

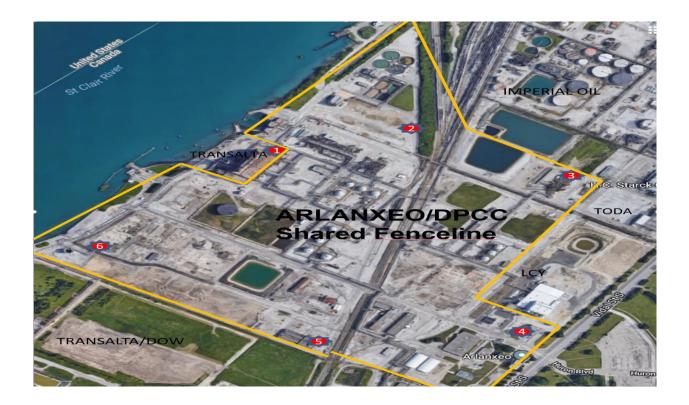
### Annual Ambient Monitoring Report Petrochemicals Industry Standard,

# 2023 Reporting Year

# DPCC Average 1,3 Butadiene Concentrations:

| Monitor # | Location               | 2020 | 2021 | 2022 | 2023 |
|-----------|------------------------|------|------|------|------|
| 1         | E 0383543<br>N 4755905 | 0.60 | 0.47 | 1.12 | 0.73 |
| 2         | E 0383543<br>N 4755905 | 2.19 | 0.97 | 1.00 | 1.08 |
| 3         | E 0384093<br>N 4755833 | 1.07 | 0.60 | 1.24 | 1.41 |
| 4         | E 0383953<br>N 4755328 | 0.63 | 0.37 | 1.19 | 0.82 |
| 5         | E 0383589<br>N 4755252 | 0.94 | 0.35 | 0.40 | 0.40 |
| 6         | E 0383213<br>N 4755589 | 0.20 | 0.17 | 0.22 | 0.36 |

### DPCC Monitor Location Map:





# 2023 1,3 Butadiene Monitoring Results

|  | nd Petrochemicals  |  |   |  |  |   |  |   |
|--|--|--|---|--|--|---|--|---|
| Monitor Location #1  |  | E 0383543<br>N 4755905   | Monitor Loc   | ation #2   | E 0383781<br>N 4756013   | Monitor Loca  | E 0384093<br>N 4755833   |   |
| Sample Start Date  | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )  | Sample Start Date   | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )  | Sample Start Date   | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )   |
| December 21,2022   | January 4, 2023  | <0.33  | December 21,2022  | January 4, 2023  | <0.33  | December 21,2022  | January 4, 2023  | <0.33   |
| January 4, 2023  | January 18, 2023   | <0.33  | January 4, 2023   | January 18, 2023   | 0.698  | January 4, 2023   | January 18, 2023   | <0.33   |
| January 18, 2023   | February 1, 2023   | <0.34  | January 18, 2023  | February 1, 2023   | 0.768  | January 18, 2023  | February 1, 2023   | 0.359   |
| February 1, 2023   | February 15, 2023  | <0.34  | February 1, 2023  | February 15, 2023  | 0.895  | February 1, 2023  | February 15, 2023  | 0.535   |
| February 15, 2023  | March 1, 2023  | 0.673  | February 15, 2023   | March 1, 2023  | 0.750  | February 15, 2023   | March 1, 2023  | 0.337   |
| March 1, 2023  |  | <0.34  |   | March 15, 2023   | <0.34  |   | March 15, 2023   | 0.403   |
|  | March 15, 2023   |  | March 1, 2023   | March 29, 2023   |  | March 1, 2023   |  |   |
| March 15, 2023   | March 29, 2023   | <0.34  | March 15, 2023  | · · ·  | 0.472  | March 15, 2023  | March 29, 2023   | 0.581   |
| March 29, 2023   | April 12, 2023   | 0.637  | March 29, 2023  | April 12, 2023   | 1.85   | March 29, 2023  | April 12, 2023   | 1.40  |
| April 12, 2023   | April 26, 2023   | 0.783  | April 12, 2023  | April 26, 2023   | 1.36   | April 12, 2023  | April 26, 2023   | 5.92  |
| April 26, 2023   | May 10, 2023   | 2.38   | April 26, 2023  | May 10, 2023   | 4.87   | April 26, 2023  | May 10, 2023   | 6.01  |
| May 10, 2023   | May 24, 2023   | 0.565  | May 10, 2023  | May 24, 2023   | 1.18   | May 10, 2023  | May 24, 2023   | 3.69  |
| May 24, 2023   | June 7, 2023   | 0.609  | May 24, 2023  | June 7, 2023   | 1.17   | May 24, 2023  | June 7, 2023   | 4.78  |
| lune 7, 2023   | June 21, 2023  | 1.15   | June 7, 2023  | June 21, 2023  | 0.781  | June 7, 2023  | June 21, 2023  | 2.59  |
| June 21, 2023  | July 5, 2023   | 0.509  | June 21, 2023   | July 5, 2023   | 1.05   | June 21, 2023   | July 5, 2023   | 0.88  |
| July 5, 2023   | July 19, 2023  | 2.31   | July 5, 2023  | July 19, 2023  | 1.70   | July 5, 2023  | July 19, 2023  | 1.49  |
| July 19, 2023  | August 2, 2023   | 0.942  | July 19, 2023   | August 2, 2023   | 1.59   | July 19, 2023   | August 2, 2023   | 0.606   |
| August 2, 2023   | August 16, 2023  | <0.33  | August 2, 2023  | August 16, 2023  | <0.33  | August 2, 2023  | August 16, 2023  | 0.744   |
| August 2, 2023<br>August 16, 2023  | August 30, 2023  | 1.13   | August 16, 2023   | August 10, 2023  | 1.26   | August 16, 2023   | August 30, 2023  | 0.744   |
| August 30, 2023  | September 13, 2023   | <0.33  |   | September 13, 2023   | <0.33  | August 30, 2023   |  | <0.33   |
|  |  |  | August 30, 2023   |  |  |   | September 13, 2023   |   |
| September 13, 2023   | September 27, 2023   | 2.87   | September 13, 2023  | September 27, 2023   | 1.57   | September 13, 2023  | September 27, 2023   | 0.708   |
| September 27, 2023   | October 11, 2023   | 0.357  | September 27, 2023  | October 11, 2023   | 0.548  | September 27, 2023  | October 11, 2023   | 0.639   |
| October 11, 2023   | October 25, 2023   | 0.918  | October 11, 2023  | October 25, 2023   | 1.07   | October 11, 2023  | October 25, 2023   | <0.33   |
| October 25, 2023   | November 8, 2023   | 0.367  | October 25, 2023  | November 8, 2023   | 0.718  | October 25, 2023  | November 8, 2023   | 0.342   |
| November 8, 2023   | November 22, 2023  | 1.06   | November 8, 2023  | November 22, 2023  | 1.76   | November 8, 2023  | November 22, 2023  | 1.41  |
| November 22, 2023  | December 6, 2023   | <0.34  | November 22, 2023   | December 6, 2023   | 0.762  | November 22, 2023   | December 6, 2023   | 0.372   |
| December 6, 2023   | December 20, 2023  | <0.34  | December 6, 2023  | December 20, 2023  | 0.489  | December 6, 2023  | December 20, 2023  | 0.717   |
| Average  |  | 0.73   | Average   |  | 1.08   | Average   |  | 1.41  |
| Monitor Location #4  |  | E 0383953<br>N 4755328   | Monitor Location #5   |  | E 0383589<br>N 4755252   | Monitor Location #6   |  | E 0383213<br>N 4755589  |
| Sample Start Date  | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )  | Sample Start Date   | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )  | Sample Start Date   | Sample End Date  | 1,3-Butadiene<br>(ug/m <sup>3</sup> )   |
| December 21,2022   | January 4, 2023  | <0.33  | December 21,2022  | January 4, 2023  | <0.33  | December 21,2022  | January 4, 2023  | <0.33   |
| January 4, 2023  | January 18, 2023   | <0.33  | January 4, 2023   | January 18, 2023   | <0.33  | January 4, 2023   | January 18, 2023   | <0.33   |
| January 18, 2023   | February 1, 2023   | <0.34  | January 18, 2023  | February 1, 2023   | <0.34  | January 18, 2023  | February 1, 2023   | <0.33   |
|  |  |  |   |  |  |   |  |   |
| February 1, 2023   | February 15, 2023  | <0.34  | February 1, 2023  | February 15, 2023  | <0.34  | February 1, 2023  | February 15, 2023  | <0.34   |
|  | March 1, 2023  | <0.34  | February 15, 2023   | March 1, 2023  | <0.34  | February 15, 2023   | March 1, 2023  | <0.34   |
| February 15, 2023  | March 15, 2023   | 0.967  | March 1, 2023   | March 15, 2023   | 0.398  | March 1, 2023   | March 15, 2023   | <0.34   |
| February 15, 2023<br>March 1, 2023   |  |  | A   | 1.1  |  |   | March 29, 2023   | <0.34   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023   | March 29, 2023   | <0.34  | March 15, 2023  | March 29, 2023   | <0.34  | March 15, 2023  |  | < 0.33  |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023   | March 29, 2023<br>April 12, 2023   | <0.34<br>0.464   | March 29, 2023  | April 12, 2023   | <0.33  | March 29, 2023  | April 12, 2023   |   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 12, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023   | <0.34<br>0.464<br>1.13   | March 29, 2023<br>April 12, 2023  | April 12, 2023<br>April 26, 2023   | <0.33<br>0.383   | March 29, 2023<br>April 12, 2023  | April 26, 2023   | <0.33   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 12, 2023<br>April 26, 2023   | March 29, 2023<br>April 12, 2023   | <0.34<br>0.464   | March 29, 2023  | April 12, 2023<br>April 26, 2023<br>May 10, 2023   | <0.33  | March 29, 2023<br>April 12, 2023<br>April 26, 2023  | April 26, 2023<br>May 10, 2023   |   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 12, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023   | <0.34<br>0.464<br>1.13   | March 29, 2023<br>April 12, 2023  | April 12, 2023<br>April 26, 2023   | <0.33<br>0.383   | March 29, 2023<br>April 12, 2023  | April 26, 2023   | <0.33   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 12, 2023<br>April 26, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023   | <0.34<br>0.464<br>1.13<br>1.69   | March 29, 2023<br>April 12, 2023<br>April 26, 2023  | April 12, 2023<br>April 26, 2023<br>May 10, 2023   | <0.33<br>0.383<br>0.904  | March 29, 2023<br>April 12, 2023<br>April 26, 2023  | April 26, 2023<br>May 10, 2023   | <0.33<br><0.33  |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023  | April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023   | <0.33<br>0.383<br>0.904<br>0.441   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023  | April 26, 2023<br>May 10, 2023<br>May 24, 2023   | <0.33<br><0.33<br><0.33   |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 22, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023  | April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023   | <0.33<br>0.383<br>0.904<br>0.441<br>1.30   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023  | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023   | <0.33<br><0.33<br><0.33<br><0.33  |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 26, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023  | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023   | April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023   | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023  | <0.33<br><0.33<br><0.33<br><0.33<br><0.33<br><0.33<br><0.33   |
| February 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 2023<br>April 26, 2023<br>Way 10, 2023<br>Way 24, 2023<br>Unue 7, 2023<br>Unue 21, 2023<br>Unue 21, 2023   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>Juny 5, 2023<br>July 19, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023   | April 12, 2023           April 26, 2023           May 10, 2023           June 7, 2023           June 71, 2023           June 21, 2023           Juny 5, 2023           July 9, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023   | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>July 19, 2023  | <ul> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> </ul>  |
| ebruary 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 2023<br>Way 10, 2023<br>Way 24, 2023<br>Way 19, 2023  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023  | April 12, 2023           April 26, 2023           May 10, 2023           May 24, 2023           June 7, 2023           June 21, 2023           July 5, 2023           July 9, 2023           July 9, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023  | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023   | <ul> <li>&lt;0.33</li> </ul>  |
| ebruary 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 2023<br>Way 10, 2023<br>Way 24, 2023  | March 29, 2023           April 12, 2023           April 26, 2023           May 10, 2023           June 7, 2023           June 21, 2023           July 5, 2023           July 19, 2023           August 2, 2023           August 2, 2023           July 19, 2023           August 16, 2023  | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33<br><0.33  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023  | April 12, 2023           April 26, 2023           May 10, 2023           Juay 24, 2023           June 21, 2023           July 5, 2023           July 5, 2023           July 19, 2023           August 2, 2023           August 16, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023  | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023  | <ul> <li>&lt;0.33</li> </ul>  |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 22, 2023<br>May 10, 2023<br>May 10, 2023<br>May 24, 2023<br>May 24, 2023<br>May 24, 2023<br>May 24, 2023<br>May 24, 2023<br>May 5, 2023<br>August 2, 2023<br>August 16, 2023   | March 29, 2023           April 12, 2023           April 126, 2023           May 10, 2023           June 7, 2023           June 21, 2023           July 5, 2023           July 19, 2023           August 2, 2023           August 2, 2023           August 2, 2023           August 30, 2023  | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33<br><0.33<br>0.494   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023  | April 12, 2023           April 26, 2023           May 10, 2023           May 24, 2023           June 7, 2023           June 21, 2023           July 5, 2023           July 19, 2023           August 16, 2023           August 30, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023   | April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023   | <ul> <li>&lt;0.33</li> </ul>  |
| February 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>April 29, 2023<br>April 26, 2023<br>May 10, 2023<br>Way 24, 2023<br>Way 24, 2023<br>Way 24, 2023<br>Way 22, 2023<br>Way 19, 2023<br>Way 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023   | March 29, 2023         April 12, 2023           April 12, 2023         April 126, 2023           May 10, 2023         Image 12, 2023           June 21, 2023         June 21, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           August 16, 2023         August 10, 2023           September 13, 2023         September 13, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33<br>0.494<br>0.486   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023   | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 19, 2023         August 2, 2023           August 16, 2023         August 30, 2023           September 13, 2023         September 13, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023   | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 2, 2023<br>August 30, 2023<br>September 13, 2023   | <ul> <li>&lt;0.33</li> </ul>  |
| ebruary 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 2023<br>May 10, 2023<br>May 10, 2023<br>May 24, 2023<br>Une 7, 2023<br>Une 21, 2023<br>Uny 5, 2023<br>Uny 19, 2023<br>August 2, 2023<br>August 10, 2023<br>Eeptember 13, 2023   | March 29, 2023         April 12, 2023           April 12, 2023         May 10, 2023           May 10, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           August 16, 2023         September 13, 2023           September 27, 2023         September 27, 2023  | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33<br><0.33<br>0.494<br>0.486<br>3.99  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023  | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 21, 2023           June 21, 2023         July 5, 2023           July 19, 2023         July 19, 2023           August 2, 2023         August 16, 2023           August 30, 2023         September 13, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552<br><0.33<br>1.87   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>June 21, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023  | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 16, 2023         August 30, 2023         September 13, 2023         September 27, 2023   | <ul> <li>&lt;0.33</li> <li>&lt;0.34</li> <li>&lt;0.35</li> <li>&lt;0.35</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.37</li> <li>&lt;0.38</li> <li>&lt;0.38</li> <li>&lt;0.39</li> <li>&lt;0.39</li> <li>&lt;0.39</li> <li>&lt;0.30</li> <li>&lt;0.31</li> <li>&lt;0.31</li> <li>&lt;0.32</li> <li>&lt;0.32</li> <li>&lt;0.34</li> <li>&lt;0.34</li> <li>&lt;0.35</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li>&lt;0.36</li> <li>&lt;0.37</li> <li>&lt;0.36</li> <li></li></ul> |
| ebruary 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 023<br>April 26, 2023<br>Way 10, 2023<br>Way 24, 2023<br>Une 21, 2023<br>Une 21, 2023<br>Uny 5, 2023<br>Uny 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023  | March 29, 2023         April 12, 2023           April 12, 2023         May 10, 2023           May 10, 2023         June 7, 2023           June 21, 2023         June 21, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           July 19, 2023         August 2, 2023           September 13, 2023         September 13, 2023           September 27, 2023         October 11, 2023   | <0.34<br>0.464<br>1.13<br>1.69<br>1.46<br>5.26<br>2.20<br>0.46<br>0.458<br><0.33<br><0.33<br>0.494<br>0.486<br>3.99<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023   | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 7, 2023         June 7, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           August 16, 2023         September 13, 2023           September 13, 2023         September 17, 2023           October 11, 2023         September 27, 2023   | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552<br><0.33<br>1.87<br><0.33  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 2, 2023<br>August 30, 2023<br>September 13, 2023  | April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>August 2, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 27, 2023<br>October 11, 2023   | <ul> <li>&lt;0.33</li> <li>&lt;0.34</li> <li>&lt;0.35</li> <li>&lt;0.35</li> <li>&lt;0.35</li> <li>&lt;0.36</li> <li></li></ul> |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>Appril 26, 2023<br>May 10, 2023<br>May 24, 2023<br>May 19, 2023<br>August 2, 2023<br>August 16, 2023<br>September 13, 2023<br>September 27, 2023<br>October 11, 2023   | March 29, 2023         April 12, 2023           April 12, 2023         April 26, 2023           May 10, 2023         May 24, 2023           June 7, 2023         June 21, 2023           June 21, 2023         July 19, 2023           August 10, 2023         August 2, 2023           August 30, 2023         September 13, 2023           September 13, 2023         Cotober 11, 2023           October 12, 2023         Cotober 25, 2023   | <ul> <li>&lt;0.34</li> <li>0.464</li> <li>1.13</li> <li>1.69</li> <li>1.46</li> <li>5.26</li> <li>2.20</li> <li>0.46</li> <li>0.458</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.494</li> <li>0.486</li> <li>3.99</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> </ul> | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 27, 2023   | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 19, 2023         July 19, 2023           August 2, 2023         August 30, 2023           September 13, 2023         September 13, 2023           October 11, 2023         October 25, 2023  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552<br><0.33<br>1.87<br><0.33<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 16, 2023<br>September 13, 2023<br>September 27, 2023<br>October 11, 2023                         | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 16, 2023         August 30, 2023         September 13, 2023         October 11, 2023         October 25, 2023  | <ul> <li>&lt;0.33</li> </ul>  |
| February 15, 2023<br>March 1, 2023<br>March 15, 2023<br>March 29, 2023<br>April 26, 2023<br>May 10, 2023<br>May 24, 2023<br>May 10, 2023<br>May 10, 2023<br>August 2, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 27, 2023<br>October 12, 2023   | March 29, 2023           April 12, 2023           April 12, 2023           April 26, 2023           May 10, 2023           June 7, 2023           June 21, 2023           July 5, 2023           July 19, 2023           August 2, 2023           August 2, 2023           August 30, 2023           September 13, 2023           September 12, 2023           October 12, 2023           November 8, 2023   | <ul> <li>&lt;0.34</li> <li>0.464</li> <li>1.13</li> <li>1.69</li> <li>1.46</li> <li>5.26</li> <li>2.20</li> <li>0.46</li> <li>0.458</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> <li>&lt;0.33</li> </ul>             | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023<br>October 25, 2023                     | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 5, 2023         July 5, 2023           August 16, 2023         August 30, 2023           September 13, 2023         September 13, 2023           October 12, 2023         October 25, 2023           November 8, 2023         Pageageageageageageageageageageageageagea  | <0.33<br>0.383<br>0.904<br>0.441<br>1.30<br>1.27<br>0.345<br><0.33<br><0.33<br><0.33<br>0.552<br><0.33<br>1.87<br><0.33<br><0.33<br><0.33<br><0.33   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023   | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 30, 2023         September 13, 2023         September 27, 2023         October 11, 2023         November 8, 2023   | <ul> <li>&lt;0.33</li> </ul>  |
| February 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 26, 2023<br>May 10, 2023<br>May 10, 2023<br>May 24, 2023<br>Une 7, 2023<br>Une 7, 2023<br>Une 7, 2023<br>Une 7, 2023<br>Une 7, 2023<br>Une 7, 2023<br>August 2, 2023<br>August 2, 2023<br>August 46, 2023<br>September 13, 2023<br>September 13, 2023<br>September 27, 2023<br>October 25, 2023<br>November 8, 2023  | March 29, 2023         April 12, 2023           April 12, 2023         April 126, 2023           May 10, 2023         Image 10, 2023           June 7, 2023         June 21, 2023           July 5, 2023         July 5, 2023           July 5, 2023         August 2, 2023           August 16, 2023         August 30, 2023           September 13, 2023         September 77, 2023           October 11, 2023         October 25, 2023           November 8, 2023         November 8, 2023  | <0.34  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023<br>October 25, 2023<br>November 8, 2023 | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 5, 2023         July 19, 2023           August 10, 2023         August 16, 2023           August 30, 2023         September 13, 2023           September 27, 2023         October 11, 2023           October 25, 2023         November 8, 2023           November 8, 2023         November 22, 2023  | <ul> <li>&lt;0.33</li> <li>0.383</li> <li>0.904</li> <li>0.441</li> <li>1.30</li> <li>1.27</li> <li>0.345</li> <li>&lt;0.33</li> </ul>   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023<br>October 25, 2023<br>November 8, 2023 | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 2, 2023         August 30, 2023         September 13, 2023         September 12, 2023         October 11, 2023         October 25, 2023         November 8, 2023         November 8, 2023 | <ul> <li>&lt;0.33</li> </ul>  |
| February 15, 2023<br>Warch 1, 2023<br>Warch 15, 2023<br>Warch 29, 2023<br>April 22, 2023<br>May 10, 2023<br>May 10, 2023<br>May 24, 2023<br>May 24 | March 29, 2023         April 12, 2023           April 12, 2023         April 126, 2023           May 10, 2023         May 10, 2023           June 7, 2023         June 21, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           August 16, 2023         August 16, 2023           September 13, 2023         September 27, 2023           October 11, 2023         November 8, 2023           November 22, 2023         December 6, 2023 | <0.34  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 12, 2023<br>October 11, 2023<br>October 12, 2023<br>November 8, 2023 | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 5, 2023         July 19, 2023           July 19, 2023         August 2, 2023           August 16, 2023         August 16, 2023           September 13, 2023         September 13, 2023           October 11, 2023         October 25, 2023           November 8, 2023         November 8, 2023           December 6, 2023         December 6, 2023 | <ul> <li>&lt;0.33</li> <li>0.383</li> <li>0.904</li> <li>0.441</li> <li>1.30</li> <li>1.27</li> <li>0.345</li> <li>&lt;0.33</li> <li>&lt;0.34</li> </ul> | March 29, 2023<br>April 22, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 27, 2023<br>October 12, 2023<br>November 8, 2023                     | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 16, 2023         September 13, 2023         September 13, 2023         October 11, 2023         October 25, 2023         November 8, 2023         December 6, 2023   | <ul> <li>&lt;0.33</li> <li>&lt;0.34</li> </ul>  |
| February 15, 2023           Warch 1, 2023           Warch 15, 2023           Warch 29, 2023           April 12, 2023           April 26, 2023           Way 10, 2023           Way 10, 2023           Une 7, 2023           Ung 5, 2023           Uly 19, 2023           August 6, 2023           August 16, 2023           August 16, 2023           September 13, 2023           September 27, 2023           October 75, 2023           November 8, 2023  | March 29, 2023         April 12, 2023           April 12, 2023         April 126, 2023           May 10, 2023         Image 10, 2023           June 7, 2023         June 21, 2023           July 5, 2023         July 5, 2023           July 5, 2023         August 2, 2023           August 16, 2023         August 30, 2023           September 13, 2023         September 77, 2023           October 11, 2023         October 25, 2023           November 8, 2023         November 8, 2023  | <0.34  | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023<br>October 25, 2023<br>November 8, 2023 | April 12, 2023         April 26, 2023           April 26, 2023         May 10, 2023           May 24, 2023         June 7, 2023           June 21, 2023         July 5, 2023           July 5, 2023         July 19, 2023           August 10, 2023         August 16, 2023           August 30, 2023         September 13, 2023           September 27, 2023         October 11, 2023           October 25, 2023         November 8, 2023           November 8, 2023         November 22, 2023  | <ul> <li>&lt;0.33</li> <li>0.383</li> <li>0.904</li> <li>0.441</li> <li>1.30</li> <li>1.27</li> <li>0.345</li> <li>&lt;0.33</li> </ul>   | March 29, 2023<br>April 12, 2023<br>April 26, 2023<br>May 10, 2023<br>June 7, 2023<br>June 7, 2023<br>July 5, 2023<br>July 19, 2023<br>August 2, 2023<br>August 16, 2023<br>August 30, 2023<br>September 13, 2023<br>September 13, 2023<br>October 11, 2023<br>October 25, 2023<br>November 8, 2023 | April 26, 2023         May 10, 2023         May 24, 2023         June 7, 2023         July 5, 2023         July 19, 2023         August 2, 2023         August 2, 2023         August 30, 2023         September 13, 2023         September 12, 2023         October 11, 2023         October 25, 2023         November 8, 2023         November 8, 2023 | <ul> <li>&lt;0.33</li> </ul>  |



#### **2023 Statistical Analysis Calculations**

There is no statistically significant increase in the concentrations of 1,3 Butadiene for the 2023 reporting year. The test statistics calculated are below the Table 7-62 Column 2 values therefore no action is required as outlined S.63.

| Section 62 - Statistic                    | cal Analysis o  | of Ambient Mo                                  | nitor 1,3-But  | tadiene Conce    | ntration M          | easurements |                     |             |                     |             |                     |             |
|---|---|--|--|------------------|---------------------|-------------|---------------------|-------------|---------------------|-------------|---------------------|-------------|
| 2023 Reporting Year                       |   |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | Monitor Location #1   |  | Monitor Location #2                                      |                  | Monitor Location #3 |             | Monitor Location #4 |             | Monitor Location #5 |             | Monitor Location #6 |             |
|   | ug/m <sup>3</sup>   | $\log_e(x)$                                    | ug/m <sup>3</sup>  | $\log_e(x)$      | ug/m <sup>3</sup>   | $\log_e(x)$ | ug/m <sup>3</sup>   | $\log_e(x)$ | ug/m <sup>3</sup>   | $\log_e(x)$ | ug/m <sup>3</sup>   | $log_e(x)$  |
| January 4, 2023                           | 0.17  | -1.77195684                                    | 0.17   | -1.77195684      | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| January 18, 2023                          | 0.17  | -1.77195684                                    | 0.698  | -0.35953618      | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| February 1, 2023                          | 0.17  | -1.77195684                                    | 0.768  | -0.26396555      | 0.36                | -1.02443289 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| February 15, 2023                         | 0.17  | -1.77195684                                    | 0.895  | -0.11093156      | 0.54                | -0.62175718 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| March 1, 2023                             | 0.673   | -0.39600995                                    | 0.75   | -0.28768207      | 0.41                | -0.89404012 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| March 15, 2023                            | 0.17  | -1.77195684                                    | 0.17   | -1.77195684      | 0.992               | -0.00803217 | 0.967               | -0.03355678 | 0.398               | -0.92130327 | 0.17                | -1.77195684 |
| March 29, 2023                            | 0.17  | -1.77195684                                    | 0.47   | -0.75077629      | 0.58                | -0.54300452 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| April 12, 2023                            | 0.637   | -0.45098562                                    | 1.85   | 0.615185639      | 1.40                | 0.336472237 | 0.464               | -0.76787073 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| April 26, 2023                            | 0.783   | -0.24462258                                    | 1.36   | 0.3074847        | 5.92                | 1.778336449 | 1.13                | 0.122217633 | 0.383               | -0.95972029 | 0.17                | -1.77195684 |
| May 10, 2023                              | 2.38  | 0.867100488                                    | 4.87   | 1.583093937      | 6.01                | 1.793424749 | 1.69                | 0.524728529 | 0.904               | -0.10092592 | 0.17                | -1.77195684 |
| May 24, 2023                              | 0.565   | -0.57092955                                    | 1.18   | 0.165514438      | 3.69                | 1.305626458 | 1.46                | 0.378436436 | 0.441               | -0.8187104  | 0.17                | -1.77195684 |
| June 7, 2023                              | 0.609   | -0.49593701                                    | 1.17   | 0.157003749      | 4.78                | 1.564440547 | 5.26                | 1.660131027 | 1.3                 | 0.262364264 | 0.17                | -1.77195684 |
| June 21, 2023                             | 1.15  | 0.139761942                                    | 0.78   | -0.24718013      | 2.59                | 0.951657876 | 2.2                 | 0.78845736  | 1.27                | 0.2390169   | 0.17                | -1.77195684 |
| July 5, 2023                              | 0.509   | -0.67530726                                    | 1.05   | 0.048790164      | 0.88                | -0.13010869 | 0.46                | -0.77652879 | 0.345               | -1.06421086 | 0.17                | -1.77195684 |
| July 19, 2023                             | 2.31  | 0.837247525                                    | 1.70   | 0.530628251      | 1.49                | 0.39877612  | 0.46                | -0.78088609 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| August 2, 2023                            | 0.942   | -0.05975                                       | 1.59   | 0.463734016      | 0.606               | -0.50087529 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| August 16, 2023                           | 0.17  | -1.77195684                                    | 0.17   | -1.77195684      | 0.74                | -0.29571424 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| August 30, 2023                           | 1.13  | 0.122217633                                    | 1.26   | 0.231111721      | 0.85                | -0.16841865 | 0.494               | -0.70521976 | 0.552               | -0.59420723 | 0.17                | -1.77195684 |
| September 13, 2023                        | 0.17  | -1.77195684                                    | 0.17   | -1.77195684      | 0.17                | -1.77195684 | 0.486               | -0.72154666 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| September 27, 2023                        | 2.87  | 1.05431203                                     | 1.57   | 0.451075619      | 0.71                | -0.34531119 | 3.99                | 1.383791231 | 1.87                | 0.625938431 | 5.09                | 1.627277831 |
| October 11, 2023                          | 0.36  | -1.0300195                                     | 0.55   | -0.60147999      | 0.64                | -0.44785082 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| October 25, 2023                          | 0.92  | -0.08555789                                    | 1.07   | 0.067658648      | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| November 8, 2023                          | 0.37  | -1.00239343                                    | 0.72   | -0.33128571      | 0.34                | -1.07294454 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| November 22, 2023                         | 1.06  | 0.058268908                                    | 1.76   | 0.565313809      | 1.41                | 0.343589704 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| December 6, 2023                          | 0.17  | -1.77195684                                    | 0.76   | -0.27180872      | 0.37                | -0.98886142 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| December 20, 2023                         | 0.17  | -1.77195684                                    | 0.49   | -0.71539279      | 0.72                | -0.33267944 | 0.17                | -1.77195684 | 0.17                | -1.77195684 | 0.17                | -1.77195684 |
| Mean                                      |   | -0.7558528                                     |  | -0.22466429      |                     | -0.23036671 |                     | -0.91289394 |                     | -1.28673172 |                     | -1.64121705 |
|   |   | 0.906843049                                    |  | 0.693369412      |                     |             |                     |             |                     | 0.591328477 |                     |             |
| Standard Deviation Squa                   | irea  | 0.906843049                                    |  | 0.693369412      |                     | 1.139195786 |                     | 1.233497655 |                     | 0.591328477 |                     | 0.444415245 |
| Test Statistic                            |   | 0.463465004                                    |  | -0.29540317      |                     | 1.547426932 |                     | 0.288243893 |                     | -0.81906096 |                     | 0.225873402 |
| Degrees of Freedom                        |   | 43.7   |  | 51.7             |                     | 38.9        |                     | 36.6        |                     | 49.1        |                     | 28.7        |
| Table 7-62                                |   | 3.551  |  | 3.551            |                     | 3.551       |                     | 3.551       |                     | 3.46        |                     | 3.659       |
|   |   |  |  |                  |                     |             |                     |             |                     |             |                     |             |
| Number of Samples<br>Number of samples -1 |   | 26<br>25                                       |  | 26<br>25         |                     | 26<br>25    |                     | 26<br>25    |                     | 26<br>25    |                     | 20          |
| Number of sumples 1                       |   | 25   |  | 25               |                     | 25          |                     | 25          |                     | 25          |                     | 2.          |
| IF TABLE 7-62 VALUE IS                    | > Test Statistic t  | here is no signific                            | ant increase in  | concentration at | that monitor        |             |                     |             |                     |             |                     |             |
| paragraph 2                               | logarith of sa  | mple result                                    |  |                  |                     |             |                     |             |                     |             |                     |             |
| paragraph 3                               | mean of sam   | ple result logarithr                           | ns   |                  |                     |             |                     |             |                     |             |                     |             |
| paragraph 4                               | square of standard deviation of sample result logarithms $(S_1^2, 3YR \text{ or } S_2^2, ThisYR)$ |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | tost statistic /  | (T) where                                      |  |                  |                     |             |                     |             |                     |             |                     |             |
| paragraph 5                               | test statistic (T), where   |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | $T = (Y - X) / Sqrt (S_1^2/m + S_2^2/n)$  |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | Y = Paragraph 3 (this worksheet   |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | X = Paragraph 3 (3YR worksheet  |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | S <sub>1</sub> = Paragraph 4 (3YR workshee  |  | et)  |                  |                     |             |                     |             |                     |             |                     |             |
|   | S <sub>2</sub> = Paragraph 4 (this workshee   |  | et)  |                  |                     |             |                     |             |                     |             |                     |             |
|   | m = number of samples (3YR wor  |  |  |                  |                     |             |                     |             |                     |             |                     |             |
|   | n = number o  | f samples (this wo                             | rksheet)   |                  |                     |             |                     |             |                     |             |                     |             |
| Paragraph 6                               | Degrees of fr   | eedom (v), where                               |  |                  |                     |             |                     |             |                     |             |                     |             |
|   |   | ${}_{2}^{2}/n)^{2]}/[S_{1}^{2}/m)^{2}/(m)^{2}$ | n-1) + (S <sub>2</sub> <sup>2</sup> /n) <sup>2</sup> /(r | n-1)]            |                     |             |                     |             |                     |             |                     |             |
|   |   |  |  |                  |                     |             |                     |             |                     |             |                     |             |
| Paragraph 7                               | Table 7-62 Co   | olumn 2  |  |                  |                     |             |                     |             |                     |             |                     |             |