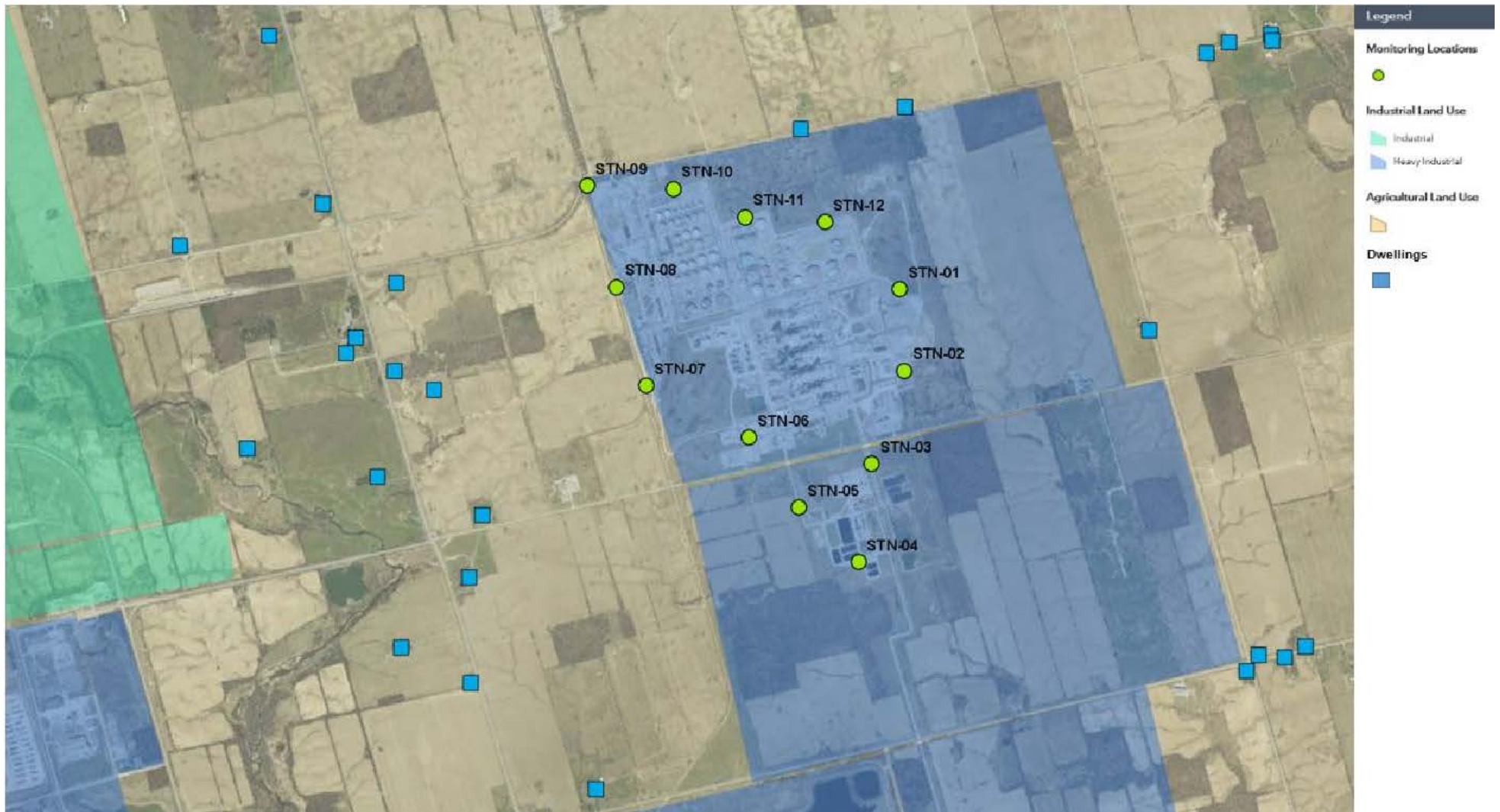


## **Section 6 – Annual Ambient Monitoring Report for Petroleum Refining- Industry Standard**

Subsection 65(6) requires an annual report of the fence line benzene air monitoring program with the following information:

- i. The following map shows the location of each monitoring station required by subsection 60(1), the information required by clause 60(4)(d), and other topographical information including any nearby water bodies, roadways and adjacent land uses.

Monitoring Locations map:



ii. A. Please see the table below with the benzene sampling results for the 2018 calendar year.

Station ID		1-FLARE	2-SPHERE	3-WWTP	4-WWTP	5-WWTP	6-FIREHALL	7-RAIL	8-RAIL	9-TERMINAL	10-TANKS	11-TANKS	12-TANKS
Location (Lat, Long)													
Date of Deployment/ Date of Retrieval/ Results (ug/m3)													
28 Dec '17	11 Jan '18	2.6	2.2	2.9	1.2	1.4	1.4	1.3	1.7	1.4	1.8	2.4	2.0
11 Jan '18	25 Jan '18	2.2	1.5	3.5	2.8	2.2	1.5	1.6	1.4	1.0	1.9	2.5	2.9
25 Jan '18	08 Feb '18	2.8	2.1	3.8	2.1	2.4	2.8	2.5	1.5	1.1	2.2	2.5	2.7
08 Feb '18	22 Feb '18	1.2	1.5	2.2	1.8	1.3	1.4	2.4	1.3	0.8	2.2	2.1	2.6
22 Feb '18	08 Mar '18	1.0	0.9	1.5	3.1	1.2	1.3	1.6	1.8	0.7	1.7	1.7	2.5
08 Mar '18	22 Mar '18	1.4	1.5	1.0	1.5	0.9	1.2	2.1	1.3	0.6	0.6	1.4	1.1
22 Mar '18	05 Apr '18	1.0	1.1	1.6	2.4	1.4	1.4	2.2	1.3	0.7	1.1	1.3	1.2
05 Apr '18	19 Apr '18	1.2	1.0	1.2	1.1	0.9	0.9	3.1	1.6	0.6	1.5	1.6	1.5
19 Apr '18	03 May '18	1.1	1.0	2.0	1.2	1.4	1.2	1.5	1.4	0.5	1.8	1.8	1.9
03 May '18	17 May '18	0.7	0.7	1.9	1.8	1.1	1.0	2.3	1.7	0.7	2.3	2.1	2.7
17 May '18	31 May '18	0.7	0.8	1.9	0.9	1.0	0.8	1.9	1.7	0.7	3.3	2.6	2.9
31 May '18	14 Jun '18	0.8	0.7	1.6	1.0	0.8	0.7	1.7	1.6	0.4	2.2	1.7	2.0
14 Jun '18	28 Jun '18	0.8	0.7	1.3	2.1	1.4	1.2	2.7	2.3	0.6	2.0	1.8	1.6
28 Jun '18	12 Jul '18	0.8	0.9	2.0	2.8	1.3	1.4	1.4	1.2	0.5	3.0	2.8	2.8
12 Jul '18	26 Jul '18	2.3	0.7	1.0	3.1	1.9	1.9	1.4	1.0	1.8	1.0	3.5	2.6
26 Jul '18	09 Aug '18	3.0	1.2	1.2	2.4	0.6	1.1	1.1	1.4	1.6	0.6	2.9	4.0
09 Aug '18	23 Aug '18	1.9	1.0	1.0	1.4	1.4	0.8	1.2	3.1	2.0	0.6	1.6	2.3
23 Aug '18	06 Sep '18	1.4	1.2	6.0	2.2	1.2	1.3	1.5	1.4	0.7	2.9	3.6	3.2
06 Sep '18	20 Sep '18	0.5	0.5	3.2	4.9	1.8	3.0	4.0	3.2	0.6	1.2	0.9	0.6
20 Sep '18	04 Oct '18	0.7	0.7	2.0	1.5	1.4	1.3	2.6	2.2	0.8	1.1	2.4	1.3
04 Oct '18	18 Oct '18	1.6	1.1	2.3	1.5	0.9	1.1	2.0	1.4	0.6	1.6	1.9	1.6
18 Oct '18	01 Nov '18	1.2	0.9	1.9	1.3	1.3	1.3	2.3	1.2	0.5	1.1	1.5	1.3
01 Nov '18	15 Nov '18	1.1	0.74	1.1	0.97	1.1	1.1	1.6	1.4	0.52	0.78	1.3	0.9
15 Nov '18	29 Nov '18	2.2	0.91	1.2	1.1	0.86	0.9	1.6	1.5	0.64	1.3	1.5	1.2
29 Nov '18	13 Dec '18	1.5	0.94	1.2	Note 1	1.2	1.3	1.7	1.2	0.81	0.99	1.6	1.4
13 Dec '18	27 Dec '18	1.3	1.1	1.6	1.3	1.2	1.2	1.9	2.3	0.96	1.5	1.7	1.7
27 Dec '18	10 Jan '18	2.2	1.3	1.5	1.4	1.3	1.2	1.9	1.5	0.95	1.4	2.1	1.9

Note 1: Technician error in tube deployment. No sample taken.

B. As per Section 60(1) of the standard, a 3-year baseline has not yet been established, therefore there are no statistically significant increases in benzene concentrations to report.

C. Please see the table below for a summary showing the annual average benzene concentration results from the time that the monitor was first required by subsection 60(1).

<b>Year/Results (ug/m3)</b>	<b>1-FLARE</b>	<b>2-SPHERE</b>	<b>3-WWTP</b>	<b>4-WWTP</b>	<b>5-WWTP</b>	<b>6-FIREHALL</b>	<b>7-RAIL</b>	<b>8-RAIL</b>	<b>9-TERMINAL</b>	<b>10-TANKS</b>	<b>11-TANKS</b>	<b>12-TANKS</b>
2018	1.5	1.1	2.0	1.9	1.3	1.3	2.0	1.7	0.8	1.6	2.0	2.0

iii. As per Section 60(1) of the standard, a 3-year baseline has not yet been established, therefore there are no statistically significant increases in benzene concentrations to report.