø	Ø	No odour
W			14:19 14:22	60 30 15 7 4 2 <2	Ø	Ø	No odour
U	* DID NOT SAMPLE			60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Survey ended @ 14:22 due to rain



Odour Survey Field Notes

Date: July 18 / 2019Odour Observer: Joe Frost Signature: [Signature]Temperature (°C): 20 Wind Direction (deg. from): SE Cloud Cover (tenths): 10/10Wind speed (km/h): 10 Relative Humidity: 84% Barometric Pressure: 99.315 PaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	11:15 11:26	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
B		/	11:29 11:28	60 30 15 7 4 2 <2	WASTE WATER 2	D	
C		/	11:30 11:34	60 30 15 7 4 2 <2	CHEMICAL TREATMENT 2	D	
D		/	11:37 11:41	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
E		/	11:42 11:46	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
F		/	11:48 11:52	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
G		/	11:54 11:58	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
H		/	12:00 12:05	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
I		/	12:08 12:12	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR
J		/	12:15 12:19	60 30 15 7 4 2 <2	Ø	Ø	NO ODOUR

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: July 18/2019Odour Observer: Joe FrostSignature: [Signature]Temperature (°C): _____ Wind Direction (deg. from): SE Cloud Cover (tenths): 10

Wind speed (km/h): _____ Relative Humidity: _____ % Barometric Pressure: _____ kPa

Precipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	12:21 12:26	60 30 15 7 4 2 <2	∅	∅	No odour
L			12:30 12:35	60 30 15 7 4 2 <2	∅	∅	No odour
M			12:36 12:41	60 30 15 7 4 2 <2	∅	∅	No odour
N			12:46 12:50	60 30 15 7 4 2 <2	CHEMICAL TREATMENT (1)	D	
O			12:53 12:57	60 30 15 7 4 2 <2	∅	∅	No odour
P			13:00 13:04	60 30 15 7 4 2 <2	∅	∅	No odour
Q			13:06 13:10	60 30 15 7 4 2 <2	∅	∅	No odour
R			13:23 13:27	60 30 15 7 4 2 <2	Food (1)	E	
S			13:12 13:16	60 30 15 7 4 2 <2	∅	∅	
T			13:30 13:35	60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: July 18/2019Odour Observer: Joe Frost Signature: Joe Frost

Temperature (°C): _____ Wind Direction (deg. from): _____ Cloud Cover (tenths): _____

Wind speed (km/h): _____ Relative Humidity: _____ % Barometric Pressure: _____ kPa

Precipitation (type): _____ Plume Behaviour: _____

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		H2	13:36 13:39	4 60 30 15 7 4 <2	CREEK odour (2)	CREEK	.
X			13:40 13:49	60 30 15 7 4 <2	Ø	Ø	No odour
V			13:45 13:50	60 30 15 7 4 Ø <2	CHEMICAL TREATMENT (1)	D	
W			13:51 13:56	60 30 15 7 4 Ø <2	CHEMICAL TREATMENT (1)	D	
U		↓	13:57 14:00	60 30 15 7 4 <2	Ø	Ø	No odour
				60 30 15 7 4 <2			
				60 30 15 7 4 <2			
				60 30 15 7 4 <2			
				60 30 15 7 4 <2			
				60 30 15 7 4 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWMD Odour Survey



Legend

Yellow Star
Odour Sampling Location

Odour Survey Field Notes

Date:
07/25/2010

2 - Moderate

Odour Observer: Joe Fleasy
Signature: J. FleasyTemperature (°C): 24 Wind Direction (deg.
from): S Cloud Cover (tenths): 0
Wind speed (km/h): 8 Relative Humidity: 65%
% Barometric Pressure: 101.01 kPaPrecipitation (type): N/A Plume Behaviour: N/A3 - Strong
4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A	1	#2	10:57 11:02	60 30 15 7 4 2 <2			No odour
B			11:05 11:10	60 30 15 7 4 2 <2			No odour
C			11:12 11:15	60 30 15 7 4 2 <2			No odour
D			11:18 11:22	60 30 15 7 4 2 <2			No odour
E			11:24 11:28	60 30 15 7 4 2 <2			No odour
F			11:31 11:35	60 30 15 7 4 2 <2			No odour
G			11:37 11:41	60 30 15 7 4 2 <2			No odour
H			11:45 11:48	60 30 15 7 4 2 <2			No odour
I			11:50 11:54	60 30 15 7 4 2 <2			No odour
J			11:56 12:00	60 30 15 7 4 2 <2			No odour

4. Source Identifiers

A - Plaster Form Inc.
B - Long Branch Foundry
C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
F - Lake Ontario

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

Facility

0 - No odour

1 - Slight

Date:

07/25/09

2 - Moderate

Odour Observer: Joe Frost
 Signature: [Signature]

Temperature (°C): 24 Wind Direction (deg.
 from): S Cloud Cover (tenths): 0
 Wind speed (km/h): 8 Relative Humidity: 65%

% Barometric Pressure: 101.01 kPaPrecipitation (type): N/A Plume Behaviour: N/A

3 - Strong

4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		FZ	12:02 12:07	60 30 15 7 4 2 <2			No Odour
L			12:22 12:27	60 30 15 7 4 2 <2			No Odour
M			12:31 12:36	60 30 15 7 4 2 <2			No Odour
N(2)			12:45 12:50	60 30 15 7 4 2 <2			No Odour
O(2)			12:54 12:58	60 30 15 7 4 2 <2	COMBUSTION ODOUR - MILD	LONG B BRANCH FOUNDRY	
P(2)			13:02 13:06	60 30 15 7 4 2 <2	SOLVENT MILD	C	
Q(2)			13:07 13:11	60 30 15 7 4 2 <2	SOLVENT MILD	C	
R			13:12 13:16	60 30 15 7 4 2 <2			No Odour
S			13:21 13:29	60 30 15 7 4 2 <2			No Odour
T		▼	13:28 13:32	60 30 15 7 4 2 <2			No Odour

4. Source Identifiers

A - Plaster Form Inc.
 B - Long Branch Foundry
 C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
 F - Lake Ontario

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

Facility

0 - No odour

1 - Slight

Odour Survey Field Notes

Date:
07/25/10

2 - Moderate

Odour Observer: Joe Fearst
Signature: [Signature]Temperature (°C): 24 Wind Direction (deg.
from): 5 Cloud Cover (tenths): 8
Wind speed (km/h): 8 Relative Humidity: 65%% Barometric Pressure: 101.01 kPaPrecipitation (type): N/A Plume Behaviour: N/A3 - Strong
4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#Z	13:35 13:39	60 30 15 7 4 2 <2	SOLVENT - MILD	A	
X			13:43 13:48	60 30 15 7 4 2 <2			NO ODOR
✓			13:49 13:53	60 30 15 7 4 2 <2			NO ODOR
W			13:54 B-28	60 30 15 7 4 2 <2			NO ODOR
U			14:02 14:06	60 30 15 7 4 2 <2			NO ODOR
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

4. Source Identifiers

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

Facility

A - Plaster Form Inc.
B - Long Branch Foundry
C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
F - Lake Ontario

1 - Slight

Lakeview Development

RWT Survey

Legend

Odour Sampling Location



Google Earth

Image © 2019 TerraMetrics

1000 ft

Odour Survey Field Notes

Date:
8/18/2019

2 - Moderate

Odour Observer: Joe Frost
Signature: [Signature]Temperature (°C): 25 Wind Direction (deg.
from): NW Cloud Cover (tenths): 9/10
Wind speed (km/h): 8 Relative Humidity: 70%
% Barometric Pressure: 99.27 kPa
Precipitation (type): N/A Plume Behaviour: N/A3 - Strong
4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	11:25 11:30	60 30 15 7 4 2 <2			No odour
B			11:33 11:38	60 30 15 7 4 2 <2	LIGHT SOLVENT MILD	C	
C			11:40 11:45	60 30 15 7 4 2 <2			No odour
D			11:47 11:51	60 30 15 7 4 2 <2			No odour
E			11:52 11:55	60 30 15 7 4 2 <2			No odour
F			11:56 12:00	60 30 15 7 4 2 <2			No odour
G			12:02 12:05	60 30 15 7 4 2 <2			No odour
H			12:07 12:11	60 30 15 7 4 2 <2			No odour
I			12:14 12:17	60 30 15 7 4 2 <2			No odour
J			12:19 12:23	60 30 15 7 4 2 <2			No odour

4. Source Identifiers

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors
3. Odour Intensity

0 - No odour

Facility

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
F - Lake Ontario

1 - Slight

Date:
8/18/2019

2 - Moderate

Odour Observer: Joe Frost

Signature: 

Temperature (°C): 25 Wind Direction (deg.)

from): NW Cloud Cover (tenths): 9/10

Wind speed (km/h): 8 Relative Humidity: 70%

% Barometric Pressure: 99.27 kPa

Precipitation (type): N/A Plume Behaviour: N/A

3 - Strong

4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	12:28 12:29	60 30 15 7 4 2 <			No odour
L			12:33 12:38	60 30 15 7 4 2 (2)	LIGHT SOLVENT MILD	C	
M			12:38 12:41	60 30 15 7 4 2 (2)	LIGH SOLVENT MILD	C	
N			12:45 12:49	60 30 15 7 4 2 <			No odour
O			12:50 12:53	60 30 15 7 4 2 <			No odour
P			12:55 12:59	60 30 15 7 4 2 <			No odour
Q			13:00 13:05	60 30 15 7 4 2 <			No odour
R			13:04 13:07	60 30 15 7 4 2 <			No odour
				60 30 15 7 4 2 <			
			✓	60 30 15 7 4 2 <			

X STOPPED DUE TO RAIN @ 13:09

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

Facility

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Odour Survey Field Notes

Date: 08/30/19

2 - Moderate

Odour Observer: JDFSignature: [Signature]Temperature (°C): 24 Wind Direction (deg.
from): N Cloud Cover (tenths): 2/10Wind speed (km/h): 15 Relative Humidity: 48%% Barometric Pressure: 100.47 kPaPrecipitation (type): N/A Plume Behaviour: N/A

3 - Strong

4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	11:08 11:12	60 30 15 7 4 2 2	-		No odour
B			11:15 11:18	60 30 15 7 4 2 2			No odour
C			11:20 11:23	60 30 15 7 4 2 2			No odour
D			11:30 11:34	60 30 15 7 4 2 2			No odour
E			11:37 11:42	60 30 15 7 4 2 2			No odour
F			11:45 11:58	60 30 15 7 4 2 2	SOLVENT MILD	C	
G			11:53 11:58	60 30 15 7 4 2 2	EARTHY/ MILD	DEVELOPMENT RELATED	
H			12:00 12:03	60 30 15 7 4 2 2			No odour
I			12:04 12:07	60 30 15 7 4 2 2			No odour
J		↓	12:09 12:13	60 30 15 7 4 2 2			No odour

4. Source Identifiers

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

Facility

A - Plaster Form Inc.
B - Long Branch Foundry
C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
F - Lake Ontario

1 - Slight

Date: 08/30/2019

2 - Moderate

Odour Observer: JDF
Signature: [Signature]

Temperature (°C): 24 Wind Direction (deg.
from): N Cloud Cover (tenths): 2/10
Wind speed (km/h): 15 Relative Humidity: 48%

% Barometric Pressure: 100.4 kPa

Precipitation (type): N/A Plume Behaviour: N/A

3 - Strong
4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
M		#2	12:22 12:30	60 30 15 7 4 2 2			No odour
N			12:33 12:36	60 30 15 7 4 2 2	COMBUSTION SOURCE - MILD	LONG BRANCH FOUNDRY	
O			12:38 12:42	60 30 15 7 4 2 2			No odour
P			12:47 12:56	60 30 15 7 4 2 2			No odour
Q			12:52 12:54	60 30 15 7 4 2 2			No odour
R			12:56 12:59	60 30 15 7 4 2 2			No odour
S			13:06 13:03	60 30 15 7 4 2 2			No odour
T			13:05 13:09	60 30 15 7 4 2 2			No odour
Y			13:13 13:17	60 30 15 7 4 2 2			No odour
X		✓	13:19 13:22	60 30 15 7 4 2 2			No odour

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment

E - AJ Lanzarotta Wholesale Foods
F - Lake Ontario

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

Facility

0 - No odour

1 - Slight

313

Odour Survey Field Notes

Date:

08/01/19

2 - Moderate

Odour Observer: JDTSignature: [Signature]Temperature (°C): 24 Wind Direction (deg.
from): N Cloud Cover (tenths): 2/10Wind speed (km/h): 15 Relative Humidity: 48%% Barometric Pressure: 100.61 kPaPrecipitation (type): N/A Plume Behaviour: N/A

3 - Strong

4 - Extreme

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
✓			13:25 13:26	60 30 15 7 4 2 <2			No odour
W			13:27 13:30	60 30 15 7 4 2 <2			No odour
N			13:32 13:34	60 30 15 7 4 2 <2			No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

D - GE Booth Wastewater Treatment

0 - No odour

Facility

- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

1 - Slight

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Odour Survey Field Notes

Date: 09/19/19Odour Observer: JDFSignature: [Signature]Temperature (°C): 21 Wind Direction (deg. from): SE Cloud Cover (tenths): 1/10Wind speed (km/h): 8 Relative Humidity: 68 % Barometric Pressure: 10132kPaPrecipitation (type): N/A Plume Behaviour: No plume (NWTF)

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	13:25 13:29	60 30 15 7 4 2 <2			No odour
B			13:33 13:38	60 30 15 7 4 2 <2	WATER TREATMENT CHEMICALS 3	D	
C			13:39 13:43	60 30 15 7 4 2 <2	" "	D	
D ₂			13:47 13:51	60 30 15 7 4 2 <2			No odour
E ₂			13:53 13:57	60 30 15 7 4 2 <2			No odour
F			13:59 14:03	60 30 15 7 4 2 <2			No odour
G			14:06 14:10	60 30 15 7 4 2 <2			No odour
H			14:13 14:17	60 30 15 7 4 2 <2			No odour
I			14:19 14:23	60 30 15 7 4 2 <2			No odour
J			14:25 14:28	60 30 15 7 4 2 <2			No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 09/19/19Odour Observer: JDFSignature: [Signature]Temperature (°C): 21 Wind Direction (deg. from): SE Cloud Cover (tenths): 1/10Wind speed (km/h): 8 Relative Humidity: 68% Barometric Pressure: 101.32kPaPrecipitation (type): N/A Plume Behaviour: No plume (cont'd)

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K ₂		#2	14:29 14:33	60 30 15 7 4 2 <2			No odour
L			14:37 14:41	60 30 15 7 4 2 <2			No odour
M			14:43 14:50	60 30 15 7 4 2 <2			No odour
N			14:57 15:01	60 30 15 7 4 2 <2			No odour
O			15:02 15:06	60 30 15 7 4 2 <2			No odour
P			15:08 15:12	60 30 15 7 4 2 <2			No odour
Q			15:16 15:19	60 30 15 7 4 2 <2			No odour
R			15:20 15:23	60 30 15 7 4 2 <2			No odour
S			15:29 15:29	60 30 15 7 4 2 <2			No odour
T		V	15:31 15:35	60 30 15 7 4 2 <2	WW SMELL -1	D	

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: 09/19/19Odour Observer: JDFSignature: J. F.Temperature (°C): 21 Wind Direction (deg. from): SE Cloud Cover (tenths): 1/10Wind speed (km/h): 8 Relative Humidity: 68 % Barometric Pressure: 101.32 kPaPrecipitation (type): NA Plume Behaviour: NO PLUME

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	15:37 15:41	60 30 15 7 4 2 <u>2</u>	WW-CHEMICAL ODOUR -1	D	
X			15:42 15:47	60 30 15 7 4 2 <u>2</u>	WW-CHEMICAL -1 SOLVENT -1	A	
V			15:48 15:52	60 30 15 7 4 2 <2	WW-CHEMICAL -2	D	
W			15:53 15:57	60 30 15 7 4 2 <u>2</u>	WW-CHEMICAL -1	D	
U			16:00 16:04	60 30 15 7 4 2 <2			NO ODOUR
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Odour Sampling Location



Google Earth

Image © 2019 TerraMetrics

Odour Survey Field Notes

Date: 09/20/19Odour Observer: JDFSignature: J. D. F.Temperature (°C): 21 Wind Direction (deg. from): 15 Cloud Cover (tenths): 1/10Wind speed (km/h): 8 Relative Humidity: 72 % Barometric Pressure: 101.13 kPaPrecipitation (type): N/A Plume Behaviour: No plume (WWT)

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	15:00 13:13	60 30 15 7 4 2 <2			No odour
B			15:06 13:18	60 30 15 7 4 2 <2	WASTE WATER CHEMICAL TREATMENT 3	D	
C			15:14 13:18	60 30 15 7 4 2 <2	GARAGE CHEMICAL TREATMENT 1	D	
D ₂			15:21 13:24	60 30 15 7 4 2 <2			No odour
E ₂			15:27 13:30	60 30 15 7 4 2 <2			NO ODOUR
F			15:32 13:36	60 30 15 7 4 2 <2			NO ODOR
G			15:39 13:42	60 30 15 7 4 2 <2			NO ODOR
H			15:46 13:47	60 30 15 7 4 2 <2			NO ODOR
I			15:50 13:54	60 30 15 7 4 2 <2			NO ODOR
J			15:57 14:01	60 30 15 7 4 2 <2			NO ODOR

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 09/20/19Odour Observer: JDFSignature: Joe F.Temperature (°C): 21 Wind Direction (deg. from): 5 Cloud Cover (tenths): 2/10Wind speed (km/h): 8 Relative Humidity: 72% Barometric Pressure: 101.13 kPaPrecipitation (type): N/A Plume Behaviour: No plume (nearby)

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	14:02 14:06	60 30 15 7 4 2 <2			No odour
L			14:11 14:15	60 30 15 7 4 2 <2			No odour
M			14:17 14:21	60 30 15 7 4 2 (2)	SLIGHT CHEMICAL TREATMENT odour - 1	D	
N			14:30 14:34	60 30 15 7 4 2 (2)	WW ODOUR - 1	D	
O			14:36 14:40	60 30 15 7 4 2 (2) <2	WW ODOUR & CHEMICAL TREATMENT - 2	D	
P			14:43 14:47	60 30 15 7 4 2 <2			No odour
Q			14:52 14:56	60 30 15 7 4 2 <2			No odour
R			14:59 15:04	60 30 15 7 4 2 <2			No odour
S			15:10 15:14	60 30 15 7 4 2 (2)	ROTTING KEG - 1	E	
T		V	15:17 15:21	60 30 15 7 4 2 (2)	WW-CHEMICAL + SOLVENT	→ D → A	

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

X WINDS NON FROM THE SE *

- 14:05

Odour Survey Field Notes

Date: 09/20/19Odour Observer: JDFSignature: J. D. F.Temperature (°C): 21 Wind Direction (deg. from): SE Cloud Cover (tenths): 1110Wind speed (km/h): 8 Relative Humidity: 72% Barometric Pressure: 101.13 kPaPrecipitation (type): N/A Plume Behaviour: No plume

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	15:23 15:27	60 30 15 7 4 2 <2			No odour
X			15:28 15:31	60 30 15 7 4 2 <2			No odour
V			15:32 15:36	60 30 15 7 4 2 <2			No odour
W			15:37 15:40	60 30 15 7 4 2 O	WW CHEMICAL TREATMENT -1	D	
N		✓	15:41 15:45	60 30 15 7 4 2 <2			No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

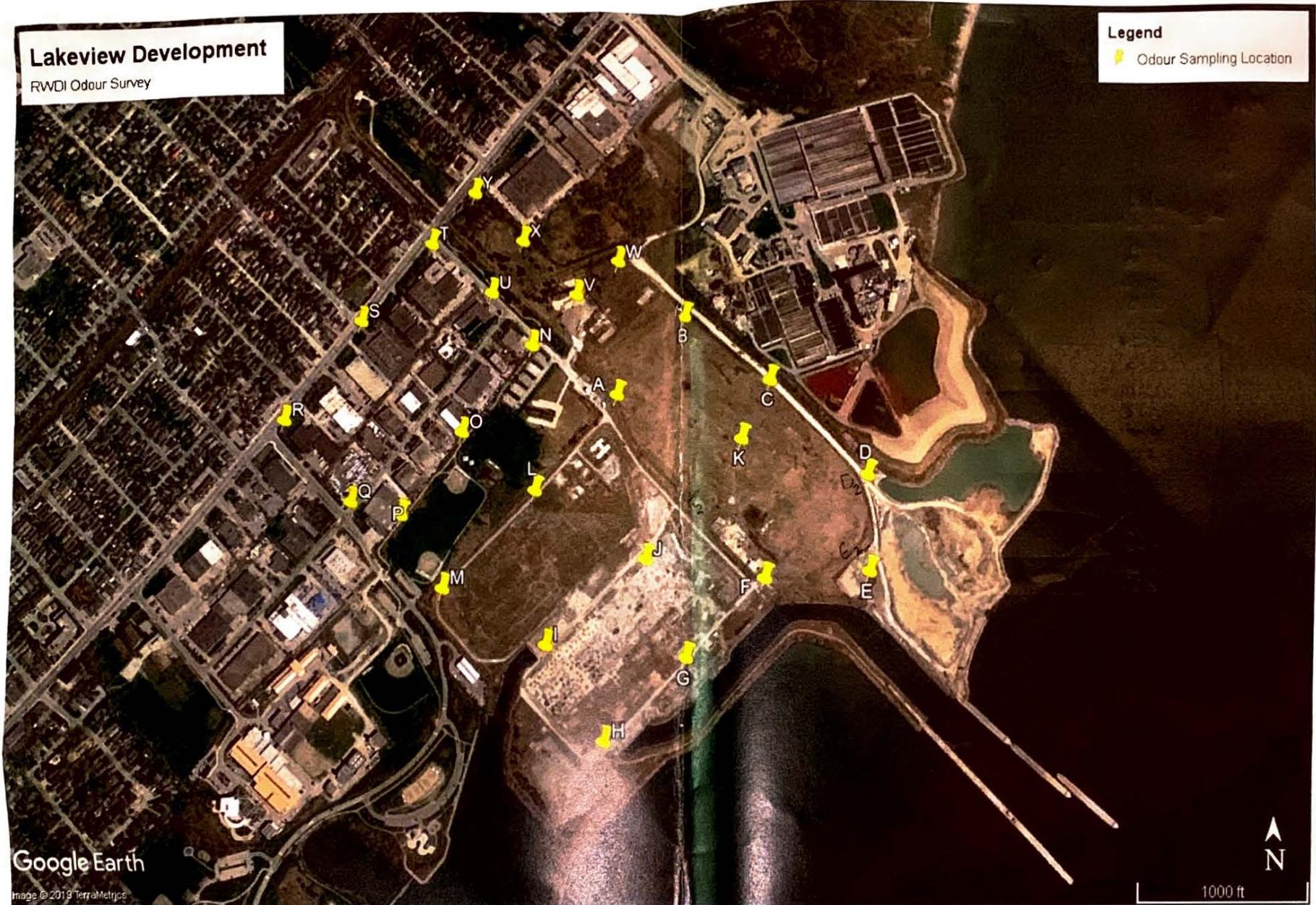
F - Lake Ontario

Lakeview Development

RWDI Odour Survey

Legend

Yellow dot: Odour Sampling Location



Google Earth

Image © 2019 TerraMetrics

N

1000 ft

Odour Survey Field Notes

Date: 09/26/19Odour Observer: JDSignature: J. ZayTemperature (°C): 23 Wind Direction (deg. from): NW Cloud Cover (tenths): 4/10Wind speed (km/h): 15 Relative Humidity: 40 % Barometric Pressure: 99.64 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		#2	14:10 14:19	60 30 15 7 4 2 <2			No odour
B			14:17 14:20	60 30 15 7 4 2 <2			No odour
C			14:21 14:24	60 30 15 7 4 2 <2			No odour
D ₂			14:28 14:31	60 30 15 7 4 2 <2			No odour
E ₂			14:35 14:39	60 30 15 7 4 2 (2)	SOLVENT-LIKE (1)	C	
F			14:40 14:43	60 30 15 7 4 2 <2			No odour
G			14:46 14:50	60 30 15 7 4 (2) <2	SOLVENT-LIKE (2)	C	
H			14:53 14:58	60 30 15 7 4 2 <2			No odour
I			15:00 15:03	60 30 15 7 4 (2) <2	SOLVENT-LIKE (2)	C	
J			15:07 15:10	60 30 15 7 4 2 <2			No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 09/26/19Odour Observer: JPLSignature: J. TressTemperature (°C): 23 Wind Direction (deg. from): NW Cloud Cover (tenths): 4 / 10Wind speed (km/h): 15 Relative Humidity: 40% Barometric Pressure: 99.64 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
K		#2	15:11 15:19	60 30 15 7 4 2 <2			No odour
L		/	15:20 15:23	60 30 15 7 4 2 <2			No odour
M		/	15:24 15:27	60 30 15 7 4 2 <2			No odour
N			15:33 15:37	60 30 15 7 4 2 <2	CONVENTION (2)	\$	
O			15:40 15:42	60 30 15 7 4 2 <2			No odour
P			15:46 15:49	60 30 15 7 4 2 <2			No odour
Q			15:52 15:55	60 30 15 7 4 2 <2			No odour
R			15:56 15:59	60 30 15 7 4 2 <2			No odour
S		/	16:00 16:03	60 30 15 7 4 2 <2			No odour
T		✓	16:07 16:11	60 30 15 7 4 2 <2			No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date:

09/20/19

Odour Observer: JDFSignature: [Signature]Temperature (°C): 23 Wind Direction (deg. from): NN Cloud Cover (tenths): 4/10Wind speed (km/h): 15 Relative Humidity: 40 % Barometric Pressure: 99.64 kPaPrecipitation (type): N/A Plume Behaviour: N/A

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
Y		#2	16:12 16:15	60 30 15 7 4 2 <2			No odour
X			16:16 16:19	60 30 15 7 4 2 <2			No odour
V			16:20 16:23	60 30 15 7 4 2 <2			No odour
W			16:24 16:26	60 30 15 7 4 2 <2			No odour
N		▼	16:27 16:30	60 30 15 7 4 2 <2			No odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Lakeview Development

RWDI Odour Survey

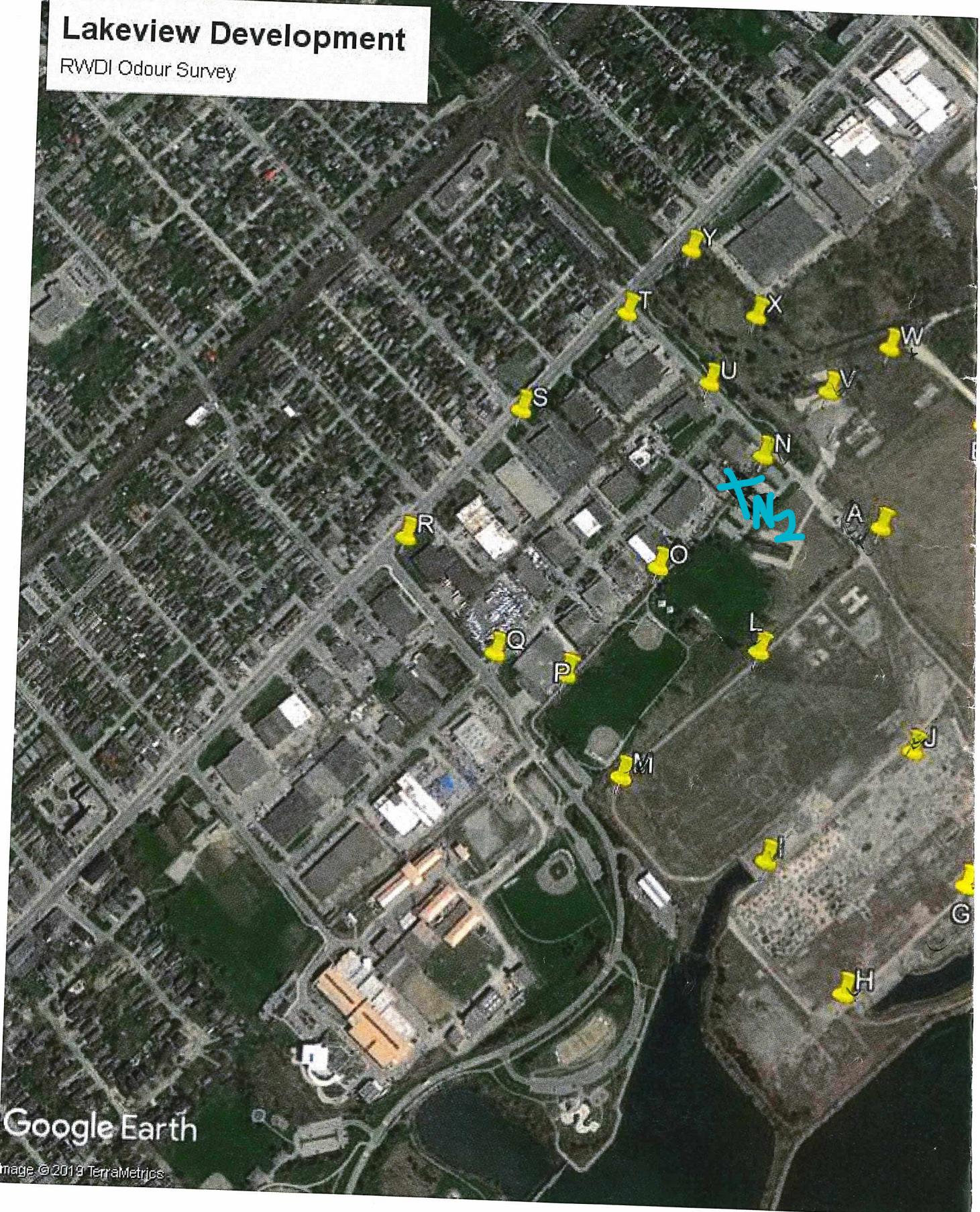
Legend

Odour Sampling Location



Lakeview Development

RWDI Odour Survey



Google Earth

Image © 2019 TerraMetrics

Odour Survey Field Notes

Date: 10/18/2013Odour Observer: Oluwatosin Odumoye Signature: [Signature]Temperature (°C): 8°C Wind Direction (deg. from): NW Cloud Cover (tenths): _____Wind speed (km/h): 10.5 Relative Humidity: 67 % Barometric Pressure: 101.7 kPa

Precipitation (type): _____ Plume Behaviour: _____

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
E		No. 1 Banger 1	11:50	60 30 15 7 4 2 (2) <2	Sewer (2)	B	Slightly Offensive
K			12:00	60 30 15 7 4 2 (2)			No Odour
N ₂			12:20	60 30 15 7 4 2 (2) <2	Chemical (2)	B	It is a bit intense
D			12:25	60 30 15 7 4 2 (2)			No odour
P			12:30	60 30 15 7 4 2 (2)			No odour
Q			12:36	60 30 15 7 4 2 (2)			No odour
R			12:40	60 30 15 7 4 2 (2)			No odour
S			12:45	60 30 15 7 4 2 (2)			No odour
T			12:50	60 30 15 7 4 2 (2)			No odour
Y			12:55	60 30 15 7 4 2 (2)			No odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 10/18/2019

Odour Observer: Oluwafobi Odumope Signature: 

Temperature (°C): 8°C Wind Direction (deg. from): NW Cloud Cover (tenths):

Wind speed (km/h): 10.5 Relative Humidity: 67% Barometric Pressure: 101.7 kPa

Precipitation (type): Plume Behaviour:

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		Nose Ranger 1	10:30	60 30 15 7 4 2 	0		No Odour
M			10:35	60 30 15 7 4 2 	0		No Odour
V			10:40	60 30 15 7 4 2 	0		No Odour
L			10:50	60 30 15 7 4 2 	Solvent Faint 1	D	NOT intense
M			10:57	60 30 15 7 4 2 	0		No Odour
I			11:05	60 30 15 7 4 2 	0		No Odour
J			11:10	60 30 15 7 4 2 	0		No Odour
F			11:25	60 30 15 7 4 2 	0		No Odour
G			11:30	60 30 15 7 4 2 	0		No Odour
H			11:35	60 30 15 7 4 2 	0		No Odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: 10/18/2019Odour Observer: Oluwafemi Odumoye Signature: Temperature (°C): 10°C Wind Direction (deg. from): NW Cloud Cover (tenths): _____Wind speed (km/h): 10 Relative Humidity: 67 % Barometric Pressure: 101.7 kPa

Precipitation (type): _____ Plume Behaviour: _____

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
X		No. 1 Range 1	13:00	60 30 15 7 4 2 <u>2</u>			No Odour
U			13:05	60 30 15 7 4 2 <u>2</u>			No Odour
V			13:10	60 30 15 7 4 2 <u>2</u>			No Odour
W			13:25	60 30 15 7 4 2 <u>2</u>			No Odour
B			13:30	60 30 15 7 4 2 <u>2</u>			No Odour
C			13:35	60 30 15 7 4 <u>2</u> <2	Chemicals 2	D	Slighty intense
D			13:40	60 30 15 7 4 2 <u>2</u>	Chemicals 1	D	
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

- 0 - No odour
- 1 - Slight
- 2 - Moderate
- 3 - Strong
- 4 - Extreme

4. Source Identifiers

- A - Plaster Form Inc.
- B - Long Branch Foundry
- C - Filamat Composites Inc.
- D - GE Booth Wastewater Treatment Facility
- E - AJ Lanzarotta Wholesale Foods
- F - Lake Ontario

Odour Survey Field Notes

Date: OCT-23-2019

Odour Observer: Olumotobi Odumoye Signature: 

Temperature (°C): 10°C Wind Direction (deg. from): SW Cloud Cover (tenths): _____

Wind speed (km/h): 16.5 Relative Humidity: 55% Barometric Pressure: 101.4 kPa

Precipitation (type): _____ Plume Behaviour: _____

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
A		Nose Ranger 1	10:15	60 30 15 7 4 2 	0		No Odour
L			10:20	60 30 15 7 4 2 	0		No Odour
M			10:25	60 30 15 7 4 2 	0		No Odour
I			10:30	60 30 15 7 4 2 	0		No Odour
J			10:35	60 30 15 7 4 2 	0		No Odour
F			10:40	60 30 15 7 4 2 	0		No Odour
G			10:45	60 30 15 7 4 2 	0		No Odour
H			10:50	60 30 15 7 4 2 	0		No Odour
E			11:00	60 30 15 7 4 2 	0		No Odour
K			11:10	60 30 15 7 4 2 	0		No Odour

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: OCT 23 - 2019

Odour Observer: Oluwatosi Odumoye Signature: 

Temperature (°C): 11°C Wind Direction (deg. from): SW Cloud Cover (tenths):

Wind speed (km/h): 16 km/h Relative Humidity: 55% Barometric Pressure: 101.4 kPa

Precipitation (type): Plume Behaviour:

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
V	Nose 1 Ranger	11:17	60 30 15 7 4 2	2	0	No Odour	
W		11:25	60 30 15 7 4 2	2	0	No Odour	
B		11:30	60 30 15 7 4 2	2	0	No Odour	
C		11:35	60 30 15 7 4 2	2	0	No Odour	
D		11:40	60 30 15 7 4 2	2	0	No Odour	
H		12:10	60 30 15 7 4 2	2	0	No Odour	
O		12:15	60 30 15 7 4 2	2	0	No Odour	
P		12:20	60 30 15 7 4 2	2	0	No Odour	
Q		12:25	60 30 15 7 4 2	2	0	No Odour	
R		12:30	60 30 15 7 4 2	2	0	No Odour	

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

Odour Survey Field Notes

Date: OCT-23-2019Odour Observer: Olumotobi Odumoye Signature: [Signature]Temperature (°C): 11°C Wind Direction (deg. from): SW Cloud Cover (tenths): 8Wind speed (km/h): 17.1 Relative Humidity: 55% Barometric Pressure: 101.4 kPa

Precipitation (type): _____ Plume Behaviour: _____

Location Code on Map ¹	Location ¹	Instrument ID	Time	D/T Ratio Readings (circle one)	Character ² and Intensity ³	Suspected Source ⁴	Comments
S		Nose1 Ranger 1	12:35	60 30 15 7 4 2 <u>2</u>	0		No Odour
T			12:40	60 30 15 7 4 2 <u>2</u>	0		No Odour
Y			12:50	60 30 15 7 4 2 <u>2</u>	0		No Odour
X			12:55	60 30 15 7 4 2 <u>2</u>	0		No Odour
U			13:07	60 30 15 7 4 2 <u>2</u>	0		No Odour
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			
				60 30 15 7 4 2 <2			

Notes: 1. Refer to site map with receptor locations. Enter corresponding receptor number or GPS coordinates.

2. Character: See descriptors

3. Odour Intensity

0 - No odour

1 - Slight

2 - Moderate

3 - Strong

4 - Extreme

4. Source Identifiers

A - Plaster Form Inc.

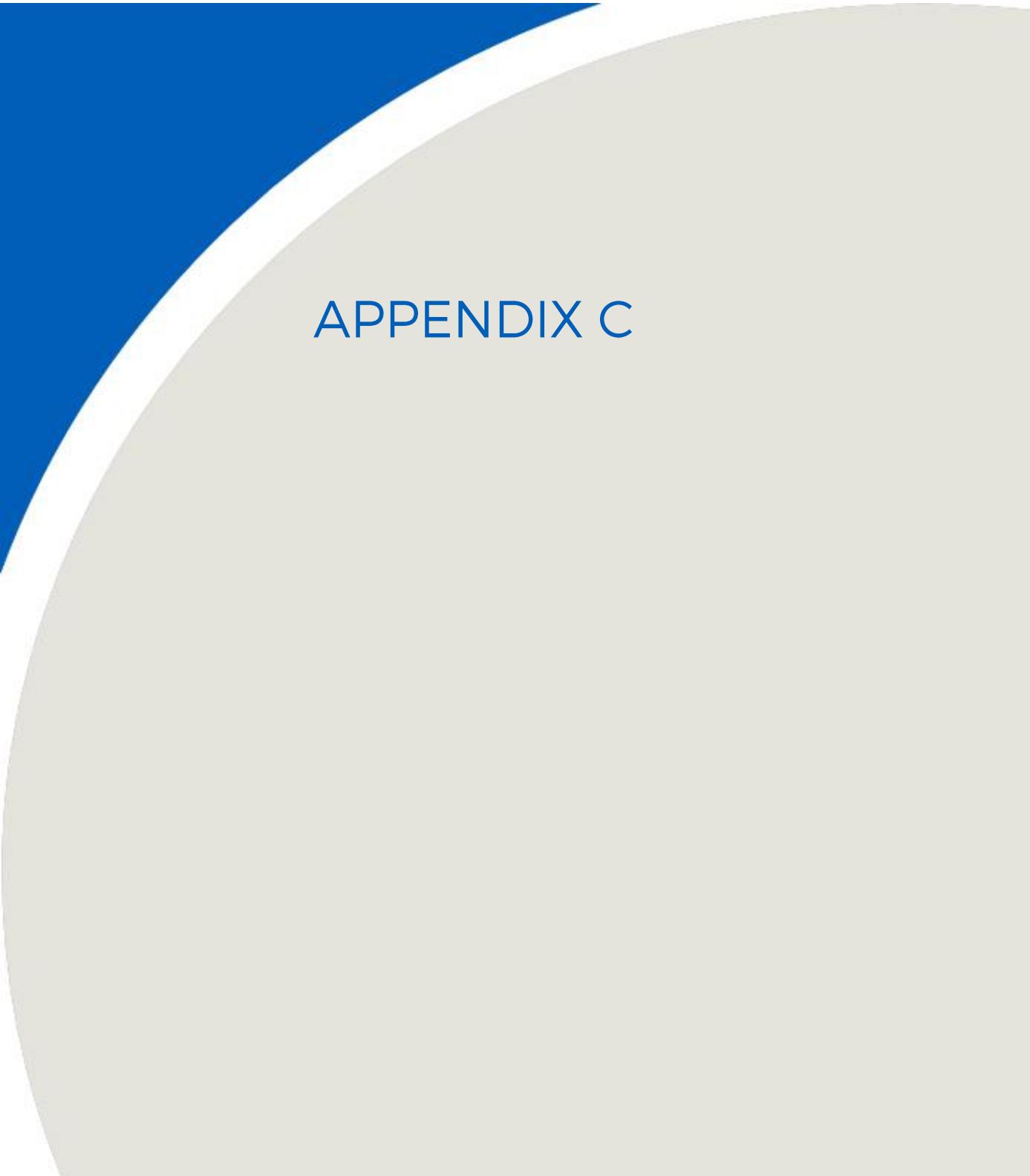
B - Long Branch Foundry

C - Filamat Composites Inc.

D - GE Booth Wastewater Treatment Facility

E - AJ Lanzarotta Wholesale Foods

F - Lake Ontario

A large, abstract graphic element occupies the left side of the page. It consists of a white curved shape on a light gray background, which is itself set against a solid blue rectangular area. The white curve starts from the bottom-left corner and sweeps upwards and to the right, ending near the top edge of the blue area.

APPENDIX C

CERTIFICATE OF CALIBRATION

for the

Nasal Ranger® Field Olfactometer

Serial Number : 90200559

Calibration Date : 3/20/2019

Dial D/T	Actual D/T	% Variance
60	60.02	0.0%
30	30.03	0.1%
15	15.07	0.5%
7	7.00	0.0%
4	4.00	0.0%
2	2.00	0.0%

This document certifies this Nasal Ranger® Field Olfactometer, specified by unique Serial Number, was calibrated using a NIST traceable primary gas flow standard by St. Croix Sensory, Inc.

St. Croix Sensory, Inc.
1150 Stillwater Blvd. N.
Stillwater, MN 55082 USA
+1-651-439-0177
info@nasalranger.com



Benjamin G. Sauer
Calibration Technician

CERTIFICATE OF CALIBRATION

for the
Nasal Ranger® Field Olfactometer

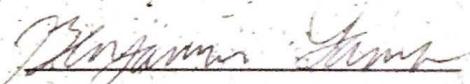
Serial Number : HighDial 0559 Calibration Date : 3/20/2019

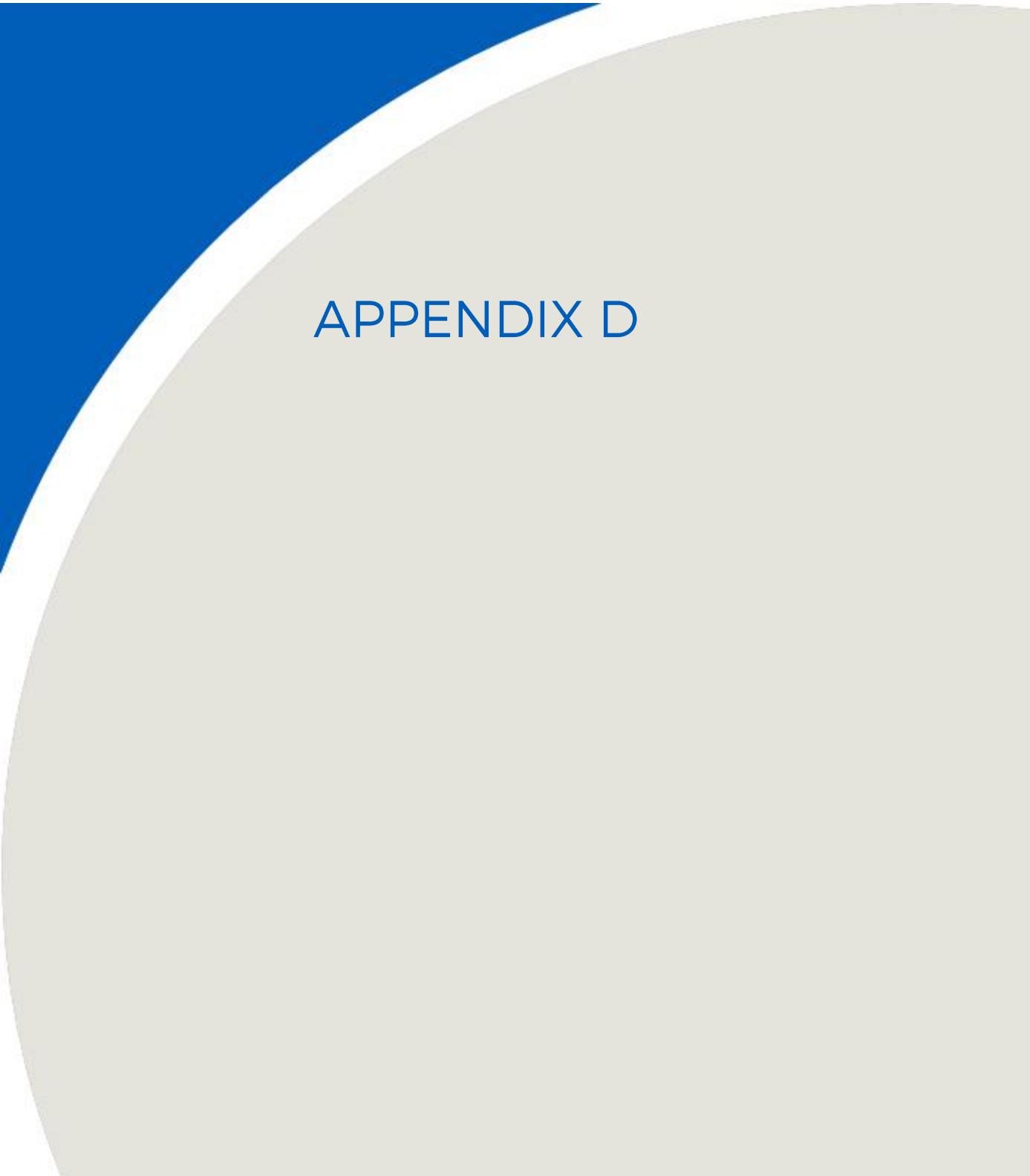
Dial D/T	Actual D/T	% Variance
500	499.00	-0.2%
400	399.00	-0.3%
300	294.08	-2.0%
200	199.00	-0.5%
100	100.12	0.1%
60	60.02	0.0%

This document certifies this Nasal Ranger® Field Olfactometer, specified by unique Serial Number, was calibrated using a NIST traceable primary gas flow standard by St. Croix Sensory, Inc.

St. Croix Sensory, Inc.
1150 Stillwater Blvd. N.
Stillwater, MN 55082 USA
+1-651-439-0177
info@nasalranger.com




Calibration Technician

A large, abstract graphic element occupies the left side of the page. It consists of a white curved band that sweeps from the top left towards the bottom right, set against a solid blue rectangular background. To the right of this graphic, the text is positioned on a light gray background.

APPENDIX D

Determination of Odour Thresholds by a Forced Choice Ascending Concentration Series Method of Limits

Creation Date: July 8, 2002

Revision Date: New

Appendix A

Results of Odour Threshold Testing

Dilution Factor per step: 2

Type of Threshold: Detection

Calibration Set 1 (CS1): Date and Time of Preparation: _____

Calibration Set 2 (CS2): Date and Time of Preparation: _____

Calibration Set 3 (CS3): Date and Time of Preparation: _____

Dilution factor (concentration ppm)	Panelist's Name		
	Test Set 1	Test Set 2	Test Set 3
Date: Time: Temp: Calibration Set:	Date: Time: Temp: Calibration Set:	Date: Time: Temp: Calibration Set:	Date: Time: Temp: Calibration Set:
Record + for correct selection and - for incorrect selection of panelist. Indicate a "G" if the answer was a guess. Recommended temperature is 21°C.			
3 200 000 (0.3 ppm)	- (+) (-)	- (-) (+)	(+) (+) (-)
1 600 000 (0.6 ppm)	- (+) (-)	- (+) (-)	(+) (+) (-)
800 000 (1.3 ppm)	- - (+)	- (-) (+)	- (-) (+)
400 000 (2.5 ppm)		(+) (+) (-)	- (-) (+)
200 000 (5.0 ppm)		- (-) (+)	- - (+)
100 000 (10.0 ppm)		- (+) -	- - (+)
50 000 (20.0 ppm)			
Best Estimate Threshold			
$\sqrt{0.3 \times 0.6} = 0.4$ $\sqrt{0.6 \times 1.3} = 0.9$ $\sqrt{1.3 \times 2.5} = 1.8$ $\sqrt{2.5 \times 5.0} = 3.5$ $\sqrt{5.0 \times 10} = 7.1$ $\sqrt{10 \times 20} = 14$	0.9	7.1	7.1

The accepted odour threshold value for 1-butanol in water is 2.5 ppm at 21°C.

The acceptable range for an assessor is from 1.3 to 5.0 ppm in water.

50