



## MEMORANDUM

**To:** Jerome MacNeil; Donnie Burke; Geoff Verner; Ellen Gushue; Peter Weaver; Barbara Mattie

**From:** Dawn MacNeil

**Date:** December 15, 2011

**Subject:** Odour Monitoring Daily Report; December 14, 2011

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|                           |                              |
|---------------------------|------------------------------|
| <b>Weather Conditions</b> | Partly Cloudy                |
| <b>Precipitation</b>      | None                         |
| <b>Wind Direction</b>     | North/North East             |
| <b>Wind Speed</b>         | Moderate Winds (8 - 25 km/h) |
| <b>Temperature</b>        | 0 °C - -2 °C                 |

Three 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 14, 2011
- Monitoring circuit map
- Monitoring circuit locations
- Odour descriptor wheel



ODOUR MONITORING DATA SHEET

DATE: December 14, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|----------|
| 6:45 | 1        |    |    |    |   |   |   |    | X  |             |          |
| 6:53 | 2        |    |    |    |   |   |   |    | X  |             |          |
| 7:03 | 3        |    |    |    |   |   |   |    | X  |             |          |
| 7:12 | 4        |    |    |    |   |   |   |    | X  |             |          |
| 7:28 | 5        |    |    |    |   |   |   |    | X  |             |          |
| 7:41 | 6        |    |    |    |   |   |   |    | X  |             |          |
| 7:49 | 7        |    |    |    |   |   |   |    | X  |             |          |
| 7:57 | 8        |    |    |    |   |   |   |    | X  |             |          |
| 8:06 | 9        |    |    |    |   |   |   |    | X  |             |          |
| 8:16 | 10       |    |    |    |   |   |   |    | X  |             |          |
| 8:33 | 11       |    |    |    |   |   |   |    | X  |             |          |
| 8:44 | 12       |    |    |    |   |   |   |    | X  |             |          |
| 8:51 | 13       |    |    |    |   |   |   |    | X  |             |          |
| 8:59 | 14       |    |    |    |   |   |   |    | X  |             |          |
| 9:08 | 15       |    |    |    |   |   |   |    | X  |             |          |
| 9:16 | 16       |    |    |    |   |   |   |    | X  |             |          |
| 9:26 | 17       |    |    |    |   |   |   |    | X  |             |          |

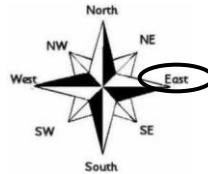
Weather Conditions

- 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: \_\_\_\_0\_\_ °C Relative Humidity: \_\_\_\_86\_\_ %

Barometric Pressure: \_\_\_\_102.38\_\_ kPa

Notes:

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Date Signed: December 14, 2011

Name: Gloria Paul

Signature:



ODOUR MONITORING DATA SHEET

DATE: December 14, 2011

| TIME  | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|-------|----------|----|----|----|---|---|---|----|----|-------------|----------|
| 9:37  | 1        |    |    |    |   |   |   |    | X  |             |          |
| 9:45  | 2        |    |    |    |   |   |   |    | X  |             |          |
| 9:54  | 3        |    |    |    |   |   |   |    | X  |             |          |
| 10:04 | 4        |    |    |    |   |   |   |    | X  |             |          |
| 10:19 | 5        |    |    |    |   |   |   |    | X  |             |          |
| 10:33 | 6        |    |    |    |   |   |   |    | X  |             |          |
| 10:42 | 7        |    |    |    |   |   |   |    | X  |             |          |
| 10:50 | 8        |    |    |    |   |   |   |    | X  |             |          |
| 10:59 | 9        |    |    |    |   |   |   |    | X  |             |          |
| 11:07 | 10       |    |    |    |   |   |   |    | X  |             |          |
| 11:27 | 11       |    |    |    |   |   |   |    | X  |             |          |
| 11:39 | 12       |    |    |    |   |   |   |    | X  |             |          |
| 11:47 | 13       |    |    |    |   |   |   |    | X  |             |          |
| 11:55 | 14       |    |    |    |   |   |   |    | X  |             |          |
| 1:00  | 15       |    |    |    |   |   |   |    | X  |             |          |
| 1:08  | 16       |    |    |    |   |   |   |    | X  |             |          |
| 1:20  | 17       |    |    |    |   |   |   |    | X  |             |          |

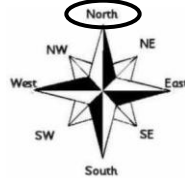
Weather Conditions

- 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: \_\_\_\_0\_\_ °C Relative Humidity: \_\_\_\_74\_\_\_\_ %

Barometric Pressure: \_\_\_\_102.58\_\_\_\_ kPa

Notes:

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Date Signed: December 14, 2011

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Signature:



ODOUR MONITORING DATA SHEET

DATE: December 14, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|----------|
| 1:32 | 1        |    |    |    |   |   |   |    | X  |             |          |
| 1:40 | 2        |    |    |    |   |   |   |    | X  |             |          |
| 1:49 | 3        |    |    |    |   |   |   |    | X  |             |          |
| 1:57 | 4        |    |    |    |   |   |   |    | X  |             |          |
| 2:10 | 5        |    |    |    |   |   |   |    | X  |             |          |
| 2:24 | 6        |    |    |    |   |   |   |    | X  |             |          |
| 2:38 | 7        |    |    |    |   |   |   |    | X  |             |          |
| 2:46 | 8        |    |    |    |   |   |   |    | X  |             |          |
| 2:55 | 9        |    |    |    |   |   |   |    | X  |             |          |
| 3:05 | 10       |    |    |    |   |   |   | X  |    | 514         | WWTP     |
| 3:20 | 11       |    |    |    |   |   |   |    | X  |             |          |
| 3:30 | 12       |    |    |    |   |   |   |    | X  |             |          |
| 3:40 | 13       |    |    |    |   |   |   |    | X  |             |          |
| 3:49 | 14       |    |    |    |   |   |   |    | X  |             |          |
| 3:57 | 15       |    |    |    |   |   |   |    | X  |             |          |
| 4:05 | 16       |    |    |    |   |   |   |    | X  |             |          |
| 4:15 | 17       |    |    |    |   |   |   |    | X  |             |          |

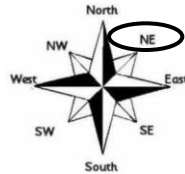
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- Overcast
- Hazy

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: \_\_\_-1\_\_\_ °C    Relative Humidity: \_\_\_\_\_ 64 \_\_\_\_\_ %

Barometric Pressure: \_\_\_102.61\_\_\_ kPa

Notes:

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DATE: December 14, 2011

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|------|----------|----|----|----|---|---|---|----|----|-------------|----------|
| 4:27 | 1        |    |    |    |   |   |   |    | X  |             |          |
| 4:35 | 2        |    |    |    |   |   |   |    | X  |             |          |
| 4:43 | 3        |    |    |    |   |   |   |    | X  |             |          |
| 4:52 | 4        |    |    |    |   |   |   |    | X  |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |
|      |          |    |    |    |   |   |   |    |    |             |          |

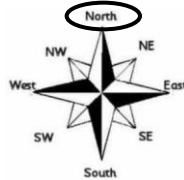
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- None
- Fog
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- Sleet
- Snow

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: \_\_\_-2\_\_\_ °C

Relative Humidity: \_\_\_59\_\_\_ %

Barometric Pressure: \_\_\_102.66\_\_\_ kPa

Notes:

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Figure 1

Community Odour Monitoring Circuit  
 Sydney Tar Ponds and Coke Ovens Cleanup  
*Sydney, Nova Scotia*



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

| <b>Location No.</b> | <b>Description</b>                        | <b>Latitude<br/>(Degrees (°)<br/>Minutes (')<br/>Seconds (")</b> | <b>Longitude<br/>(Degrees (°)<br/>Minutes (')<br/>Seconds (")</b> |
|---------------------|---|--|---|
| 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

