



PORT WARATAH COAL SERVICES
EPL MONITORING DATA
FINES DISPOSAL
FACILITY



PORT WARATAH
COAL SERVICES

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PREMISES DETAILS

| | |
|--|--------------------------------------|
| Environment Protection Licence Number: | 5022 |
| Licensee's Name: | Port Waratah Coal Services Limited |
| Premises Name: | Fines Disposal Facility |
| Premises Address: | Curlew Street, Kooragang NSW 2304 |
| Link to POEO Public Register: | Click Here |
| Link to EPL 5022 on POEO Public Register: | Click Here |

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – WATER QUALITY MONITORING

DISCHARGE TO WATERS – WATER QUALITY MONITORING

Monitoring frequency for the below parameters is monthly

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

| EPA ID Number | | | 1 | | | | | | | 36 | | | | | | |
|-------------------------|--------------------|---------------------|-------------------------|------------------------|-----------|--------|--------|----------------------------------|---------|-------------------------|------------------------|-----------|--------|--------|----------------------------------|---------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | | | | | | WW-K3 (Leachate Drain) | | | | | | |
| Location | | | Fines Disposal Facility | | | | | | | Fines Disposal Facility | | | | | | |
| Analyte/Pollutant | | | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols |
| Unit of Measure | | | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| EPL Concentration Limit | | | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sample Date | Date Data Obtained | Date Data Published | | | | | | | | | | | | | | |
| 27 Jan 2017 | 9/2/2017 | 16/2/2017 | 7.70 | <5 | 1.28 | <0.001 | 0.020 | <0.0005 | <0.05 | 7.69 | <5 | 1.18 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Feb 2017 | 14/3/2017 | 16/3/2017 | 7.73 | <5 | 1.19 | <0.001 | 0.023 | <0.0005 | <0.05 | 7.74 | <5 | 1.10 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 30 Mar 2017 | 13/4/2017 | 21/4/2017 | 7.71 | 24 | 0.99 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.64 | 4 | 1.46 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Apr 2017 | 15/5/2017 | 19/5/2017 | 7.67 | 12 | 1.45 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.68 | <5 | 1.48 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 18 May 2017 | 9/6/2017 | 19/6/2017 | 8.30 | 12 | 0.002 | <0.001 | 0.040 | <0.0017 | <0.05 | 7.65 | 74 | 1.60 | <0.001 | 0.036 | <0.0021 | <0.05 |
| 29 May 2017 | 14/6/2017 | 19/5/2017 | 7.67 | 10 | 1.45 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.65 | <5 | 1.45 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Jun 2017 | 19/7/2017 | 02/8/2017 | 7.58 | 18 | 1.46 | <0.001 | 0.005 | 0.0022 | <0.05 | 7.54 | 6 | 1.50 | <0.001 | 0.007 | 0.0015 | <0.05 |
| 28 Jul 2017 | 11/8/2017 | 14/8/2017 | 7.62 | 5 | 1.44 | <0.001 | 0.006 | 0.0021 | <0.05 | 7.67 | <5 | 1.34 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Aug 2017 | 13/9/2017 | 20/9/2017 | 7.67 | 11 | 1.31 | <0.001 | 0.006 | 0.0019 | <0.05 | 7.65 | <5 | 1.32 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Sep 2017 | 13/10/2017 | 19/10/2017 | 7.62 | 9 | 1.54 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.62 | 8 | 1.58 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Oct 2017 | 15/11/2017 | 16/11/2017 | 7.69 | 16 | 1.40 | <0.001 | 0.005 | <0.0005 | <0.05 | 7.65 | 6 | 1.36 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Nov 2017 | 13/12/2017 | 19/12/2017 | 7.63 | <5 | 1.38 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.72 | 12 | 1.32 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Dec 2017 | 12/1/2018 | 22/1/2018 | 7.76 | 5 | 1.34 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.77 | <5 | 1.27 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Jan 2018 | 12/2/2018 | 22/2/2018 | 7.68 | <5 | 1.26 | <0.001 | 0.012 | <0.0005 | <0.05 | 7.73 | <5 | 1.18 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Feb 2018 | 15/3/2018 | 20/3/2018 | 7.66 | <5 | 0.87 | <0.001 | 0.006 | <0.0005 | <0.05 | 7.65 | <5 | 0.84 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Mar 2018 | 13/4/2018 | 19/4/2018 | 7.61 | 10 | 1.10 | <0.001 | 0.006 | <0.0005 | <0.05 | 7.63 | 23 | 1.21 | <0.001 | 0.006 | <0.0005 | <0.05 |
| 27 Apr 2018 | 15/5/2018 | 18/5/2018 | 7.66 | 11 | 1.27 | <0.001 | 0.006 | <0.0005 | <0.05 | 7.57 | 6 | 1.22 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 May 2018 | 15/6/2018 | 22/6/2018 | 7.66 | 13 | 1.31 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.66 | 8 | 1.28 | <0.001 | 0.006 | <0.0005 | <0.05 |
| 30 May 2018 | 15/6/2018 | 22/6/2018 | 7.9 | <5 | 0.071 | <0.001 | 0.007 | <0.0017 | <0.05 | 7.7 | 22 | 1.30 | <0.001 | 0.008 | 0.0002 | <0.05 |
| 28 Jun 2018 | 16/7/2018 | 23/7/2018 | 7.51 | 13 | 1.51 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.46 | 19 | 1.51 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 30 Jul 2018 | 14/8/2018 | 21/8/2018 | 7.58 | 17 | 1.35 | <0.001 | 0.008 | 0.0018 | <0.05 | 7.54 | 5 | 1.33 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Aug 2018 | 14/9/2018 | 18/9/2018 | 7.60 | 7 | 1.48 | <0.001 | 0.007 | <0.0005 | <0.05 | 7.64 | 6 | 1.43 | <0.001 | 0.010 | <0.0005 | <0.05 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – WATER QUALITY MONITORING

| EPA ID Number | | | 1 | | | | | | | 36 | | | | | | |
|-------------------------|--------------------|---------------------|-------------------------|------------------------|-----------|--------|--------|----------------------------------|---------|-------------------------|------------------------|-----------|--------|--------|----------------------------------|---------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | | | | | | WW-K3 (Leachate Drain) | | | | | | |
| Location | | | Fines Disposal Facility | | | | | | | Fines Disposal Facility | | | | | | |
| Analyte/Pollutant | | | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols |
| Unit of Measure | | | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| EPL Concentration Limit | | | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sample Date | Date Data Obtained | Date Data Published | | | | | | | | | | | | | | |
| 27 Sep 2018 | 12/10/2018 | 22/10/2018 | 7.69 | 11 | 1.53 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.70 | 7 | 1.50 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Oct 2018 | 12/11/2018 | 26/11/2018 | 7.70 | 11 | 1.47 | <0.001 | 0.007 | <0.0005 | <0.05 | 7.68 | 7 | 1.52 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Nov 2018 | 13/12/2018 | 19/12/2018 | 7.60 | 23 | 1.36 | <0.001 | 0.011 | <0.0005 | <0.05 | 7.7 | 22 | 1.36 | <0.001 | 0.007 | <0.0005 | <0.05 |
| 28 Dec 2018 | 31/12/2018 | 12/02/2019 | 7.66 | 7 | 1.37 | <0.001 | 0.011 | <0.0005 | <0.05 | 7.64 | 11 | 1.37 | <0.001 | 0.011 | <0.0005 | <0.05 |
| 29 Jan 2019 | 15/2/2019 | 20/2/2019 | 7.60 | <5 | 1.33 | <0.001 | 0.010 | <0.0005 | <0.05 | 7.61 | <5 | 1.31 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 27 Feb 2019 | 14/03/2019 | 26/03/2019 | 7.63 | <5 | 1.29 | <0.001 | 0.006 | <0.0005 | <0.05 | 7.71 | 9 | 1.23 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 28 Mar 2019 | 12/04/2019 | 16/04/2019 | 7.65 | <5 | 1.06 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.67 | 13 | 1.09 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Apr 2019 | 13/05/2019 | 14/05/2019 | 7.70 | 11 | 1.13 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.76 | <5 | 1.09 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 May 2019 | 13/06/2019 | 18/06/2019 | 7.56 | <5 | 1.24 | <0.001 | 0.011 | <0.0005 | <0.05 | 7.66 | 6 | 1.19 | <0.001 | 0.009 | <0.0005 | <0.05 |
| 27 Jun 2019 | 12/07/2019 | 17/07/2019 | 7.65 | <5 | 1.04 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.63 | <5 | 1.06 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Jul 2019 | 13/08/2019 | 15/08/2019 | 7.68 | 13 | 1.72 | <0.001 | 0.029 | <0.0005 | <0.05 | 7.67 | 8 | 1.69 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 29 Aug 2019 | 13/09/2019 | 19/9/2019 | 7.51 | 6 | 1.41 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.59 | 6 | 1.37 | <0.001 | 0.009 | <0.0005 | <0.05 |
| 27 Sep 2019 | 16/10/2019 | 18/10/2019 | 7.53 | <5 | 1.36 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.53 | <5 | 1.42 | <0.001 | 0.009 | <0.0005 | <0.05 |
| 30 Oct 2019 | 26/11/2019 | 26/11/2019 | 7.46 | <5 | 1.55 | <0.001 | 0.040 | <0.0005 | <0.001 | 7.56 | <5 | 1.46 | <0.001 | 0.006 | <0.0005 | <0.001 |
| 28 Nov 2019 | 17/12/2019 | 20/12/2019 | 7.50 | 7 | 1.52 | 0.002 | 0.152 | <0.0005 | <0.001 | 7.67 | <5 | 1.32 | <0.001 | <0.005 | <0.0005 | <0.001 |
| 30 Dec 2019 | 17/01/2020 | 30/01/2020 | 7.71 | 7 | 1.34 | <0.001 | <0.005 | <0.0005 | <0.001 | 7.48 | 93 | 1.47 | <0.001 | 0.061 | <0.0005 | <0.001 |
| 30 Jan 2020 | 19/02/2020 | 27/02/2020 | 7.52 | 23 | 1.52 | <0.001 | 0.040 | <0.0005 | <0.05 | 7.63 | 17 | 1.44 | <0.001 | 0.006 | <0.0005 | <0.05 |
| 27 Feb 2020 | 26/03/2020 | 26/03/2020 | 7.73 | 8 | 1.35 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.53 | 702 | 1.71 | 0.004 | 0.323 | <0.0005 | <0.05 |
| 31 Mar 2020 | 20/04/2020 | 29/04/2020 | 7.60 | 8 | 1.24 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.42 | 31 | 1.54 | 0.001 | 0.102 | <0.0005 | <0.05 |
| 30 Apr 2020 | 19/05/2020 | 20/05/2020 | 7.55 | 26 | 1.37 | 0.004 | 1.090 | <0.0005 | <0.002 | 7.53 | <5 | 1.35 | <0.001 | 0.013 | <0.0005 | <0.002 |
| 28 May 2020 | 19/06/2020 | 24/06/2020 | 7.57 | <5 | 1.17 | <0.001 | <0.005 | <0.0005 | <0.05 | 7.51 | 9 | 1.24 | <0.001 | 0.027 | <0.0005 | <0.05 |
| 29 Jun 2020 | 14/07/2020 | 23/07/2020 | 7.47 | 8 | 1.37 | <0.001 | 0.012 | <0.0005 | <0.05 | 7.54 | 79 | 1.60 | <0.001 | 0.010 | <0.0005 | <0.05 |
| 30 Jul 2020 | 17/08/2020 | 27/08/2020 | 8.54 | 10 | 0.32 | <0.001 | 0.055 | <0.0005 | <0.05 | 7.31 | 17 | 1.43 | <0.001 | 0.029 | <0.0005 | <0.05 |
| 31 Aug 2020 | 14/09/2020 | 17/09/2020 | 7.38 | <5 | 1.70 | <0.001 | 0.048 | 1.4 | <0.05 | 7.42 | <5 | 1.69 | <0.001 | 0.008 | <0.0005 | <0.05 |
| 30 Sep 2020 | 16/10/2020 | 23/10/2020 | 7.43 | 27 | 1.63 | <0.001 | 0.017 | <0.0005 | <0.05 | 7.48 | <5 | 1.58 | <0.001 | 0.009 | <0.0005 | <0.05 |
| 29 Oct 2020 | 16/11/2020 | 04/12/2020 | 7.44 | 8 | 1.70 | 0.01 | 0.319 | <0.0005 | <0.05 | 7.44 | 210 | 1.35 | <0.001 | <0.005 | <0.0005 | <0.05 |
| 30 Nov 2020 | 16/12/2020 | 17/12/2020 | 7.43 | 6 | 1.52 | <0.001 | 0.106 | <0.0005 | <0.05 | 7.49 | 15 | 1.38 | <0.001 | 0.016 | <0.0005 | <0.05 |
| 30 Dec 2020 | 15/01/2021 | 21/01/2021 | 7.46 | 16 | 1.44 | <0.001 | 0.033 | <0.0005 | <0.05 | 7.55 | 6 | 1.40 | <0.001 | <0.005 | <0.0005 | <0.05 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – WATER QUALITY MONITORING

| EPA ID Number | | | 1 | | | | | | | 36 | | | | | | |
|-------------------------|--------------------|---------------------|-------------------------|------------------------|-----------|--------|-------|----------------------------------|---------|-------------------------|------------------------|-----------|--------|--------|----------------------------------|---------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | | | | | | WW-K3 (Leachate Drain) | | | | | | |
| Location | | | Fines Disposal Facility | | | | | | | Fines Disposal Facility | | | | | | |
| Analyte/Pollutant | | | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols | pH | Total Suspended Solids | Manganese | Lead | Zinc | Polycyclic Aromatic Hydrocarbons | Phenols |
| Unit of Measure | | | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pH | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| EPL Concentration Limit | | | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sample Date | Date Data Obtained | Date Data Published | | | | | | | | | | | | | | |
| 28 Jan 2021 | 11/02/2021 | 17/02/2021 | 7.61 | 10 | 1.11 | <0.001 | 0.039 | <0.0005 | <0.05 | 7.71 | 6 | 1.06 | <0.001 | 0.010 | <0.0005 | <0.05 |
| 25 Feb 2021 | 15/03/2021 | 23/03/2021 | 7.43 | 6 | 1.39 | <0.001 | 0.007 | <0.0005 | <0.05 | 7.40 | 6 | 1.37 | <0.001 | 0.284 | <0.0005 | <0.05 |
| 31 Mar 2021 | 05/05/2021 | 13/05/2021 | 7.66 | 11 | 2.29 | <0.001 | 0.077 | <0.0005 | <0.05 | 7.43 | 13 | 1.01 | <0.001 | 0.222 | <0.0005 | <0.05 |
| 29 Apr 2021 | 17/05/2021 | 27/05/2021 | 8.04 | 12 | 0.33 | <0.001 | 0.007 | <0.0005 | <0.05 | 7.33 | 14 | 2.04 | <0.001 | 0.010 | <0.0005 | <0.05 |
| 31-May-2021 | 17/06/2021 | 01/07/2021 | 7.40 | 15 | 1.89 | <0.001 | 0.096 | 0.0018 | <0.05 | 7.45 | 7 | 1.84 | <0.001 | 0.007 | <0.0005 | <0.05 |
| 30-Jun-2021 | 14/07/2021 | 22/07/2021 | 7.38 | 41 | 1.61 | <0.001 | 0.078 | <0.0005 | <0.05 | 7.43 | 10 | 1.66 | <0.001 | <0.005 | <0.0005 | <0.05 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – DISCHARGE VOLUME

DISCHARGE TO WATERS – DISCHARGE VOLUME

Monitoring frequency is not specified in EPL 5022 for discharge volumes.

Note: kL refers to 'kilolitres', and kL/day refers to 'kilolitres per day'

| EPA ID Number | | | I | | |
|-------------------|--------------------|---------------------------|-------------------------|-------------|---------------------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | |
| Location | | | Fines Disposal Facility | | |
| Analyte/Pollutant | | | Total Volume Discharged | No. of Days | Ave Daily Discharge |
| Unit of Measure | | | kL | -- | kL/day |
| EPL Limit | | | -- | -- | 10,000 |
| Sample Date | Date Data Obtained | Date Data First Published | | | |
| 11 Jan 2017 | 9/2/2017 | 16/2/2017 | 4,709 | 14 | 336 |
| 23 Jan 2017 | 9/2/2017 | 16/2/2017 | 3,656 | 12 | 305 |
| 9 Feb 2017 | 14/3/2017 | 16/3/2017 | 4,855 | 17 | 286 |
| 23 Feb 2017 | 14/3/2017 | 16/3/2017 | 3,787 | 14 | 271 |
| 6 Mar 2017 | 13/4/2017 | 21/4/2017 | 4,541 | 11 | 413 |
| 29 Mar 2017 | 13/4/2017 | 21/4/2017 | 16,634 | 21 | 723 |
| 6 Apr 2017 | 15/5/2017 | 19/5/2017 | 9,750 | 8 | 1,219 |
| 20 Apr 2017 | 15/5/2017 | 19/5/2017 | 18,733 | 14 | 1,338 |
| 4 May 2017 | 14/6/2017 | 19/6/2017 | 14,058 | 14 | 1,004 |
| 17 May 2017 | 14/6/2017 | 19/6/2017 | 9,409 | 13 | 724 |
| 1 Jun 2017 | 19/7/2017 | 02/8/2017 | 8,640 | 15 | 576 |
| 15 Jun 2017 | 19/7/2017 | 02/8/2017 | 21,644 | 14 | 1,546 |
| 29 Jun 2017 | 19/7/2017 | 02/8/2017 | 24,399 | 14 | 1,743 |
| 14 Jul 2017 | 11/8/2017 | 14/8/2017 | 18,463 | 15 | 1,231 |
| 27 Jul 2017 | 11/8/2017 | 14/8/2017 | 13,391 | 13 | 1,030 |
| 10 Aug 2017 | 13/9/2017 | 20/9/2017 | 11,697 | 14 | 836 |
| 24 Aug 2017 | 13/9/2017 | 20/9/2017 | 9,959 | 14 | 711 |
| 7 Sep 2017 | 13/10/2017 | 19/10/2017 | 7,323 | 14 | 523 |
| 26 Sep 2017 | 13/10/2017 | 19/10/2017 | 9,231 | 19 | 486 |
| 5 Oct 2017 | 15/11/2017 | 16/11/2017 | 3,845 | 9 | 427 |
| 24 Oct 2017 | 15/11/2017 | 16/11/2017 | 7,523 | 19 | 396 |
| 7 Nov 2017 | 13/12/2017 | 19/12/2017 | 5,676 | 14 | 405 |
| 16 Nov 2017 | 13/12/2017 | 19/12/2017 | 4,997 | 9 | 555 |
| 29 Nov 2017 | 13/12/2017 | 19/12/2017 | 5,977 | 13 | 460 |
| 14 Dec 2017 | 12/1/2018 | 22/1/2018 | NR ^A | -- (15) | -- |
| 29 Dec 2017 | 12/1/2018 | 22/1/2018 | 13,630 | 30 | 454 |
| 12 Jan 2018 | 12/2/2018 | 22/2/2018 | 1,196 | 14 | 85 |
| 31 Jan 2018 | 12/2/2018 | 22/2/2018 | 5,068 | 19 | 267 |
| 7 Feb 2018 | 15/3/2018 | 20/3/2018 | 1,743 | 7 | 249 |
| 19 Feb 2018 | 15/3/2018 | 20/3/2018 | 2,887 | 12 | 241 |
| 7 Mar 2018 | 13/4/2018 | 19/4/2018 | 5,042 | 16 | 315 |
| 23 Mar 2018 | 13/4/2018 | 19/4/2018 | 7,024 | 16 | 439 |
| 4 Apr 2018 | 15/5/2018 | 18/5/2018 | NR ^B | -- (12) | -- |
| 19 Apr 2018 | 15/5/2018 | 18/5/2018 | NR ^B | -- (15) | -- |
| 30 Apr 2018 | 15/5/2018 | 18/5/2018 | 29,961 | 38 | 788 |
| 4 May 2018 | 15/6/2018 | 22/6/2018 | 2,409 | 4 | 602 |
| 18 May 2018 | 15/6/2018 | 22/6/2018 | 7,106 | 14 | 508 |
| 1 Jun 2018 | 16/7/2018 | 23/7/2018 | 5,847 | 14 | 418 |
| 18 Jun 2018 | 16/7/2018 | 23/7/2018 | 14,730 | 17 | 866 |
| 26 Jun 2018 | 16/7/2018 | 23/7/2018 | 20,505 | 8 | 2,563 |
| 13 Jul 2018 | 14/8/2018 | 21/8/2018 | 28,874 | 17 | 1,698 |
| 6 Aug 2018 | 14/9/2018 | 18/9/2018 | 25,425 | 24 | 1,059 |
| 16 Aug 2018 | 14/9/2018 | 18/9/2018 | 7,322 | 10 | 732 |

^A Meter unable to be read on 14 Dec 2017

^B Meter unable to be read on 4 & 19 April 2018

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – DISCHARGE VOLUME

| EPA ID Number | | | 1 | | |
|-------------------|--------------------|---------------------------|-------------------------|-------------|---------------------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | |
| Location | | | Fines Disposal Facility | | |
| Analyte/Pollutant | | | Total Volume Discharged | No. of Days | Ave Daily Discharge |
| Unit of Measure | | | kL | -- | kL/day |
| EPL Limit | | | -- | -- | 10,000 |
| Sample Date | Date Data Obtained | Date Data First Published | | | |
| 29 Aug 2018 | 14/9/2018 | 18/9/2018 | 8,030 | 13 | 618 |
| 12 Sep 018 | 12/10/2018 | 22/10/2018 | 8,584 | 14 | 613 |
| 25 Sep 2018 | 12/10/2018 | 22/10/2018 | 7,264 | 13 | 559 |
| 11 Oct 2018 | 12/11/2018 | 26/11/2018 | 9,797 | 16 | 612 |
| 24 Oct 2018 | 12/11/2018 | 26/11/2018 | 12,296 | 13 | 946 |
| 6 Nov 2018 | 13/12/2018 | 19/12/2018 | 9,022 | 13 | 694 |
| 22 Nov 2018 | 13/12/2018 | 19/12/2018 | 9,001 | 16 | 563 |
| 3 Dec 2018 | 31/12/2018 | 12/02/2019 | 5,571 | 11 | 506 |
| 17 Dec 2018 | 31/12/2018 | 12/02/2019 | 6,466 | 14 | 462 |
| 4 Jan 2019 | 15/2/2019 | 20/2/2019 | 7,153 | 18 | 397 |
| 18 Jan 2019 | 15/2/2019 | 20/2/2019 | 5,732 | 14 | 409 |
| 31 Jan 2019 | 15/2/2019 | 20/2/2019 | 3,130 | 13 | 241 |
| 14 Feb 2019 | 14/3/2019 | 26/3/2019 | 3,888 | 14 | 278 |
| 28 Feb 2019 | 14/3/2019 | 26/3/2019 | 3,552 | 14 | 254 |
| 15 Mar 2019 | 12/4/2019 | 16/4/2019 | 3,293 | 15 | 220 |
| 26 Mar 2019 | 12/4/2019 | 16/4/2019 | 3,434 | 11 | 312 |
| 10 Apr 2019 | 13/05/2019 | 14/05/2019 | 5,526 | 15 | 368 |
| 24 Apr 2019 | 13/05/2019 | 14/05/2019 | 4,828 | 14 | 345 |
| 10 May 2019 | 13/06/2019 | 18/06/2019 | 4,911 | 16 | 307 |
| 22 May 2019 | 13/06/2019 | 18/06/2019 | 3,354 | 12 | 280 |
| 4 Jun 2019 | 12/07/2019 | 17/07/2019 | 3,807 | 13 | 293 |
| 21 Jun 2019 | 12/07/2019 | 17/07/2019 | 7,318 | 17 | 430 |
| 4 Jul 2019 | 13/08/2019 | 15/08/2019 | 8,295 | 13 | 638 |
| 19 Jul 2019 | 13/08/2019 | 15/08/2019 | 9,381 | 15 | 625 |
| 31 Jul 2019 | 13/08/2019 | 15/08/2019 | 6,919 | 12 | 577 |
| 14 Aug 2019 | 13/09/2019 | 19/09/2019 | 7,244 | 14 | 517 |
| 27 Aug 2019 | 13/09/2019 | 19/09/2019 | 6,008 | 13 | 462 |
| 11 Sep 2019 | 16/10/2019 | 18/10/2019 | 11,634 | 15 | 776 |
| 25 Sep 2019 | 16/10/2019 | 18/10/2019 | 7,990 | 14 | 571 |
| 30 Oct 2019 | 26/11/2019 | 26/11/2019 | 30,157 | 36 | 838 |
| 15/11/2019 | 17/12/2019 | 20/12/2019 | 10,433 | 16 | 652 |
| 28/11/2019 | 17/12/2019 | 20/12/2019 | 8,285 | 13 | 637 |
| 11/12/2019 | 17/12/2019 | 20/12/2019 | 7,941 | 13 | 611 |
| 17/12/2019 | 17/01/2020 | 30/01/2020 | 3,384 | 6 | 564 |
| 13/01/2020 | 19/02/2020 | 27/02/2020 | New Meter | 27 | New Meter |
| 21/01/2020 | 19/02/2020 | 27/02/2020 | 2,891 | 8 | 361 |
| 30/01/2020 | 19/02/2020 | 27/02/2020 | 2,970 | 9 | 330 |
| 12/02/2020 | 26/03/2020 | 26/03/2020 | 5,802 | 13 | 446 |
| 27/02/2020 | 26/03/2020 | 26/03/2020 | 10,794 | 15 | 720 |
| 12/03/2020 | 20/04/2020 | 29/04/2020 | 8,336 | 14 | 595 |
| 31/03/2020 | 20/04/2020 | 29/04/2020 | 12,037 | 19 | 634 |
| 22/04/2020 | 19/05/2020 | 20/05/2020 | 15,502 | 22 | 705 |
| 30/04/2020 | 19/05/2020 | 20/05/2020 | 4,429 | 8 | 554 |
| 12/05/2020 | 19/06/2020 | 24/06/2020 | 6,043 | 12 | 504 |
| 28/05/2020 | 19/06/2020 | 24/06/2020 | 7,876 | 16 | 492 |
| 10/06/2020 | 14/07/2020 | 23/07/2020 | 7,538 | 13 | 580 |
| 29/06/2020 | 14/07/2020 | 23/07/2020 | 15,204 | 19 | 800 |
| 17/07/2020 | 17/08/2020 | 27/08/2020 | 13,099 | 18 | 728 |
| 30/07/2020 | 17/08/2020 | 27/08/2020 | 14,769 | 13 | 1,136 |
| 18/08/2020 | 14/09/2020 | 17/09/2020 | 35,889 | 19 | 1,889 |
| 31/08/2020 | 14/09/2020 | 17/09/2020 | 22,023 | 13 | 1,694 |
| 15/09/2020 | 16/10/2020 | 23/10/2020 | 18,658 | 15 | 1,244 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY
DISCHARGE TO WATERS – DISCHARGE VOLUME

| EPA ID Number | | | 1 | | |
|-------------------|--------------------|---------------------------|-------------------------|-------------|---------------------|
| PWCS ID | | | WW-K4 (Leachate Sump) | | |
| Location | | | Fines Disposal Facility | | |
| Analyte/Pollutant | | | Total Volume Discharged | No. of Days | Ave Daily Discharge |
| Unit of Measure | | | kL | -- | kL/day |
| EPL Limit | | | -- | -- | 10,000 |
| Sample Date | Date Data Obtained | Date Data First Published | | | |
| 30/09/2020 | 16/10/2020 | 23/10/2020 | 14,872 | 15 | 991 |
| 13/10/2020 | 16/11/2020 | 04/12/2020 | 9,944 | 13 | 765 |
| 29/10/2020 | 16/11/2020 | 04/12/2020 | 13,674 | 16 | 855 |
| 13/11/2020 | 16/12/2020 | 17/12/2020 | 15,337 | 15 | 1,022 |
| 30/11/2020 | 16/12/2020 | 17/12/2020 | 12,605 | 17 | 741 |
| 18/12/2020 | 15/01/2021 | 21/01/2021 | 10,405 | 18 | 578 |
| 30/12/2020 | 15/01/2021 | 21/01/2021 | 8,183 | 12 | 682 |
| 15/01/2021 | 11/02/2021 | 17/02/2021 | 12,119 | 16 | 757 |
| 28/01/2021 | 11/02/2021 | 17/02/2021 | 8,526 | 13 | 656 |
| 22/02/2021 | 15/03/2021 | 23/03/2021 | 18,950 | 25 | 758 |
| 25/02/2021 | 15/03/2021 | 23/03/2021 | 2,511 | 3 | 837 |
| 12/03/2021 | 05/05/2021 | 13/05/2021 | 11,710 | 15 | 781 |
| 6/04/2021 | 05/05/2021 | 13/05/2021 | 11,388 | 25 | 456 |
| 29/04/2021 | 17/05/2021 | 27/05/2021 | 90,934 | 23 | 3,954 |
| 20/05/2021 | 17/06/2021 | 01/07/2021 | 84,971 | 21 | 4,046 |
| 31/05/2021 | 17/06/2021 | 01/07/2021 | 18,965 | 11 | 1,724 |
| 16/06/2021 | 14/07/2021 | 22/07/2021 | 21,778 | 16 | 1,361 |
| 30/06/2021 | 14/07/2021 | 22/07/2021 | 16,164 | 14 | 1,155 |

GROUNDWATER QUALITY MONITORING

GROUNDWATER QUALITY MONITORING

Monitoring frequency for groundwater monitoring is annually

Note: mg/L refers to ‘milligrams per litre’, µg/L refers to ‘micrograms per litre’, and µS/cm⁻¹ refers to ‘microsiemens per centimetre’

| EPA ID Number | | 14 | 18 | 20 | 21 | 22 | 26 | 30 | 31 | 33 | 35 | 37 | 38 | 39 |
|------------------------------------|---------------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PWCS ID | | EPIW_U | EP6W_U | ESH1W_U | ESH2W_U | ESH3W_U | ESH8W_U | EH6W_L | EH7W_L | EH11W_L | EH14W_L | ESH5W_U | ESH6W_U | ESH7W_U |
| Location | | Port Waratah Fines Disposal Facility | | | | | | | | | | | | |
| Sample Date | | 17/05/2017 | 18/05/2017 | 18/05/2017 | 18/05/2017 | 17/05/2017 | 17/05/2017 | 18/05/2017 | 17/05/2017 | 18/05/2017 | 17/05/2017 | 16/05/2017 | 16/05/2017 | 16/05/2017 |
| Date Data Obtained | | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 | 9/6/2017 |
| Date Data Published | | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 | 19/6/2017 |
| Analyte/Pollutant | Unit of Measure | | | | | | | | | | | | | |
| Aluminium - Al | mg/L | <0.01 | <0.01 | <0.01 | 0.10 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Arsenic - As | mg/L | 0.001 | 0.002 | <0.001 | 0.011 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | 0.003 | 0.001 |
| Cadmium - Cd | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Chromium - Cr | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Conductivity - EC | µS/cm ⁻¹ | 3,400 | 2,100 | 3,800 | 2,300 | 6,300 | 4,000 | 27,000 | 5,200 | 9,300 | 29,000 | 1,900 | 4,400 | 2,200 |
| Copper - Cu | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | <0.001 | 0.001 |
| Cyanide - CN | mg/L | 0.007 | <0.004 | 0.008 | <0.004 | 0.087 | 0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Lead - Pb | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese - Mn | mg/L | 0.16 | 2.00 | 0.56 | 0.11 | 1.10 | 3.50 | 0.59 | 0.12 | 0.41 | 0.56 | 0.37 | 1.70 | 0.60 |
| Mercury - Hg | µg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nickel - Ni | mg/L | 0.004 | 0.001 | 0.002 | 0.032 | 0.016 | 0.015 | 0.032 | 0.015 | 0.037 | 0.020 | 0.001 | 0.016 | 0.018 |
| pH | pH | 7.8 | 7.0 | 7.9 | 5.8 | 7.7 | 7.4 | 6.8 | 7.0 | 6.4 | 6.7 | 7.6 | 7.6 | 7.4 |
| Phenol | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Selenium - Se | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Total PAH's | µg/L | <1.7 | <1.7 | <1.7 | 1.1 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| Total Petroleum Hydrocarbons - TPH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Zinc - Zn | mg/L | 0.001 | 0.006 | <0.001 | 0.009 | <0.001 | 0.007 | 0.013 | 0.009 | 0.005 | 0.007 | 0.006 | <0.001 | 0.003 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY

GROUNDWATER QUALITY MONITORING

| EPA ID Number | | 14 | 18 | 20 | 21 | 22 | 26 | 30 | 31 | 33 | 35 | 37 | 38 | 39 |
|------------------------------------|---------------------|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| PWCS ID | | EPIW_U | EP6W_U | ESH1W_U | ESH2W_U | ESH3W_U | ESH8W_U | EH6W_L | EH7W_L | EH11W_L | EH14W_L | ESH5W_U | ESH6W_U | ESH7W_U |
| Location | | Port Waratah Fines Disposal Facility | | | | | | | | | | | | |
| Sample Date | | 28/5/2018 | 30/5/2018 | 29/5/2018 | 29/5/2018 | 30/5/2018 | 29/5/2018 | 29/5/2018 | 29/5/2018 | 29/5/2018 | 30/5/2018 | 28/5/2018 | 28/5/2018 | 28/5/2018 |
| Date Data Obtained | | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 | 15/6/2018 |
| Date Data Published | | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 | 22/6/2018 |
| Analyte/Pollutant | Unit of Measure | | | | | | | | | | | | | |
| Aluminium - Al | mg/L | <0.01 | 0.02 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Arsenic - As | mg/L | <0.001 | 0.001 | <0.001 | 0.003 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | 0.001 | 0.001 |
| Cadmium - Cd | mg/L | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 | 0.0001 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Chromium - Cr | mg/L | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 |
| Conductivity - EC | µS/cm ⁻¹ | 3,300 | 1,400 | 5,500 | 2,800 | 7,400 | 4,600 | 32,000 | 5,900 | 12,000 | 34,000 | 2,000 | 6,400 | 2,000 |
| Copper - Cu | mg/L | 0.010 | 0.032 | 0.001 | <0.001 | 0.007 | 0.003 | 0.026 | 0.032 | 0.006 | 0.019 | 0.005 | <0.001 | 0.042 |
| Cyanide - CN | mg/L | 0.006 | <0.004 | 0.009 | <0.004 | 0.110 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.006 | <0.004 | <0.004 |
| Lead - Pb | mg/L | 0.002 | 0.003 | <0.001 | <0.001 | 0.001 | <0.001 | 0.030 | 0.003 | <0.001 | 0.002 | <0.001 | <0.001 | 0.003 |
| Manganese - Mn | mg/L | 0.058 | 0.640 | 0.110 | 0.007 | 1.100 | 6.400 | 0.770 | 0.097 | 0.340 | 0.630 | 0.300 | 2.000 | 0.500 |
| Mercury - Hg | µg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nickel - Ni | mg/L | 0.033 | 0.007 | 0.011 | 0.030 | 0.014 | <0.001 | 0.036 | 0.012 | 0.001 | 0.038 | 0.037 | 0.018 | 0.020 |
| pH | pH | 6.3 | 7.1 | 7.4 | 5.7 | 7.7 | 7.5 | 7.1 | 7.6 | 7.8 | 7.0 | 6.0 | 7.5 | 7.5 |
| Phenol | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Selenium - Se | mg/L | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 |
| Total PAH's | µg/L | 0.61 | 0.24 | <1.7 | 0.42 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | 0.20 | <1.7 | <1.7 | <1.7 |
| Total Petroleum Hydrocarbons - TPH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Zinc - Zn | mg/L | 0.060 | 0.069 | 0.006 | 0.022 | 0.037 | 0.017 | 0.069 | 0.055 | 0.036 | 0.077 | 0.080 | 0.001 | 0.063 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY

GROUNDWATER QUALITY MONITORING

| EPA ID Number | | 14 | 18 | 20 | 21 | 22 | 26 | 30 | 31 | 33 | 35 | 37 | 38 | 39 |
|------------------------------------|---------------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PWCS ID | | EPIW_U | EP6W_U | ESHIW_U | ESH2W_U | ESH3W_U | ESH8W_U | EH6W_L | EH7W_L | EHI1W_L | EHI4W_L | ESH5WA_U | ESH6W_U | ESH7W_U |
| Location | | Port Waratah Fines Disposal Facility | | | | | | | | | | | | |
| Sample Date | | 08/05/2019 | 09/05/2019 | 08/05/2019 | 09/05/2019 | 09/05/2019 | 07/05/2019 | 08/05/2019 | 08/05/2019 | 08/05/2019 | 08/05/2019 | 07/05/2019 | 07/05/2019 | 07/05/2019 |
| Date Data Obtained | | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 | 21/06/2019 |
| Date Data Published | | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 | 27/06/2019 |
| Analyte/Pollutant | Unit of Measure | | | | | | | | | | | | | |
| Aluminium - Al | mg/L | 0.01 | 0.02 | <0.01 | 0.19 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Arsenic - As | mg/L | <0.001 | 0.002 | <0.001 | 0.011 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | 0.001 | <0.001 |
| Cadmium - Cd | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Chromium - Cr | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 |
| Conductivity - EC | µS/cm ⁻¹ | 4,300 | 1,400 | 4,300 | 2,600 | 7,100 | 5,400 | 27,000 | 5,200 | 11,000 | 32,000 | 3,100 | 5,000 | 28,000 |
| Copper - Cu | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | 0.001 | <0.001 |
| Cyanide - CN | mg/L | 0.006 | <0.004 | 0.007 | <0.004 | 0.140 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Lead - Pb | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese - Mn | mg/L | 0.10 | 0.35 | 0.06 | <0.005 | 1.10 | 0.03 | 0.72 | 0.11 | 0.28 | 0.59 | 0.29 | 2.00 | 0.76 |
| Mercury - Hg | µg/L | <0.05 | <0.05 | <0.05 | 0.01 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nickel - Ni | mg/L | <0.001 | 0.002 | <0.001 | 0.001 | 0.007 | 0.012 | 0.020 | 0.013 | 0.006 | 0.062 | <0.001 | 0.014 | 0.015 |
| pH | pH | 8.3 | 7.7 | 8.5 | 10.6 | 7.7 | 8.3 | 7.2 | 7.6 | 7.9 | 7.1 | 8.0 | 8.1 | 7.7 |
| Phenol | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Selenium - Se | mg/L | <0.001 | <0.001 | 0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Total PAH's | µg/L | 1.0 | <1.7 | <1.7 | 2.0 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| Total Petroleum Hydrocarbons - TPH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Zinc - Zn | mg/L | <0.001 | 0.003 | <0.001 | 0.001 | <0.001 | 0.010 | 0.002 | 0.003 | 0.008 | 0.005 | 0.003 | 0.007 | 0.004 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY

GROUNDWATER QUALITY MONITORING

| EPA ID Number | | 14 | 18 | 20 | 21 | 22 | 26 | 30 | 31 | 33 | 35 | 37 | 38 | 39 |
|------------------------------------|---------------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PWCS ID | | EPIW_U | EP6W_U | ESH1W_U | ESH2W_U | ESH3W_U | ESH8W_U | EH6W_L | EH7W_L | EHI1W_L | EHI4W_L | ESH5WA_U | ESH6WA_U | ESH7W_U |
| Location | | Port Waratah Fines Disposal Facility | | | | | | | | | | | | |
| Sample Date | | 11/05/2020 | 14/05/2020 | 15/05/2020 | 14/05/2020 | 14/05/2020 | 12/05/2020 | 12/05/2020 | 13/05/2020 | 14/05/2020 | 15/05/2020 | 15/05/2020 | 12/05/2020 | 15/05/2020 |
| Date Data Obtained | | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 | 16/06/2020 |
| Date Data Published | | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 | 24/06/2020 |
| Analyte/Pollutant | Unit of Measure | | | | | | | | | | | | | |
| Aluminium - Al | mg/L | <0.01 | 0.03 | <0.01 | 0.27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | 0.02 |
| Arsenic - As | mg/L | <0.001 | 0.001 | <0.001 | 0.010 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | 0.001 | 0.001 |
| Cadmium - Cd | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Chromium - Cr | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Conductivity - EC | µS/cm ⁻¹ | 5,300 | 1,100 | 3,400 | 2,400 | 9,000 | 5,300 | 30,000 | 5,700 | 13,000 | 33,000 | 1,800 | 8,700 | 2,500 |
| Copper - Cu | mg/L | <0.001 | 0.016 | 0.001 | <0.001 | 0.003 | 0.004 | <0.001 | 0.006 | 0.005 | <0.001 | <0.001 | 0.006 | 0.002 |
| Cyanide - CN | mg/L | 0.008 | <0.004 | <0.004 | <0.004 | 0.100 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Lead - Pb | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese - Mn | mg/L | 0.04 | 0.37 | 0.11 | 0.01 | 1.30 | 4.20 | 0.68 | 0.11 | 0.21 | 0.59 | 0.16 | 4.20 | 0.63 |
| Mercury - Hg | µg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nickel - Ni | mg/L | 0.003 | 0.004 | 0.001 | 0.002 | 0.011 | <0.001 | 0.026 | 0.018 | 0.027 | 0.063 | 0.016 | 0.010 | 0.031 |
| pH | pH | 7.9 | 7.8 | 8.4 | 10.4 | 7.9 | 7.7 | 7.0 | 7.7 | 6.6 | 6.2 | 7.5 | 7.7 | 5.9 |
| Phenol | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Selenium - Se | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Total PAH's | µg/L | 0.1 | 0.3 | 1.3 | 1.5 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| Total Petroleum Hydrocarbons - TPH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Zinc - Zn | mg/L | 0.002 | 0.009 | 0.003 | 0.005 | 0.003 | 0.004 | 0.004 | 0.004 | 0.009 | 0.083 | 0.008 | 0.004 | 0.033 |

EPL MONITORING DATA: FINES DISPOSAL FACILITY

GROUNDWATER QUALITY MONITORING

| EPA ID Number | 14 | 18 | 20 | 21 | 22 | 26 | 30 | 31 | 33 | 35 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
|--------------------------------------|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| PWCS ID | EPIW_U | EP6W_U | ESH1W_U | ESH2W_U | ESH3W_U | ESH8W_U | EH6W_L | EH7W_L | EHI1W_L | EHI4W_L | ESH5WA_U | ESH6WA_U | ESH7WA_U | ESH5W_L | ESH6W_L | ESH7W_L | ESH8W_L |
| Location | Port Waratah Fines Disposal Facility | | | | | | | | | | | | | | | | |
| Sample Date | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 17/05/21 | 20/5/21 | 18/5/21 | 18/5/21 | 18/5/21 |
| Date Data Obtained | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 | 17/06/21 |
| Date Data Published | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 | 01/07/21 |
| Analyte/Pollutant | Unit of Measure | | | | | | | | | | | | | | | | |
| Aluminium - Al | mg/L | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Arsenic - As | mg/L | 0.002 | 0.004 | 0.002 | 0.002 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | 0.003 | 0.002 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 |
| Cadmium - Cd | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0004 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Chromium - Cr | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | <0.001 |
| Conductivity - EC | µS/cm ⁻¹ | 3,400 | 3,600 | 5,200 | 6,800 | 7,700 | 2,600 | 29,000 | 6,000 | 12,000 | 37,000 | 4,200 | 5,200 | 3,300 | 11,000 | 39,000 | 32,000 |
| Copper - Cu | mg/L | <0.001 | 0.003 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Cyanide - CN | mg/L | <0.004 | <0.004 | <0.004 | <0.004 | 0.081 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Lead - Pb | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese - Mn | mg/L | 0.64 | 0.28 | 0.34 | 0.07 | 1.60 | 2.70 | 0.88 | 0.13 | 1.90 | 0.84 | 0.22 | 2.60 | 0.86 | 0.08 | 0.95 | 0.86 |
| Mercury - Hg | µg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Nickel - Ni | mg/L | 0.012 | 0.010 | 0.010 | 0.004 | 0.009 | 0.007 | 0.034 | 0.017 | 0.012 | 0.075 | 0.036 | 0.013 | 0.006 | 0.005 | 0.009 | 0.023 |
| pH | pH | 7.1 | 7.4 | 7.7 | 7.4 | 7.8 | 7.5 | 6.8 | 7.4 | 7.5 | 6.8 | 6.4 | 7.1 | 7.5 | 7.3 | 6.7 | 6.8 |
| Phenol | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Selenium - Se | mg/L | <0.001 | 0.002 | 0.003 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Total PAH's | µg/L | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Petroleum Hydrocarbons - TPH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Total Recoverable Hydrocarbons - TRH | µg/L | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 | <260 |
| Zinc - Zn | mg/L | 0.003 | 0.004 | 0.001 | 0.025 | 0.001 | 0.009 | 0.007 | 0.002 | <0.001 | <0.001 | 0.023 | 0.012 | 0.008 | 0.005 | 0.006 | 0.007 |

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 |
|------------|--------------------|-------------|---------------|----------------|----------------|---------------------------|-----------------------|
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SITE MAP AND MONITORING LOCATIONS

SITE MAP AND MONITORING LOCATIONS



Figure I: Environment Protection Licence 5022 Monitoring Locations