



MEMORANDUM

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

From: Dawn MacNeil

Date: October 5, 2011

Subject: Odour Monitoring Daily Report; October 4, 2011

| | |
|---------------------------|----------------------------|
| Weather Conditions | Partly Cloudy |
| Precipitation | None |
| Wind Direction | North/North West |
| Wind Speed | Moderate winds 8 – 25 km/h |
| Temperature | 9 °C - 15 °C |

Three and one half rounds of monitoring were conducted today with no quantifiable site-related greater than 4 DT detected.

On site supervisor was notified and odour mitigation efforts were applied to site. The location where the 4DT was detected was re-sampled and odour levels decreased within 20 minutes.

Please find attached:

- Odour Monitoring Data Sheets for October 4, 2011
- Monitoring circuit map
- Monitoring circuit locations
- Odour descriptor wheel



ODOUR MONITORING DATA SHEET

DATE: October 4, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|----------|
| 6:35 | 1 | | | | | | | | X | | |
| 6:44 | 2 | | | | | | | | X | | |
| 6:52 | 3 | | | | | | | | X | | |
| 7:00 | 4 | | | | | | | | X | | |
| 7:08 | 5 | | | | | | | | X | | |
| 7:16 | 6 | | | | | | | | X | | |
| 7:24 | 7 | | | | | | | | X | | |
| 7:32 | 8 | | | | | | | | X | | |
| 7:40 | 9 | | | | | | | | X | | |
| 7:49 | 10 | | | | | | | | X | | |
| 8:04 | 11 | | | | | | | | X | | |
| 8:15 | 12 | | | | | | | | X | | |
| 8:23 | 13 | | | | | | | | X | | |
| 8:32 | 14 | | | | | | | | X | | |
| 8:39 | 15 | | | | | | | | X | | |
| 8:47 | 16 | | | | | | | | X | | |
| 8:59 | 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: ____9__ °C Relative Humidity: ____93__ %

Barometric Pressure: ____102.00__ kPa

Notes:

Date Signed: October 4, 2011

Name: Gloria Paul

Signature:



ODOUR MONITORING DATA SHEET

DATE: October 4, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|-------|----------|----|----|----|---|---|---|----|----|-------------|---------------------------------|
| 9:16 | 1 | | | | | | | | X | | |
| 9:25 | 2 | | | | | | | | X | | |
| 9:33 | 3 | | | | | | | | X | | |
| 9:40 | 4 | | | | | | | | X | | |
| 9:49 | 5 | | | | | | | | X | | |
| 9:57 | 6 | | | | | | | | X | | |
| 10:04 | 7 | | | | | | | X | | 715 | Slight site odour |
| 10:12 | 8 | | | | | | | X | | 715 | Slight site odour |
| 10:21 | 9 | | | | | | | | X | | |
| 10:29 | 10 | | | | | | | X | | 707 | Not site related (oil refinery) |
| 10:45 | 11 | | | | | | | | X | | |
| 10:56 | 12 | | | | | | | | X | | |
| 11:04 | 13 | | | | | | | | X | | |
| 11:14 | 14 | | | | | | | | X | | |
| 11:22 | 15 | | | | | | | | X | | |
| 11:30 | 16 | | | | | | | | X | | |
| 11:43 | 17 | | | | | | | | X | | |

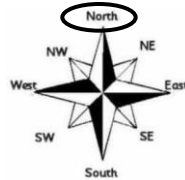
Weather Conditions

- 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: 12 °C Relative Humidity: 82 % Barometric Pressure: 102.08 kPa

Notes: _____

Date Signed: October 4, 2011

Name: Gloria Paul

Signature:



ODOUR MONITORING DATA SHEET

DATE: October 4, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|-------------------|
| 1:00 | 1 | | | | | | | | X | | |
| 1:16 | 2 | | | | | | | | X | | |
| 1:25 | 3 | | | | | | | | X | | |
| 1:35 | 4 | | | | | | | | X | | |
| 1:43 | 5 | | | | | | | | X | | |
| 1:51 | 6 | | | | | | | | X | | |
| 1:59 | 7 | | | | | | | X | | 400,715 | Slight site odour |
| 2:07 | 8 | | | | | | | X | | 400,715 | Slight site odour |
| 2:18 | 9 | | | | | | | | X | | |
| 2:26 | 10 | | | | | | | X | | 514 | WWTP |
| 2:46 | 11 | | | | | | | | X | | |
| 2:57 | 12 | | | | | | | | X | | |
| 3:06 | 13 | | | | | | | | X | | |
| 3:16 | 14 | | | | | | | | X | | |
| 3:23 | 15 | | | | | | | | X | | |
| 3:32 | 16 | | | | | | | | X | | |
| 3:42 | 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: 14 °C Relative Humidity: 72 %

Barometric Pressure: 101.96 kPa

Notes:

Date Signed: October 4, 2011

Name: Gloria Paul

Signature:



ODOUR MONITORING DATA SHEET

DATE: October 4, 2011

| TIME | LOCATION | 60 | 30 | 15 | 7 | 4 | 2 | <2 | ND | DESCRIPTORS | COMMENTS |
|------|----------|----|----|----|---|---|---|----|----|-------------|-------------------|
| 3:58 | 1 | | | | | | | | X | | |
| 4:07 | 2 | | | | | | | | X | | |
| 4:15 | 3 | | | | | | | | X | | |
| 4:23 | 4 | | | | | | | | X | | |
| 4:32 | 5 | | | | | | | | X | | |
| 4:41 | 6 | | | | | | | | X | | |
| 4:48 | 7 | | | | | | | | X | | |
| 4:56 | 8 | | | | | X | | | | | Site odour |
| 5:20 | 8 | | | | | | X | | | | Slight site odour |
| 5:35 | 8 | | | | | | X | | | | Slight site odour |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

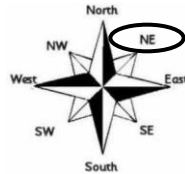
Weather Conditions

- 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: 15 °C Relative Humidity: 63 %

Barometric Pressure: 101.86 kPa

Notes: _____

Date Signed: October 4, 2011

Name: Gloria Paul

Signature: *Gloria Paul*

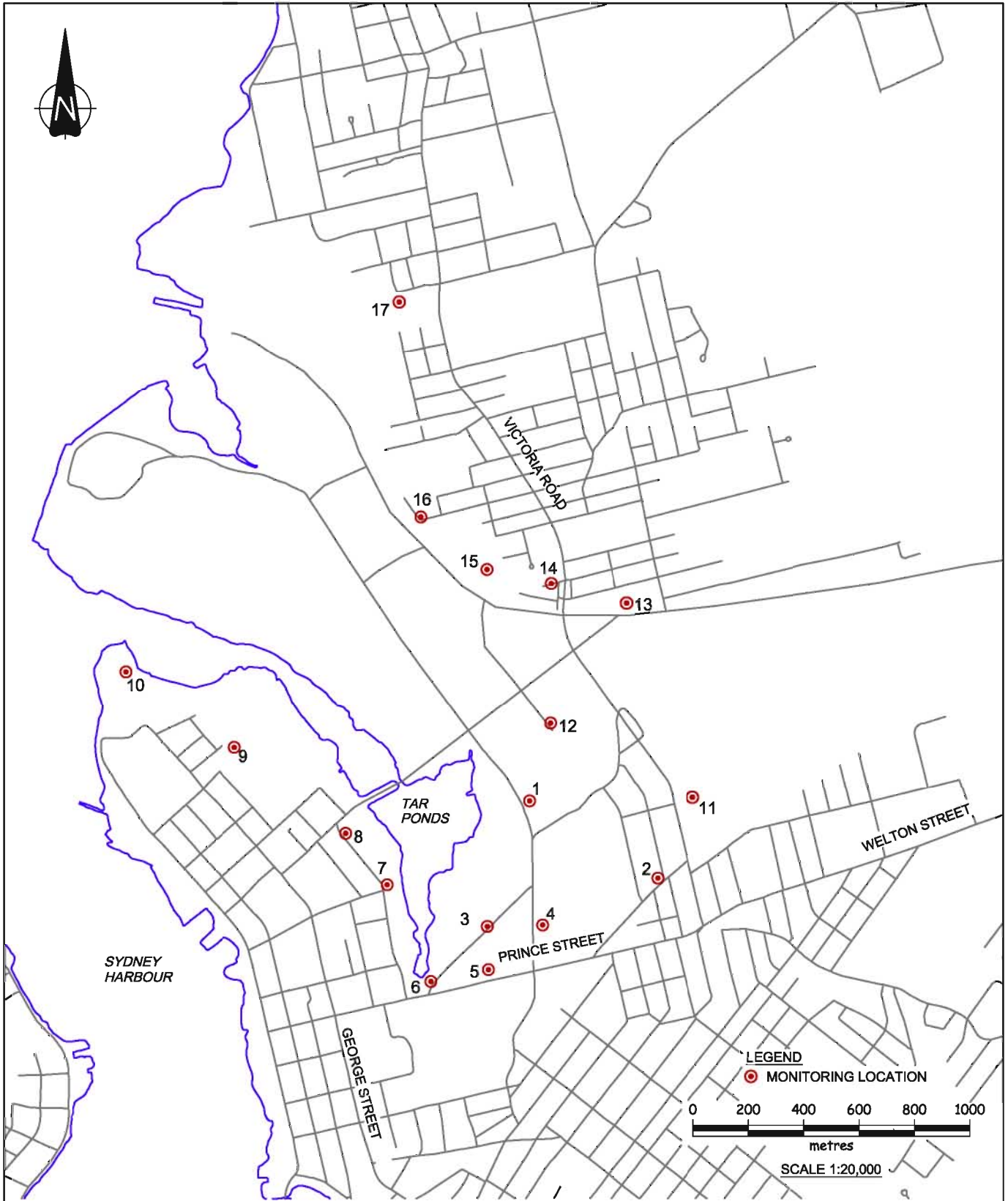


Figure 1

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



| Location No. | Description | Latitude (Degrees (°) Minutes (') Seconds (")) | Longitude (Degrees (°) Minutes (') Seconds (")) |
|---------------------|---|---|--|
| 01 | STPA Parking Lot | N46° 8' 42.89" | W60° 11' 0.08" |
| 02 | FAST Furniture | N46° 8' 33.76" | 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 | Boston Pizza | N46° 8' 23.25" | W60° 11' 7.48" |
| 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 | Harbourside Elementary School | N46° 9' 41.50" | W60° 11' 20.68" |

Odor Descriptors

