



MEMORANDUM

To: Jerome MacNeil; Donnie Burke; Geoff Verner; Ellen Gushue; Barbara Mattie
From: Peter Weaver
Date: December 5, 2012
Subject: Odour Monitoring Daily Report; December 4, 2012

| | |
|---------------------------|------------------------------|
| Weather Conditions | Overcast |
| Precipitation | None |
| Wind Direction | North/North West |
| Wind Speed | Moderate Winds (8 - 25 km/h) |
| Temperature | 3 °C - 4 °C |

Four and one half rounds of monitoring were conducted today with no quantifiable site-related odours detected.

Please find attached:

- Odour Monitoring Data Sheets for December 4, 2012
- Monitoring circuit map
- Monitoring circuit locations
- Odour descriptor wheel



ODOUR MONITORING DATA SHEET

DATE: December 4, 2012

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|---|
| 7:00 | 3 | | | | | | | | X | | |
| 7:10 | 6 | | | | | | | | X | | |
| 7:15 | 7 | | | | | | | | X | | |
| 7:20 | 8 | | | | | | | | X | | |
| 7:25 | 9 | | | | | | | X | | 515 | Not site related – other activity in the area |
| 7:30 | 10 | | | | | | X | | | 515 | Not site related – other activity in the area |
| 7:40 | 12 | | | | | | | | X | | |
| 7:47 | 17 | | | | | | | | X | | |
| 7:53 | 13 | | | | | | | | X | | |
| 7:58 | 14 | | | | | | | | X | | |
| 8:03 | 15 | | | | | | | | X | | |
| 8:08 | 16 | | | | | | | | X | | |
| 8:18 | 5 | | | | | | | | X | | |
| 8:27 | 1 | | | | | | | | X | | |
| 8:33 | 11 | | | | | | | | X | | |
| 8:38 | 2 | | | | | | | | X | | |
| 8:43 | 4 | | | | | | | | X | | |

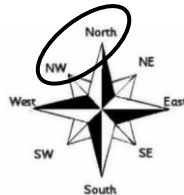
Weather Conditions

- Mostly Sunny
- Partly Cloudy
- Mostly Cloudy
- Overcast
- Hazy

Precipitation

- None
- Fog
- Rain
- Sleet
- Snow

Wind Direction (Blowing From)



Wind Speed

- Calm
- Light Breeze (1 – 8 km/h)
- Moderate Wind (8 – 25 km/h)
- Strong Winds (25 km/h or higher)

Temperature: ____3____ °C

Relative Humidity: ____94____ %

Barometric Pressure: ____102.29____ kpa

Notes:

Date Signed: December 4, 2012

Name: Denise Walker

Signature: Denise Walker



ODOUR MONITORING DATA SHEET

DATE: December 4, 2012

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|-------|----------|----|----|----|---|---|---|----|----|-------------|---|
| 9:20 | 3 | | | | | | | | X | | |
| 9:26 | 6 | | | | | | | | X | | |
| 9:31 | 7 | | | | | | | | X | | |
| 9:36 | 8 | | | | | | | | X | | |
| 9:41 | 9 | | | | | | | X | | 515 | Not site related – other activity in the area |
| 9:46 | 10 | | | | | | | | X | | |
| 10:08 | 12 | | | | | | | | X | | |
| 10:14 | 17 | | | | | | | | X | | |
| 10:20 | 13 | | | | | | | | X | | |
| 10:25 | 14 | | | | | | | | X | | |
| 10:30 | 15 | | | | | | | | X | | |
| 10:35 | 16 | | | | | | | | X | | |
| 10:45 | 5 | | | | | | | | X | | |
| 10:51 | 1 | | | | | | | | X | | |
| 10:57 | 11 | | | | | | | | X | | |
| 11:04 | 2 | | | | | | | | X | | |
| 11:10 | 4 | | | | | | | | X | | |

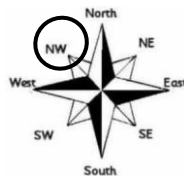
Weather Conditions

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- Hazy

Precipitation

- None
- Fog
- Rain
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- Snow

Wind Direction (Blowing From)



Wind Speed

- Calm
- Light Breeze (1 – 8 km/h)
- Moderate Wind (8 – 25 km/h)
- Strong Winds (25 km/h or higher)

Temperature: ____3____ °C

Relative Humidity: ____92____ %

Barometric Pressure: ____102.50____ kpa

Notes:

Date Signed: December 4, 2012

Name: Denise Walker

Signature: Denise Walker



ODOUR MONITORING DATA SHEET

DATE: December 4, 2012

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|-------|----------|----|----|----|---|---|---|----|----|-------------|---|
| 11:20 | 3 | | | | | | | | X | | |
| 11:26 | 6 | | | | | | | | X | | |
| 11:31 | 7 | | | | | | | | X | | |
| 11:36 | 8 | | | | | | | | X | | |
| 11:41 | 9 | | | | | | | X | | 515 | Not site related – other activity in the area |
| 11:46 | 10 | | | | | | | | X | | |
| 12:35 | 12 | | | | | | | | X | | |
| 12:42 | 17 | | | | | | | | X | | |
| 12:49 | 13 | | | | | | | | X | | |
| 12:54 | 14 | | | | | | | | X | | |
| 12:59 | 15 | | | | | | | | X | | |
| 1:05 | 16 | | | | | | | | X | | |
| 1:15 | 5 | | | | | | | | X | | |
| 1:21 | 1 | | | | | | | | X | | |
| 1:27 | 11 | | | | | | | | X | | |
| 1:32 | 2 | | | | | | | | X | | |
| 1:37 | 4 | | | | | | | | X | | |

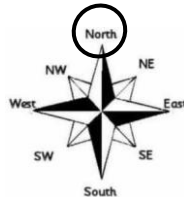
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Precipitation

- None
- Fog
- Rain
- Sleet
- Snow

Wind Direction (Blowing From)



Wind Speed

- Calm
- Light Breeze (1 – 8 km/h)
- Moderate Wind (8 – 25 km/h)
- Strong Winds (25 km/h or higher)

Temperature: ____3____ °C

Relative Humidity: ____90____ %

Barometric Pressure: ____102.62____ kpa

Notes:

Date Signed: December 4, 2012

Name: Denise Walker

Signature: Denise Walker



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| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|---|
| 2:00 | 3 | | | | | | | | X | | |
| 2:13 | 6 | | | | | | | | X | | |
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| 2:59 | 17 | | | | | | | | X | | |
| 3:05 | 13 | | | | | | | | X | | |
| 3:10 | 14 | | | | | | | | X | | |
| 3:15 | 15 | | | | | | | | X | | |
| 3:20 | 16 | | | | | | | | X | | |
| 3:45 | 5 | | | | | | | | X | | |
| 3:51 | 1 | | | | | | | | X | | |
| 3:58 | 11 | | | | | | | | X | | |
| 4:03 | 2 | | | | | | | | X | | |
| 4:08 | 4 | | | | | | | | X | | |

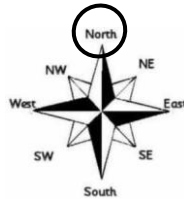
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Precipitation

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- Snow

Wind Direction (Blowing From)



Wind Speed

- Calm
- Light Breeze (1 – 8 km/h)
- Moderate Wind (8 – 25 km/h)
- Strong Winds (25 km/h or higher)

Temperature: ____4____ °C

Relative Humidity: ____86____ %

Barometric Pressure: ____102.49____ kpa

Notes:

Date Signed: December 4, 2012

Name: Denise Walker

Signature: Denise Walker



ODOUR MONITORING DATA SHEET

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|------|----------|----|----|----|---|---|---|----|----|-------------|----------|
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| 4:36 | 8 | | | | | | | | X | | |
| 4:41 | 9 | | | | | | | | X | | |
| 4:46 | 10 | | | | | | | | X | | |
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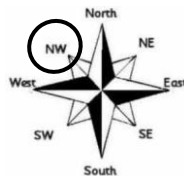
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Precipitation

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Wind Direction (Blowing From)



Wind Speed

- Calm
- Light Breeze (1 – 8 km/h)
- Moderate Wind (8 – 25 km/h)
- Strong Winds (25 km/h or higher)

Temperature: 3 °C

Relative Humidity: 87 %

Barometric Pressure: 102.45 kpa

Notes:

Date Signed: December 4, 2012

Name: Denise Walker

Signature: Denise Walker

Table 1 - Odour Monitoring Circuit
Air Monitoring Plan - Odour (AMPO)

| Location No. | Description | Latitude (Degrees (°) Minutes (') Seconds (")) | Longitude (Degrees (°) Minutes (') Seconds (")) |
|---------------------|---|---|--|
| 01 | Forrest St. | N46° 8' 48.18" | W60° 10' 4.50" |
| 02 | FAST Furniture | N46° 8' 30.76" | W60° 10' 37.56" |
| 03 | Bus Station – Terminal Road | N46° 8' 28.30" | W60° 11' 7.55" |
| 04 | French School | N46° 8' 28.36" | W60° 10' 58.23" |
| 05 | Near Coke Oven Security Trailer | N46° 8' 55.56" | W60° 10' 7.74" |
| 06 | Fence Line – Prince and Terminal | N46° 8' 21.97" | W60° 11' 17.20" |
| 07 | Intercolonial Ambient Air Station (L5) | N46° 8' 33.36" | W60° 11' 24.30" |
| 08 | Corner of Intercolonial and Ferry Streets | N46° 8' 39.45" | W60° 11' 31.14" |
| 09 | DesBarres Street Ambient Air Station (L6) | N46° 8' 49.72" | W60° 11' 49.66" |
| 10 | Battery Point next to Fire Hydrant | N46° 8' 58.81" | W60° 12' 7.61" |
| 11 | Victoria Road Ambient Air Station (L1) | N46° 8' 42.97" | W60° 10' 32.62" |
| 12 | NS Lands Office Cul-de-sac | N46° 8' 51.94" | W60° 10' 56.32" |
| 13 | Currys Lane Ambient Air Station (L2) | N46° 9' 5.86" | W60° 10' 43.18" |
| 14 | Playground on Laurier Street Extension | N46° 9' 8.30" | W60° 10' 55.86" |
| 15 | 200 m past Laurier Street Extension | N46° 9' 10.05" | W60° 11' 6.63" |
| 16 | Bottom of Henry Street | N46° 9' 16.30" | W60° 11' 17.60" |
| 17 | Fredrick St. | N46° 9' 10.26" | W60° 10' 12.12" |

Odor Descriptors

