



PORT WARATAH COAL SERVICES  
**EPL MONITORING DATA**  
**KOORAGANG**  
**COAL TERMINAL**



PORT WARATAH  
COAL SERVICES

## CONTENTS

|   |    |
|---|----|
| PREMISES DETAILS .....                                  | 3  |
| AMBIENT DUST MONITORING – DEPOSITED DUST .....          | 4  |
| AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER ..... | 7  |
| DISCHARGE TO WATERS – OVERFLOW QUALITY.....             | 10 |
| DATA CORRECTION LOG.....                                | 20 |
| SITE MAP AND MONITORING LOCATIONS .....                 | 21 |

## PREMISES DETAILS

|  |   |
|--|---|
| <b>Environment Protection Licence Number:</b>    | 1552  |
| <b>Licensee's Name:</b>                          | Port Waratah Coal Services Limited          |
| <b>Premises Name:</b>                            | Kooragang Coal Terminal                     |
| <b>Premises Address:</b>                         | Curlew Street,<br>Kooragang Island NSW 2304 |
| <b>Link to POEO Public Register:</b>             | <a href="#">Click Here</a>                  |
| <b>Link to EPL 1552 on POEO Public Register:</b> | <a href="#">Click Here</a>                  |

## AMBIENT DUST MONITORING – DEPOSITED DUST

Monitoring frequency for Deposited Dust Monitoring is monthly. **Note:** g/m<sup>2</sup>/month refers to ‘grams per square metre per month’

On 22<sup>nd</sup> February 2016, the EPA approved an amendment to the Kooragang Coal Terminal Environment Protection Licence (EPL1552), removing the requirement for ambient air quality monitoring due to the commencement of the [Newcastle Local Air Quality Monitoring Network](#). Although Port Waratah is no longer obliged to publish ambient air quality data obtained after 22<sup>nd</sup> February 2016, for historical continuity and transparency of data for the public, ambient air quality data for the locations previously listed in EPL1552 will continue to be published.

| Sample Period       |         |                 |                                     |                         | Jan 2018  | Feb 2018  | Mar 2018  | Apr 2018  | May 2018  | Jun 2018  | Jul 2018         | Aug 2018  | Sep 2018          | Oct 2018   | Nov 2018   | Dec 2018   |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-----------|-------------------|------------|------------|------------|
| Sample Date         |         |                 |                                     |                         | 29/1/2018 | 27/2/2018 | 27/3/2018 | 27/4/2018 | 29/5/2018 | 28/6/2018 | 27/7/2018        | 28/8/2018 | 27/9/2018         | 29/10/2018 | 29/11/2018 | 28/12/2018 |
| Date Data Obtained  |         |                 |                                     |                         | 12/2/2018 | 15/3/2018 | 13/4/2018 | 15/5/2018 | 15/6/2018 | 16/7/2018 | 14/8/2018        | 14/9/2018 | 12/10/2018        | 12/11/2018 | 13/12/2018 | 31/12/2018 |
| Date Data Published |         |                 |                                     |                         | 22/2/2018 | 20/3/2018 | 19/4/2018 | 18/5/2018 | 22/6/2018 | 23/7/2018 | 21/8/2018        | 18/9/2018 | 22/10/2018        | 26/11/2018 | 19/12/2018 | 12/02/2019 |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |           |           |           |           |           |           |                  |           |                   |            |            |            |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 0.3       | 0.4       | 0.6       | 0.6       | 0.4       | 0.2       | 0.1              | 0.4       | 0.2               | 0.5        | 0.6        | 0.4        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.4       | 0.5       | 0.6       | 0.4       | 0.2       | 0.2       | 0.3              | 0.5       | 0.3               | 0.3        | 0.3        | 0.8        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 0.7       | 0.9       | 1.2       | 1.0       | 0.6       | 0.4       | 0.4              | 0.9       | 0.5               | 0.8        | 0.9        | 1.2        |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.4       | 0.4       | 0.7       | 0.5       | 0.4       | 0.5       | 2.0              | 0.6       | 2.9               | 1.1        | 0.5        | 2.1        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.4       | 0.5       | 0.8       | 0.4       | 0.4       | 0.5       | 2.5              | 0.9       | 28.5              | 2.2        | 0.8        | 4.6        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 0.8       | 0.9       | 1.5       | 0.9       | 0.8       | 1.0       | 4.5 <sup>A</sup> | 1.5       | 31.4 <sup>B</sup> | 3.3        | 1.3        | 6.7        |

| Sample Period       |         |                 |                                     |                         | Jan 2019  | Feb 2019  | Mar 2019  | Apr 2019   | May 2019   | Jun 2019   | July 2019  | Aug 2019   | Sep 2019   | Oct 2019   | Nov 2019   | Dec 2019   |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Date         |         |                 |                                     |                         | 29/1/2019 | 27/2/2019 | 28/3/2019 | 29/04/2019 | 29/05/2019 | 27/06/2019 | 29/07/2019 | 29/08/2019 | 27/09/2019 | 30/10/2019 | 28/11/2019 | 30/12/2019 |
| Date Data Obtained  |         |                 |                                     |                         | 15/2/2019 | 14/3/2019 | 12/4/2019 | 13/05/2019 | 13/06/2019 | 12/07/2019 | 13/08/2019 | 13/09/2019 | 16/10/2019 | 26/11/2019 | 17/12/2019 | 17/01/2020 |
| Date Data Published |         |                 |                                     |                         | 20/2/2019 | 26/3/2019 | 16/4/2019 | 14/05/2019 | 18/06/2019 | 17/07/2019 | 15/08/2019 | 19/09/2019 | 18/10/2019 | 26/11/2019 | 20/12/2019 | 30/01/2020 |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |           |           |           |            |            |            |            |            |            |            |            |            |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 0.4       | 0.7       | 0.4       | 0.1        | 0.4        | 0.5        | 0.2        | 0.4        | 0.5        | 0.4        | 0.9        | 1.4        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.6       | 1.5       | 1.3       | 0.4        | 0.2        | 0.5        | 0.2        | 0.5        | 0.7        | 0.9        | 2.2        | 1.8        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 1.0       | 2.2       | 1.7       | 0.5        | 0.6        | 1.0        | 0.4        | 0.9        | 1.2        | 1.3        | 3.1        | 3.2        |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.4       | 0.7       | 0.4       | 0.3        | 0.6        | 0.6        | 0.4        | 0.8        | 0.5        | 0.5        | 0.8        | 0.5        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 1.4       | 1.2       | 1.0       | 0.5        | 0.4        | 0.8        | 0.4        | 0.6        | 1.0        | 1.0        | 1.9        | 1.2        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 1.8       | 1.9       | 1.4       | 0.8        | 1.0        | 1.4        | 0.8        | 1.4        | 1.5        | 1.5        | 2.7        | 1.7        |

<sup>A</sup> July 2018 result for DDG-K8 contained a large proportion of sand

<sup>B</sup> September 2018 result for DDG-K8 contained a significant volume of sand

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**AMBIENT DUST MONITORING – DEPOSITED DUST**

| Sample Period       |         |                 |                                     |                         | Jan 2019  | Feb 2019  | Mar 2019  | Apr 2019   | May 2019   | Jun 2019   | July 2019  | Aug 2019   | Sep 2019   | Oct 2019   | Nov 2019   | Dec 2019   |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Date         |         |                 |                                     |                         | 29/1/2019 | 27/2/2019 | 28/3/2019 | 29/04/2019 | 29/05/2019 | 27/06/2019 | 29/07/2019 | 29/08/2019 | 27/09/2019 | 30/10/2019 | 28/11/2019 | 30/12/2019 |
| Date Data Obtained  |         |                 |                                     |                         | 15/2/2019 | 14/3/2019 | 12/4/2019 | 13/05/2019 | 13/06/2019 | 12/07/2019 | 13/08/2019 | 13/09/2019 | 16/10/2019 | 26/11/2019 | 17/12/2019 | 17/01/2020 |
| Date Data Published |         |                 |                                     |                         | 20/2/2019 | 26/3/2019 | 16/4/2019 | 14/05/2019 | 18/06/2019 | 17/07/2019 | 15/08/2019 | 19/09/2019 | 18/10/2019 | 26/11/2019 | 20/12/2019 | 30/01/2020 |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |           |           |           |            |            |            |            |            |            |            |            |            |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 0.4       | 0.7       | 0.4       | 0.1        | 0.4        | 0.5        | 0.2        | 0.4        | 0.5        | 0.4        | 0.9        | 1.4        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.6       | 1.5       | 1.3       | 0.4        | 0.2        | 0.5        | 0.2        | 0.5        | 0.7        | 0.9        | 2.2        | 1.8        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 1.0       | 2.2       | 1.7       | 0.5        | 0.6        | 1.0        | 0.4        | 0.9        | 1.2        | 1.3        | 3.1        | 3.2        |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.4       | 0.7       | 0.4       | 0.3        | 0.6        | 0.6        | 0.4        | 0.8        | 0.5        | 0.5        | 0.8        | 0.5        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 1.4       | 1.2       | 1.0       | 0.5        | 0.4        | 0.8        | 0.4        | 0.6        | 1.0        | 1.0        | 1.9        | 1.2        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 1.8       | 1.9       | 1.4       | 0.8        | 1.0        | 1.4        | 0.8        | 1.4        | 1.5        | 1.5        | 2.7        | 1.7        |

| Sample Period       |         |                 |                                     |                         | Jan 2020   | Feb 2020   | Mar 2020   | Apr 2020   | May 2020   | Jun 2020   | Jul 2020   | Aug 2020   | Sep 2020   | Oct 2020   | Nov 2020   | Dec 2020   |     |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|
| Sample Date         |         |                 |                                     |                         | 31/01/2020 | 29/02/2020 | 31/03/2020 | 29/04/2020 | 28/05/2020 | 29/06/2020 | 29/07/2020 | 28/08/2020 | 28/09/2020 | 30/10/2020 | 30/11/2020 | 30/12/2020 |     |
| Date Data Obtained  |         |                 |                                     |                         | 19/02/2020 | 26/03/2020 | 20/04/2020 | 19/05/2020 | 19/06/2020 | 14/07/2020 | 17/08/2020 | 14/09/2020 | 16/10/2020 | 16/11/2020 | 16/12/2020 | 15/01/2021 |     |
| Date Data Published |         |                 |                                     |                         | 27/02/2020 | 26/03/2020 | 29/04/2020 | 20/05/2020 | 24/06/2020 | 23/07/2020 | 27/08/2020 | 07/09/2020 | 23/10/2020 | 04/12/2020 | 17/12/2020 | 21/01/2021 |     |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |            |            |            |            |            |            |            |            |            |            |            |            |     |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 1.1        | 0.6        | 0.3        | 0.2        | 0.4        | 0.3        | 0.3        | 0.3        | 0.4        | 0.4        | 0.3        | 0.3        |     |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 3.9        | 1.3        | 0.6        | 0.8        | 0.6        | 0.4        | 0.5        | 0.6        | 0.4        | 0.4        | 0.4        | 0.4        | 0.7 |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 5.0        | 1.9        | 0.9        | 1.0        | 1.0        | 0.7        | 0.8        | 0.9        | 0.8        | 0.8        | 0.8        | 0.7        | 1.0 |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.8        | 0.5        | 0.3        | 0.2        | 0.3        | 0.3        | 0.2        | 0.3        | 0.3        | 0.4        | 0.3        | 0.3        |     |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 3.5        | 1.0        | 0.7        | 0.7        | 0.6        | 0.4        | 0.4        | 0.6        | 0.3        | 0.5        | 0.5        | 0.5        | 0.7 |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 4.3        | 1.5        | 1.0        | 0.9        | 0.9        | 0.7        | 0.6        | 0.9        | 0.6        | 0.9        | 0.6        | 0.9        | 0.8 |

# EPL MONITORING DATA: KOORAGANG COAL TERMINAL

## AMBIENT DUST MONITORING – DEPOSITED DUST

| Sample Period       |         |                 |                                     |                         | Jan 2021   | Feb 2021   | Mar 2021   | Apr 2021   | May 2021   | Jun 2021   | Jul 2021   | Aug 2021   | Sep 2021   | Oct 2021         | Nov 2021   | Dec 2021   |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------|------------|
| Sample Date         |         |                 |                                     |                         | 29/01/2021 | 01/03/2021 | 31/03/2021 | 29/04/2021 | 31/05/2021 | 30/06/2021 | 29/07/2021 | 30/08/2021 | 29/09/2021 | 30/10/2021       | 29/11/2021 | 30/12/2021 |
| Date Data Obtained  |         |                 |                                     |                         | 11/02/2021 | 15/03/2021 | 05/05/2021 | 17/05/2021 | 17/06/2021 | 14/07/2021 | 13/08/2021 | 15/09/2021 | 14/10/2021 | 15/11/2021       | 20/12/2021 | 17/01/2022 |
| Date Data Published |         |                 |                                     |                         | 17/02/2021 | 23/03/2021 | 13/05/2021 | 27/05/2021 | 01/07/2021 | 22/07/2021 | 26/08/2021 | 23/09/2021 | 21/10/2021 | 25/11/2021       | 30/12/2021 | 20/01/2022 |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |            |            |            |            |            |            |            |            |            |                  |            |            |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 0.1        | 0.7        | 0.5        | 0.1        | 0.2        | 0.4        | 0.3        | 0.1        | 0.4        | 1.6              | 0.3        | 0.3        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.3        | 0.6        | 0.3        | 0.3        | 0.1        | 0.2        | 0.2        | 0.3        | 0.5        | 1.0              | 0.3        | 0.2        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 0.4        | 1.3        | 0.8        | 0.4        | 0.3        | 0.6        | 0.5        | 0.4        | 0.9        | 2.6 <sup>C</sup> | 0.6        | 0.5        |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.3        | 0.5        | 0.3        | 0.3        | 0.1        | 0.2        | 0.2        | 0.2        | 0.5        | 0.2              | 0.3        | 0.3        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.6        | 0.5        | 0.4        | 0.5        | 0.2        | 0.3        | 0.4        | 0.6        | 0.8        | 0.8              | 0.8        | 0.5        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 0.9        | 1.0        | 0.7        | 0.8        | 0.3        | 0.5        | 0.6        | 0.8        | 1.3        | 1.0              | 1.1        | 0.8        |

| Sample Period       |         |                 |                                     |                         | Jan 2022   | Feb 2022   | Mar 2022   |
|---------------------|---------|-----------------|-------------------------------------|-------------------------|------------|------------|------------|
| Sample Date         |         |                 |                                     |                         | 27/01/2022 | 28/02/2022 | 31/03/2022 |
| Date Data Obtained  |         |                 |                                     |                         | 15/03/2022 | 18/03/2022 | 24/4/2022  |
| Date Data Published |         |                 |                                     |                         | 22/2/2022  | 31/3/2022  |            |
| EPA ID Number       | PWCS ID | Location        | Analyte/Pollutant                   | Unit of Measure         |            |            |            |
| N/A                 | DDG-K1  | Stockton Centre | Combustible Matter                  | g/m <sup>2</sup> /month | 0.3        | 0.2        | 0.1        |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.2        | 0.3        | 0.2        |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 0.5        | 0.5        | 0.3        |
| N/A                 | DDG-K8  | Fern Bay        | Combustible Matter                  | g/m <sup>2</sup> /month | 0.3        | 0.2        | NA         |
|                     |         |                 | Ash                                 | g/m <sup>2</sup> /month | 0.7        | 0.7        | NA         |
|                     |         |                 | Total Insoluble Solids (Total Dust) | g/m <sup>2</sup> /month | 1.0        | 0.9        | NA         |

<sup>C</sup> October 2021 result for DDG-K1 was deemed contaminated due to a low insoluble solid to ash ratio and a high percentage composition of polysaccharide slime and Copper sludge

## AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER

### AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER

Monitoring frequency for High Volume Air Samplers is a 24hr period every six (6) days.

**Note 1:** EPA Point 15 (directional HVAS-TSP, Fern Bay) operates for a 24hr period every six days. During this 24hr period, the unit operates when wind direction is from a West-Northwest to West-Southwest range for more than two minutes. When triggered the unit operates for a minimum of 6 minutes. A reportable result is when there has been a cumulative run time of at least four hours in the 24hr period. Refer to condition M2.4 of EPL 1552 for details.

**Note 2:**  $\mu\text{g}/\text{m}^3$  refers to 'micrograms per cubic metre'

On 22<sup>nd</sup> February 2016, the EPA approved an amendment to the Kooragang Coal Terminal Environment Protection Licence (EPL1552), removing the requirement for ambient air quality monitoring due to the commencement of the [Newcastle Local Air Quality Monitoring Network](#).

Although Port Waratah is no longer obliged to publish ambient air quality data obtained after 22<sup>nd</sup> February 2016, for historical continuity and transparency of data for the public, Port Waratah will continue to voluntarily publish ambient air quality data for the locations previously listed in EPL1552.

| EPA ID Number     |                    |                     | N/A                          |                           |                          |                          |                          | N/A   |                           |                          |                          |                          |
|-------------------|--------------------|---------------------|------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|---|---------------------------|--------------------------|--------------------------|--------------------------|
| PWCS ID           |                    |                     | HVAS-K2                      |                           |                          |                          |                          | HVAS-K4                                       |                           |                          |                          |                          |
| Location          |                    |                     | Fern Bay                     |                           |                          |                          |                          | Fern Bay                                      |                           |                          |                          |                          |
| Analyte/Pollutant |                    |                     | Total Suspended Particulates |                           |                          |                          |                          | Total Suspended Particulates – Directional    |                           |                          |                          |                          |
| Unit of Measure   |                    |                     | --                           | --                        | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | --  | --                        | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| Sample Period     | Date Data Obtained | Date Data Published | No. Measurements Required    | No. Measurements Recorded | Min Value                | Mean Value               | Max Value                | No. Measurements Required                     | No. Measurements Recorded | Min Value                | Mean Value               | Max Value                |
| Jan 2018          | 12/2/2018          | 22/2/2018           | 0                            | 6                         | 26                       | 53.3                     | 69                       | 0   | 0                         | --                       | --                       | --                       |
| Feb 2018          | 15/3/2018          | 20/3/2018           | 0                            | 4                         | 21                       | 49.8                     | 92                       | 0   | 2                         | 20                       | 28.0                     | 36                       |
| Mar 2018          | 13/4/2018          | 19/4/2018           | 0                            | 5                         | 27                       | 49.2                     | 78                       | 0   | 2                         | 60                       | 70.0                     | 80                       |
| Apr 2018          | 15/5/2018          | 18/5/2018           | 0                            | 5                         | 24                       | 39.8                     | 77                       | 0   | 0                         | --                       | --                       | --                       |
| May 2018          | 15/6/2018          | 22/6/2018           | 0                            | 6                         | 24                       | 35.2                     | 54                       | 0   | 0                         | --                       | --                       | --                       |
| Jun 2018          | 16/7/2018          | 23/7/2018           | 0                            | 4                         | 18                       | 25.6                     | 32                       | 0   | 2                         | 41                       | 53.5                     | 66                       |
| Jul 2018          | 14/8/2018          | 21/8/2018           | 0                            | 5                         | 32                       | 49.0                     | 85                       | 0   | 0                         | --                       | --                       | --                       |
| Aug 2018          | 14/9/2018          | 18/9/2018           | 0                            | 5                         | 30                       | 46.2                     | 61                       | 0   | 0                         | --                       | --                       | --                       |
| Sep 2018          | 12/10/2018         | 22/10/2018          | 0                            | 5                         | 20                       | 36.0                     | 46                       | 0   | 0                         | --                       | --                       | --                       |
| Oct 2018          | 12/11/2018         | 26/11/2018          | 0                            | 5                         | 35                       | 40.2                     | 55                       | 0   | 0                         | --                       | --                       | --                       |
| Nov 2018          | 13/12/2018         | 19/12/2018          | 0                            | 5                         | 35                       | 52                       | 73                       | 0   | 0                         | --                       | --                       | --                       |
| Dec 2018          | 31/12/2018         | 12/02/2019          | 0                            | 5                         | 17                       | 54.6                     | 82                       | 0   | 0                         | --                       | --                       | --                       |
| Jan 2019          | 15/2/2019          | 20/2/2019           | 0                            | 4                         | 52                       | 79.8                     | 125                      | Unit decommissioned and placed out of service |                           |                          |                          |                          |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER**

| EPA ID Number     |                    |                     | N/A                          |                           |                   |                   |                   | N/A  |                           |                   |                   |                   |
|-------------------|--------------------|---------------------|------------------------------|---------------------------|-------------------|-------------------|-------------------|--|---------------------------|-------------------|-------------------|-------------------|
| PWCS ID           |                    |                     | HVAS-K2                      |                           |                   |                   |                   | HVAS-K4                                    |                           |                   |                   |                   |
| Location          |                    |                     | Fern Bay                     |                           |                   |                   |                   | Fern Bay                                   |                           |                   |                   |                   |
| Analyte/Pollutant |                    |                     | Total Suspended Particulates |                           |                   |                   |                   | Total Suspended Particulates – Directional |                           |                   |                   |                   |
| Unit of Measure   |                    |                     | --                           | --                        | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> | --   | --                        | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> |
| Sample Period     | Date Data Obtained | Date Data Published | No. Measurements Required    | No. Measurements Recorded | Min Value         | Mean Value        | Max Value         | No. Measurements Required                  | No. Measurements Recorded | Min Value         | Mean Value        | Max Value         |
| Feb 2019          | 14/3/2019          | 26/3/2019           | 0                            | 5                         | 49                | 76.6              | 134               |  |                           |                   |                   |                   |
| Mar 2019          | 12/4/2019          | 16/4/2019           | 0                            | 5                         | 28                | 42.2              | 49                |  |                           |                   |                   |                   |
| Apr 2019          | 13/04/2019         | 14/04/2019          | 0                            | 5                         | 35                | 54                | 82                |  |                           |                   |                   |                   |
| May 2019          | 13/06/2019         | 18/06/2019          | 0                            | 5                         | 24                | 36.4              | 47                |  |                           |                   |                   |                   |
| Jun 2019          | 12/07/2019         | 17/07/2019          | 0                            | 5                         | 21                | 38.2              | 50                |  |                           |                   |                   |                   |
| Jul 2019          | 13/08/2019         | 15/08/2019          | 0                            | 6                         | 20                | 35.2              | 55                |  |                           |                   |                   |                   |
| Aug 2019          | 13/09/2019         | 19/09/2019          | 0                            | 4                         | 47                | 56.0              | 71                |  |                           |                   |                   |                   |
| Sep 2019          | 16/09/2019         | 18/09/2019          | 0                            | 6                         | 24                | 42.2              | 62                |  |                           |                   |                   |                   |
| Oct 2019          | 26/11/2019         | 26/11/2019          | 0                            | 5                         | 31                | 56.8              | 86                |  |                           |                   |                   |                   |
| Nov 2019          | 17/12/2019         | 20/12/2019          | 0                            | 5                         | 27                | 91.8              | 132               |  |                           |                   |                   |                   |
| Dec 2019          | 17/01/2020         | 30/01/2020          | 0                            | 5                         | 66                | 103.2             | 154               |  |                           |                   |                   |                   |
| Jan 2020          | 19/02/2020         | 27/02/2020          | 0                            | 5                         | 38                | 75.6              | 110               |  |                           |                   |                   |                   |
| Feb 2020          | 26/03/2020         | 26/03/2020          | 0                            | 5                         | 47                | 59.8              | 86                |  |                           |                   |                   |                   |
| Mar 2020          | 20/04/2020         | 29/04/2020          | 0                            | 5                         | 30                | 50.8              | 104               |  |                           |                   |                   |                   |
| Apr 2020          | 19/05/2020         | 20/05/2020          | 0                            | 5                         | 23                | 52.8              | 118               |  |                           |                   |                   |                   |
| May 2020          | 19/06/2020         | 24/06/2020          | 0                            | 5                         | 19                | 35.2              | 50                |  |                           |                   |                   |                   |
| Jun 2020          | 14/07/2020         | 23/07/2020          | 0                            | 5                         | 21                | 30.2              | 50                |  |                           |                   |                   |                   |
| Jul 2020          | 17/08/2020         | 27/08/2020          | 0                            | 6                         | 12                | 29.5              | 41                |  |                           |                   |                   |                   |
| Aug 2020          | 14/09/2020         | 17/09/2020          | 0                            | 5                         | 31                | 48.8              | 80                |  |                           |                   |                   |                   |
| Sep 2020          | 16/10/2020         | 23/10/2020          | 0                            | 5                         | 31                | 50.0              | 72                |  |                           |                   |                   |                   |
| Oct 2020          | 16/11/2020         | 04/12/2020          | 0                            | 5                         | 19                | 48.4              | 66                |  |                           |                   |                   |                   |
| Nov 2020          | 16/12/2020         | 17/12/2020          | 0                            | 5                         | 18                | 41.6              | 62                |  |                           |                   |                   |                   |
| Dec 2020          | 15/01/2021         | 21/01/2021          | 0                            | 5                         | 18                | 38.6              | 57                |  |                           |                   |                   |                   |
| Jan 2021          | 11/02/2021         | 17/02/2021          | 0                            | 5                         | 23                | 41.4              | 82                |  |                           |                   |                   |                   |
| Feb 2021          | 15/03/2021         | 23/03/2021          | 0                            | 5                         | 36                | 44.5              | 54                |  |                           |                   |                   |                   |
| Mar 2021          | 05/05/2021         | 13/05/2021          | 0                            | 5                         | 21                | 32.5              | 39                |  |                           |                   |                   |                   |
| Apr 2021          | 17/05/2021         | 27/05/2021          | 0                            | 5                         | 24                | 48.8              | 61                |  |                           |                   |                   |                   |



EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER**

| EPA ID Number     |                    |                     | N/A                          |   |                   |                   |                   | N/A  |                           |                   |                   |                   |  |
|-------------------|--------------------|---------------------|------------------------------|---|-------------------|-------------------|-------------------|--|---------------------------|-------------------|-------------------|-------------------|--|
| PWCS ID           |                    |                     | HVAS-K2                      |   |                   |                   |                   | HVAS-K4                                    |                           |                   |                   |                   |  |
| Location          |                    |                     | Fern Bay                     |   |                   |                   |                   | Fern Bay                                   |                           |                   |                   |                   |  |
| Analyte/Pollutant |                    |                     | Total Suspended Particulates |   |                   |                   |                   | Total Suspended Particulates – Directional |                           |                   |                   |                   |  |
| Unit of Measure   |                    |                     | --                           | --  | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> | --   | --                        | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> |  |
| Sample Period     | Date Data Obtained | Date Data Published | No. Measurements Required    | No. Measurements Recorded                     | Min Value         | Mean Value        | Max Value         | No. Measurements Required                  | No. Measurements Recorded | Min Value         | Mean Value        | Max Value         |  |
| May 2021          | 17/06/2021         | 01/07/2021          | 0                            | 5   | 24                | 32.2              | 41                |  |                           |                   |                   |                   |  |
| Jun 2021          | 14/07/2021         | 22/07/2021          | 0                            | 5   | 19                | 25.8              | 34                |  |                           |                   |                   |                   |  |
| Jul 2021          | 13/08/2021         | 26/08/2021          | 0                            | 5   | 10                | 24.8              | 34                |  |                           |                   |                   |                   |  |
| Aug 2021          | 15/09/2021         | 23/09/2021          | 0                            | 6   | 17                | 51.7              | 87                |  |                           |                   |                   |                   |  |
| Sep 2021          | 14/10/2021         | 21/10/2021          | 0                            | 5   | 17                | 48.4              | 88                |  |                           |                   |                   |                   |  |
| Oct 2021          | 15/11/2021         | 25/11/2021          | 0                            | 5   | 31                | 51.2              | 67                |  |                           |                   |                   |                   |  |
| Nov 2021          | 20/12/2021         | 30/12/2021          | 0                            | 5   | 26                | 35.8              | 48                |  |                           |                   |                   |                   |  |
| Dec 2021          | 17/01/2022         | 20/01/2022          | 0                            | 3   | 31                | 38.3              | 55                |  |                           |                   |                   |                   |  |
| Jan 2022          | 15/02/2022         | 22/02/2022          | 0                            | 7   | 17                | 24.4              | 30                |  |                           |                   |                   |                   |  |
| Feb 2022          | 18/03/2022         | 31/4/2022           | 0                            | 5   | 15                | 21                | 28                |  |                           |                   |                   |                   |  |
| Mar 2022          | 24/04/2022         |                     | 0                            | No Samples due to vandalism of sample station |                   |                   |                   |  |                           |                   |                   |                   |  |

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

Monitoring Frequency for overflow water quality monitoring is monthly during discharge.

**Note:** mg/L refers to ‘milligrams per litre’

| EPA ID Number     |                    |                     | 16                              |    |                        | 17                              |    |                        | 18                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|----|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | K4 Lagoon                       |    |                        | K5 Lagoon                       |    |                        | K6 Lagoon                       |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal Wharf   |    |                        | Kooragang Coal Terminal Wharf   |    |                        | Kooragang Coal Terminal Wharf   |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | -- | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |    |                        |                                 |    |                        |
| Jan 2018          | --                 | 22/2/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2018          | --                 | 20/3/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2018          | --                 | 19/4/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2018          | --                 | 18/5/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| May 2018          | --                 | 22/6/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2018          | --                 | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2018          | --                 | 21/8/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2018          | --                 | 18/9/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2018          | --                 | 22/10/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2018          | --                 | 26/11/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2018          | --                 | 19/12/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2018          | --                 | 12/02/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2019          | --                 | 20/2/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2019          | --                 | 26/3/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2019          | --                 | 16/4/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2019          | --                 | 14/05/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| May 2019          | --                 | 18/06/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2019          | --                 | 17/07/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2019          | --                 | 15/08/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2019          | --                 | 19/09/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2019          | --                 | 18/10/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2019          | --                 | 26/11/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2019          | --                 | 20/12/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2019          | --                 | 30/01/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 16                              |    |                        | 17                              |      |                        | 18                              |      |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|------|------------------------|
| PWCS ID           |                    |                     | K4 Lagoon                       |    |                        | K5 Lagoon                       |      |                        | K6 Lagoon                       |      |                        |
| Location          |                    |                     | Kooragang Coal Terminal Wharf   |    |                        | Kooragang Coal Terminal Wharf   |      |                        | Kooragang Coal Terminal Wharf   |      |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH   | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | --   | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |      |                        |
| Jan 2020          | --                 | 27/02/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Feb 2020          | --                 | 26/03/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Mar 2020          | --                 | 29/04/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Apr 2020          | --                 | 20/05/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| May 2020          | --                 | 24/06/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Jun 2020          | --                 | 23/07/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| 26 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | 8                               | 7.73 | 998                    | 6                               | 7.36 | 532                    |
| 27 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | 8                               | 7.80 | 711                    | 5                               | 7.33 | 602                    |
| Aug 2020          | --                 | 17/09/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Sep 2020          | --                 | 23/10/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Oct 2020          | --                 | 04/12/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Nov 2020          | --                 | 17/12/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Dec 2020          | --                 | 21/01/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Jan 2021          | --                 | 17/02/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Feb 2021          | --                 | 23/03/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Mar 2021          | --                 | 05/05/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Apr 2021          | --                 | 17/05/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| May 2021          | --                 | 01/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Jun 2021          | --                 | 22/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Jul 2021          | --                 | 26/08/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Aug 2021          | --                 | 23/09/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Sep 2021          | --                 | 21/10/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Oct 2021          | --                 | 25/11/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Nov 2021          | --                 | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Dec 2021          | --                 | 20/01/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Jan 2022          | --                 | 22/02/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |
| Feb 2022          | --                 |                     | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 19                              |    |                        | 20                              |      |                        | 21                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | K7 Lagoon                       |    |                        | Detention Pond B                |      |                        | Settling Lagoon I               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal Wharf   |    |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |    |                        |
| Jan 2018          | --                 | 22/2/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2018          | --                 | 20/3/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2018          | --                 | 19/4/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2018          | --                 | 18/5/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2018          | --                 | 22/6/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 19 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.71 | 33                     | No Discharge/Overflow to Waters |    |                        |
| 20 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.84 | 90                     | No Discharge/Overflow to Waters |    |                        |
| 21 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.78 | 95                     | No Discharge/Overflow to Waters |    |                        |
| 22 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.46 | 74                     | No Discharge/Overflow to Waters |    |                        |
| 23 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.73 | 16                     | No Discharge/Overflow to Waters |    |                        |
| Jul 2018          | --                 | 21/8/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2018          | --                 | 18/9/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2018          | --                 | 22/10/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2018          | --                 | 26/11/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2018          | --                 | 19/12/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2018          | --                 | 12/02/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2019          | --                 | 20/2/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2019          | --                 | 26/3/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2019          | --                 | 16/4/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2019          | --                 | 14/05/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2019          | --                 | 18/06/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2019          | --                 | 17/07/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2019          | --                 | 15/08/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2019          | --                 | 19/09/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2019          | --                 | 18/10/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2019          | --                 | 26/11/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2019          | --                 | 20/12/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2019          | --                 | 30/01/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2020          | --                 | 27/02/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2020          | --                 | 26/03/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 19                              |      |                        | 20                              |      |                        | 21                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|------|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | K7 Lagoon                       |      |                        | Detention Pond B                |      |                        | Settling Lagoon I               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal Wharf   |      |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH   | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | --   | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |      |                        |                                 |      |                        |                                 |    |                        |
| Mar 2020          | --                 | 29/04/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2020          | --                 | 20/05/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2020          | --                 | 24/06/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2020          | --                 | 23/07/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 26 Jul 2020       | 17/08/2020         | 27/08/2020          | 6                               | 7.35 | 996                    | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 27 Jul 2020       | 17/08/2020         | 27/08/2020          | 9                               | 7.44 | 588                    | 9                               | 7.73 | 339                    | No Discharge/Overflow to Waters |    |                        |
| 28 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |      |                        | 16                              | 7.75 | 176                    | No Discharge/Overflow to Waters |    |                        |
| 29 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |      |                        | -                               | 7.76 | 166                    | No Discharge/Overflow to Waters |    |                        |
| 30 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |      |                        | 6                               | 7.63 | 69                     | No Discharge/Overflow to Waters |    |                        |
| 31 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 8.05 | 87                     | No Discharge/Overflow to Waters |    |                        |
| Aug 2020          | --                 | 17/09/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2020          | --                 | 23/10/2020          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 30 Oct 2020       | 16/11/2020         | 04/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.83 | 291                    | No Discharge/Overflow to Waters |    |                        |
| 31 Oct 2020       | 16/11/2020         | 04/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.74 | 304                    | No Discharge/Overflow to Waters |    |                        |
| 1 Nov 2020        | 16/11/2020         | 04/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.72 | 352                    | No Discharge/Overflow to Waters |    |                        |
| 2 Nov 2020        | 16/11/2020         | 04/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.75 | 372                    | No Discharge/Overflow to Waters |    |                        |
| 3 Nov 2020        | 16/11/2020         | 04/12/2020          | No Discharge/Overflow to Waters |      |                        | 7                               | 7.63 | 342                    | No Discharge/Overflow to Waters |    |                        |
| 6 Nov 2020        | 16/12/2020         | 17/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.55 | 324                    | No Discharge/Overflow to Waters |    |                        |
| 7 Nov 2020        | 16/12/2020         | 17/12/2020          | No Discharge/Overflow to Waters |      |                        | <5                              | 7.87 | 344                    | No Discharge/Overflow to Waters |    |                        |
| Dec 2020          | --                 | 21/01/2021          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2021          | --                 | 17/02/2021          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2021          | --                 | 23/03/2021          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 19 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.66 | 115                    | No Discharge/Overflow to Waters |    |                        |
| 20 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.72 | 119                    | No Discharge/Overflow to Waters |    |                        |
| 21 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.5  | 99                     | No Discharge/Overflow to Waters |    |                        |
| 22 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.60 | 92                     | No Discharge/Overflow to Waters |    |                        |
| 23 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.59 | 59                     | No Discharge/Overflow to Waters |    |                        |
| 24 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |      |                        | <2                              | 7.16 | 280                    | No Discharge/Overflow to Waters |    |                        |
| Apr 2021          | --                 | 27/05/2021          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2021          | --                 | 01/07/2021          | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 19                              |    |                        | 20                              |      |                        | 21                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | K7 Lagoon                       |    |                        | Detention Pond B                |      |                        | Settling Lagoon I               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal Wharf   |    |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |    |                        |
| Jun 2021          | --                 | 22/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2021          | --                 | 26/08/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2021          | --                 | 23/09/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2021          | --                 | 21/10/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2021          | --                 | 25/11/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 26 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.70 | 32                     | No Discharge/Overflow to Waters |    |                        |
| 27 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.46 | 56                     | No Discharge/Overflow to Waters |    |                        |
| 28 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.75 | 58                     | No Discharge/Overflow to Waters |    |                        |
| 29 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.94 | 28                     | No Discharge/Overflow to Waters |    |                        |
| Dec 2021          | --                 | 20/01/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2022          | --                 | 22/02/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2022          | --                 |                     | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 22                              |    |                        | 23                              |      |                        | 24                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | Clarified Lagoon 1              |    |                        | Detention Pond D                |      |                        | Settling Lagoon 2               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal         |    |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |    |                        |
| Jan 2018          | --                 | 22/2/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2018          | --                 | 20/3/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2018          | --                 | 19/4/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2018          | --                 | 18/5/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2018          | --                 | 22/6/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 19 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 8.08 | 17                     | No Discharge/Overflow to Waters |    |                        |
| 20 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 8.08 | 94                     | No Discharge/Overflow to Waters |    |                        |
| 21 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 8.03 | 39                     | No Discharge/Overflow to Waters |    |                        |
| 22 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 7.99 | 23                     | No Discharge/Overflow to Waters |    |                        |
| 23 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 8.07 | <5                     | No Discharge/Overflow to Waters |    |                        |
| 24 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | 2                               | 8.09 | <5                     | No Discharge/Overflow to Waters |    |                        |
| 25 Jun 2018       | 16/7/2018          | 23/7/2018           | No Discharge/Overflow to Waters |    |                        | <2                              | 8.11 | 8                      | No Discharge/Overflow to Waters |    |                        |
| Jul 2018          | --                 | 21/8/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2018          | --                 | 18/9/2018           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2018          | --                 | 22/10/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2018          | --                 | 26/11/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2018          | --                 | 19/12/2018          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2018          | --                 | 12/02/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2019          | --                 | 20/02/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2019          | --                 | 26/3/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2019          | --                 | 16/4/2019           | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2019          | --                 | 14/05/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2019          | --                 | 18/06/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2019          | --                 | 17/07/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2019          | --                 | 15/08/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Aug 2019          | --                 | 19/09/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2019          | --                 | 18/10/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2019          | --                 | 26/11/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2019          | --                 | 20/12/2019          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2019          | --                 | 30/01/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 22                              |    |                        | 23                              |      |                        | 24                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | Clarified Lagoon 1              |    |                        | Detention Pond D                |      |                        | Settling Lagoon 2               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal         |    |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |    |                        |
| Jan 2020          | --                 | 27/02/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2020          | --                 | 26/03/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2020          | --                 | 29/04/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Apr 2020          | --                 | 20/05/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2020          | --                 | 24/06/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2020          | --                 | 23/07/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 28 Jul 2020       | 17/08/2020         | 28/08/2020          | No Discharge/Overflow to Waters |    |                        | 7                               | 7.60 | 566                    | No Discharge/Overflow to Waters |    |                        |
| 29 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.07 | 325                    | No Discharge/Overflow to Waters |    |                        |
| 30 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.06 | 106                    | No Discharge/Overflow to Waters |    |                        |
| 31 Jul 2020       | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.74 | 86                     | No Discharge/Overflow to Waters |    |                        |
| 1 Aug 2020        | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.07 | 38                     | No Discharge/Overflow to Waters |    |                        |
| 2 Aug 2020        | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.12 | 32                     | No Discharge/Overflow to Waters |    |                        |
| 3 Aug 2020        | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.14 | 23                     | No Discharge/Overflow to Waters |    |                        |
| 4 Aug 2020        | 17/08/2020         | 27/08/2020          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.18 | 34                     | No Discharge/Overflow to Waters |    |                        |
| Sep 2020          | --                 | 23/10/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2020          | --                 | 04/12/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Nov 2020          | --                 | 17/12/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Dec 2020          | --                 | 21/01/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2021          | --                 | 17/02/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2021          | --                 | 23/03/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| 20 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.02 | 197                    | No Discharge/Overflow to Waters |    |                        |
| 21 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.98 | 134                    | No Discharge/Overflow to Waters |    |                        |
| 22 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.92 | 92                     | No Discharge/Overflow to Waters |    |                        |
| 23 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.97 | 72                     | No Discharge/Overflow to Waters |    |                        |
| Apr 2021          | --                 | 27/05/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| May 2021          | --                 | 01/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jun 2021          | --                 | 22/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jul 2021          | --                 | 23/09/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Sep 2021          | --                 | 21/10/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Oct 2021          | --                 | 25/11/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |



EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

| EPA ID Number     |                    |                     | 22                              |    |                        | 23                              |      |                        | 24                              |    |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|---------------------------------|----|------------------------|
| PWCS ID           |                    |                     | Clarified Lagoon 1              |    |                        | Detention Pond D                |      |                        | Settling Lagoon 2               |    |                        |
| Location          |                    |                     | Kooragang Coal Terminal         |    |                        | Kooragang Coal Terminal         |      |                        | Kooragang Coal Terminal         |    |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   | mg/L                            | pH | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | --   | --                     | --                              | -- | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |      |                        |                                 |    |                        |
| 26 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.10 | 137                    | No Discharge/Overflow to Waters |    |                        |
| 27 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.78 | 135                    | No Discharge/Overflow to Waters |    |                        |
| 28 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 7.88 | 112                    | No Discharge/Overflow to Waters |    |                        |
| 29 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | <5                              | 8.16 | 80                     | No Discharge/Overflow to Waters |    |                        |
| Dec 2021          | --                 | 20/01/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Jan 2022          | --                 | 22/02/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Feb 2022          | --                 | 31/03/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |
| Mar 2022          | --                 |                     | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        | No Discharge/Overflow to Waters |    |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

| EPA ID Number     |                    |                     | 25                              |    |                        | 26                              |    |                        | 27                              |      |                        |
|-------------------|--------------------|---------------------|---------------------------------|----|------------------------|---------------------------------|----|------------------------|---------------------------------|------|------------------------|
| PWCS ID           |                    |                     | Clarified Lagoon 2              |    |                        | EER23 Pump Well                 |    |                        | Detention Pond 1                |      |                        |
| Location          |                    |                     | Kooragang Coal Terminal         |    |                        | Kooragang Coal Terminal         |    |                        | Kooragang Coal Terminal         |      |                        |
| Analyte/Pollutant |                    |                     | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH | Total Suspended Solids | Oil and Grease                  | pH   | Total Suspended Solids |
| Unit of Measure   |                    |                     | mg/L                            | pH | mg/L                   | mg/L                            | pH | mg/L                   | mg/L                            | pH   | mg/L                   |
| EPL Limit         |                    |                     | --                              | -- | --                     | --                              | -- | --                     | --                              | --   | --                     |
| Sample Date       | Date Data Obtained | Date Data Published |                                 |    |                        |                                 |    |                        |                                 |      |                        |
| Nov 2020          | --                 | 17/12/2020          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Dec 2020          | --                 | 21/01/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Jan 2021          | --                 | 17/02/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Feb 2021          | --                 | 23/03/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| 21 Mar 2021       | 05/05/2021         | 13/05/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | <5                              | 7.68 | 55                     |
| Apr 2021          | --                 | 27/05/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| May 2021          | --                 | 01/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Jun 2021          | --                 | 22/07/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Jul 2021          | --                 | 26/08/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Aug 2021          | --                 | 23/09/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Sep 2021          | --                 | 21/10/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Oct 2021          | --                 | 25/11/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| 12 Nov 2021       | 20/12/2021         | 30/12/2021          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | <5                              | 7.55 | <5                     |
| Dec 2021          | --                 | 20/01/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Jan 2022          | --                 | 22/02/2022          | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |
| Feb 2022          | --                 |                     | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |    |                        | No Discharge/Overflow to Waters |      |                        |

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

| EPA ID Number     |                    | 28                      |                                 |                        |
|-------------------|--------------------|-------------------------|---------------------------------|------------------------|
| PWCS ID           |                    | Detention Pond 2        |                                 |                        |
| Location          |                    | Kooragang Coal Terminal |                                 |                        |
| Analyte/Pollutant |                    | Oil and Grease          | pH                              | Total Suspended Solids |
| Unit of Measure   |                    | mg/L                    | pH                              | mg/L                   |
| EPL Limit         |                    | --                      | --                              | --                     |
| Sample Date       | Date Data Obtained | Date Data Published     |                                 |                        |
| Nov 2020          | --                 | 17/12/2020              | No Discharge/Overflow to Waters |                        |
| Dec 2020          | --                 | 21/01/2021              | No Discharge/Overflow to Waters |                        |
| Jan 2021          | --                 | 17/02/2021              | No Discharge/Overflow to Waters |                        |
| Feb 2021          | --                 | 23/03/2021              | No Discharge/Overflow to Waters |                        |
| Mar 2021          | --                 | 13/05/2021              | No Discharge/Overflow to Waters |                        |
| Apr 2021          | --                 | 27/05/2021              | No Discharge/Overflow to Waters |                        |
| May 2021          | --                 | 01/07/2021              | No Discharge/Overflow to Waters |                        |
| Jun 2021          | --                 | 22/07/2021              | No Discharge/Overflow to Waters |                        |
| Jul 2021          | --                 | 26/08/2021              | No Discharge/Overflow to Waters |                        |
| Aug 2021          | --                 | 23/09/2021              | No Discharge/Overflow to Waters |                        |
| Sep 2021          | --                 | 21/10/2021              | No Discharge/Overflow to Waters |                        |
| Oct 2021          | --                 | 25/11/2021              | No Discharge/Overflow to Waters |                        |
| Nov 2021          | --                 | 30/12/2021              | No Discharge/Overflow to Waters |                        |
| Dec 2021          | --                 | 20/01/2022              | No Discharge/Overflow to Waters |                        |
| Jan 2022          | --                 | 22/02/2022              | No Discharge/Overflow to Waters |                        |
| Feb 2022          | --                 |                         | No Discharge/Overflow to Waters |                        |
| Mar 2022          | --                 | 31/04/2022              | No Discharge/Overflow to Waters |                        |

**DATA CORRECTION LOG**

DATA CORRECTION LOG

| EPA ID No. | Analyte/ Pollutant | Sample Date | Original Data | Corrected Data | Date Corrected | Date Originally Published | Reason for Correction |
|------------|--------------------|-------------|---------------|----------------|----------------|---------------------------|-----------------------|
|            |                    |             |               |                |                |                           |                       |
|            |                    |             |               |                |                |                           |                       |
|            |                    |             |               |                |                |                           |                       |
|            |                    |             |               |                |                |                           |                       |
|            |                    |             |               |                |                |                           |                       |

**SITE MAP AND MONITORING LOCATIONS**

SITE MAP AND MONITORING LOCATIONS



**Figure 1:** Environment Protection Licence 1552 Monitoring Locations