

February 2023 - PKGT Monitoring Summary Report

The following Port Kembla Grain Terminal (PKGT) monthly monitoring summary report has been prepared by GrainCorp in accordance with Section 66 of the Pollution of the Environment Operations Act 1997. Monitoring data shared with the

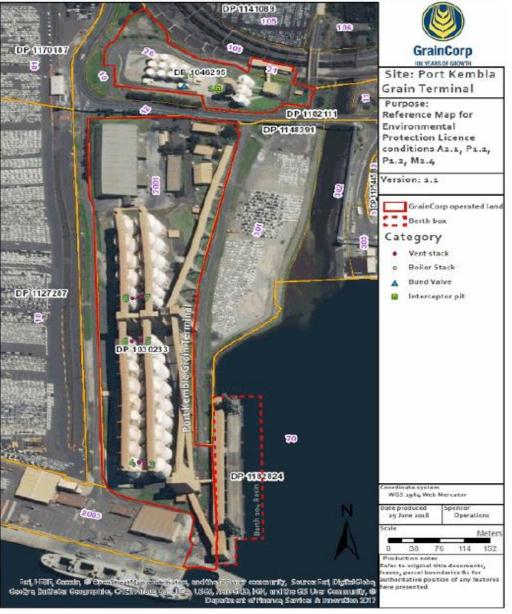
| public on the website includes that collected as part of the Environmental Protection Licence (EPL) for the Port Kembla G | rain Terminal Site. Monthly monitoring sum | maries are completed on the last day of | any given month for the data collected. | | | | |
|---|--|---|---|--|--|--|--|
| Report contents | | | | | | | |
| Section A. Map of PKGT and the location of sampling points as per the Environmental Protection Licence | | | | | | | |
| 0.11. 0.0007(1.11. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1 | | ✓ Yes | □ No | | | | |
| Section B. PKGT fumigation emissions monitoring (Sampling Points 3,4,5,6,7 and 8) | Monitoring triggered in this period | see Section B Ves | has not been included in report | | | | |
| Section C. PKGT interceptor water monitoring (Sampling Point 1) | and summarised in report? | see Section C | No has not been included in report | | | | |
| Section C. FROT interception water monitoring (Sampling Point 1) | and summarised in report: | Yes | ✓ No | | | | |
| Section D. PKGT diesel boiler monitoring (Sampling Point 2) | | see Section D | has not been included in report | | | | |
| EPL Number Licensee Name Address EPL Public Register Link Site details 6rainCorp Operations Limited Port Kembla Grain Terminal, Morton Way, Port Kembla NSW 2505 Port Kembla Grain Terminal, Morton Way, Port Kembla NSW 2505 http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=3693&id=3693&option=licence&searchrange=licence&prp=no&status=lssued | | | | | | | |
| Technical Reviewer | | | | | | | |
| A. Costa Name | | | | | | | |
| 17/03/2023 | | | | | | | |

Date published to website

20/03/2023

Date

A. Sampling points as per EPL - Port Kembla Grain Terminal



Environment Protection licence (EPL) Monitoring Locations

| Point | Location at PKGT | | | | | | | |
|---------|---|--|--|--|--|--|--|--|
| 1 | Located at the Bulk Liquid Storage area of the Port Kembla Grain Terminal. The was sample is collected downstream the bund valve from the final section of the interceptor. | | | | | | | |
| 2 | Diesel boiler air vent located within the bulk liquid storage area directly east of the bulk storage tank area bund. | | | | | | | |
| 3 and 4 | Most southern fumigation vents located beside silos A1 and B1. | | | | | | | |
| 5 and 6 | Fumigation vent located in the centre of the site beside silos A9 and B9. | | | | | | | |
| 7 and 8 | The northern most fumigation vents located beside silos A10 and B10, just north of points 5 and 6. | | | | | | | |

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B. GrainCorp - Port Kembla Fumigation monitoring data summary: February 2023

All air monitoring has been conducted in accordance with the methodology prescribed or a methodology approved in writing with NSW EPA.

Monitoring frequency: Continuous during every ventilation

No. of ventilation events during month: 11

| Velocity | | | | | | Exceedance | | | Re | sult | Limit | | | |
|--|-----------|-------------------------------|------------|-------|------|-----------------------|---------------------|---------------|------------|------------|-------|------------|-------|---------------------|
| Methyl Bromide B5 13:48 n/a no R. Newton Concentration NA 6.0662 8 garms per second s | | Pollutant (discharged to air) | | | | vent in initial purge | Sampler (fumigator) | Parameter | Min. value | Max. value | • | | point | Exceedance (yes/no) |
| Methyl Bromide | | | | | | | | | | | | | | |
| Methyl Bromide B5 13:48 n/a no R. Newton Velocity 1:55 NA 1.4 metres per 6 no NA Social side ventilation event Single side ventilation event No discharge occurred No No R. Newton Velocity No No R. Newton No No R. Newton No No No No No No No | | Single silo ventilation event | | | I | | | | 1 | | | I | | |
| Single silo ventilation event Single silo ventilation even | | Marked Brancida | D.F. | 12.40 | - /- | | B. N | Concentration | NA | 6.0662 | 8 | | | no |
| Scool silo ventilation event | | Metnyi Bromide | ВЭ | 13:48 | n/a | no | K. Newton | Velocity | 1.55 | NA | 1.4 | metres per | ь | no |
| Concentration NA - | 3/02/2023 | Second silo ventilation event | | | | | | , | | 1 | | second | | |
| No discharge occurred Velocity NA | | | | | | | | Concentration | NΔ | | _ | | | |
| Single silo ventilation event Na Second Second Na Second Second Second Na Second Second Second Na Second Sec | | No discharge occurred | | | | | | | INA | | | | - | |
| Methyl Bromide | | | | | | | | Velocity | | NA | - | | | |
| Methyl Bromide | | Single sile ventilation event | | | | | | | | | | | | 1 |
| Methyl Bromide | | Single sho ventuation event | | | | | | | | | | grams per | | |
| 1/02/2023 Second silo ventilation event Concentration NA NA NA NA NA NA NA N | | Methyl Bromide | В6 | 11:41 | n/a | No | R. Newton | Concentration | NA | 4.9246 | 8 | second | 6 | no |
| Second silo ventilation event | | | 50 11.41 | | | | | Velocity | 1.56 | NA | 1.4 | | | no |
| No discharge occurred No d | 1/02/2023 | second | | | | | | | | | | | | |
| No discharge occurred No discharge occurred No di | | No discharge occurred | | | | | | Concentration | NA | | - | - | | |
| Single silo ventilation event Single silo ventilation event | | | | | | | | | | | _ | | | |
| Methyl Bromide A8 15:10 | | | | | | | | Velocity | | NA | - | | | |
| Methyl Bromide | | | | | | | | | | | | | | |
| Methyl Bromide A8 15:10 n/a no R. Newton Velocity 1.56 NA 1.4 metres per second Second silo ventilation event Concentration NA S.3.225 8 second 5 no NA Second Second silo ventilation event Single silo ventilation event Single silo ventilation event Second silo ventila | | Single silo ventilation event | | | 1 | T | | | | | | | | |
| Second silo ventilation event Single silo ventilation event Second Second silo ventilation event Second silo ventila | | and Investig | | | - 1- | | D. Noveton | Concentration | NA | 3.525 | 8 | | _ | no |
| Second silo ventilation event No discharge occurred Second Concentration NA Second Velocity NA Single silo ventilation event Methyl Bromide B4 14:40 No R. Newton Concentration NA Second Velocity NA Second S | | Methyl Bromide | A8 15:10 | 15:10 | n/a | no | K. Newton | Velocity | 1.56 | NA | 1.4 | metres per | 5 | no |
| No discharge occurred Concentration NA - | 6/02/2023 | Second silo ventilation event | | | | | | • | | | | second | | |
| No discharge occurred Velocity NA | | | | | | | | Concentration | NA | | - | - | | |
| Single silo ventilation event Methyl Bromide B4 14:40 n/a No R. Newton Concentration NA 5.3014 Second F. Newton Velocity 1.54 NA 1.4 Metres per second No Second silo ventilation event Concentration NA Concentration NA NA NA Metres per second NA Metres per second NA Metres per second Metres per metres | | No discharge occurred | | | | | | | | | | | - | |
| 8/02/2023 Methyl Bromide B4 14:40 n/a No R. Newton Concentration NA 5.3014 8 grams per second 6 no Second silo ventilation event Concentration NA 1.4 metres per second no Second silo ventilation event Concentration NA MA MA MA MA MA METHYL SPECIAL SP | | | | | | | | Velocity | | NA | - | | | |
| 8/02/2023 Methyl Bromide B4 14:40 n/a No R. Newton Concentration NA 5.3014 8 grams per second 6 no No Second silo ventilation event Concentration NA 1.4 metres per second no Concentration NA - grams per second no metres per second | | Single silo ventilation event | | | | | | | | | | | | 1 |
| 8/02/2023 Methyl Bromide B4 14:40 n/a No R. Newton Velocity 1.54 NA 1.4 metres per second no Second silo ventilation event No discharge occurred No discharge occurred Concentration NA S.3014 S Second 6 no Concentration NA S.3014 S Second 6 no R. Newton Velocity 1.54 NA 1.4 metres per second metres per second metres per second | | Single sho ventilation event | | | | | | Camanatanatic | NA | F 2014 | | grams per | | |
| 8/02/2023 Second silo ventilation event Concentration NA Second MA MA MA Material per second MA MA MA MA MA MA MA M | | Methyl Bromide | В4 | 14:40 | n/a | No | R. Newton | Concentration | NA | 5.3014 | 8 | | 6 | no |
| Second silo ventilation event No discharge occurred Concentration NA grams per second metres per | | , | 20 | | , 2 | | R. Newton | Velocity | 1.54 | NA | 1.4 | | | no |
| No discharge occurred Concentration NA - second - metres per | 8/02/2023 | Second silo ventilation event | | | | | | | | | | Second | | |
| No discharge occurred second - metres ner | | | | | | | | Concentration | NA | | | | | |
| | | No discharge occurred | | | | | | | | | | _ | - | |
| Velocity NA - second | | | | | | | | Velocity | | NA | = | 7 | | |

B. GrainCorp - Port Kembla Fumigation monitoring data summary: February 2023

All air monitoring has been conducted in accordance with the methodology prescribed or a methodology approved in writing with NSW EPA.

Monitoring frequency: Continuous during every ventilation

No. of ventilation events during month: 11

| | | | | | Exceedance | | | Res | sult | Limit | | | |
|--------------------------------------|-------------------------------|------------------|------------------------------|----------------------------|------------|---------------------|---------------|------------|------------|-------------------------------|----------------------|---------------------------|---------------------|
| Sampling date (ventilation event) | Pollutant (discharged to air) | Silo Vent No. | Initial Purge start time^ | Initial Purge end time* | | Sampler (fumigator) | Parameter | Min. value | Max. value | 100 percentile (allowable) | Units of measure | Monitoring point location | Exceedance (yes/no) |
| | | | | | | | | | | | | | |
| | Single silo ventilation event | | | 1 | ı | | | | | | | | |
| | Methyl Bromide | B12 | 11:09 | n/a | no | R. Newton | Concentration | NA | 5.2412 | 8 | grams per second | - 8 | no |
| 11/02/2023 | · | | | | | | Velocity | 1.54 | NA | 1.4 | metres per second | | no |
| | Second silo ventilation event | 1 | | | | | | | | | grams per | ı | |
| | No discharge occurred | | | | | | Concentration | NA | | - | second metres per | - | |
| | | | | | | | Velocity | | NA | - | second | | |
| | | | | | | | | | | | | | |
| | Single silo ventilation event | | | | | | | | | | I | 1 | |
| | Methyl Bromide | A11 | A11 14:25 | n/a | No | R. Newton | Concentration | NA | 4.7173 | 8 | grams per second | 7 | no |
| 14/02/2023 | meury, Bronnae | ,,,,,, | 120 | , | | | Velocity | 1.54 | NA | 1.4 | metres per second | , | no |
| 14/02/2023 | Second silo ventilation event | | | | | | | | | | | | |
| | No discharge occurred | | | | | | Concentration | NA | | - | grams per second | | |
| | | | | | | | Velocity | | NA | - | metres per second | - | |
| | | | | • | • | | | • | | | | | |
| | Single silo ventilation event | | | | | | | | | | | | |
| | Dhaenhina | B15 | 17:31 | 7/0 | no | | Concentration | NA | 0.036 | 0.0424 | grams per second | | no |
| 13/02/2023 | Phosphine | B13 | 17:31 | n/a | no no | R. Newton | Velocity | 0.65 | NA | 0.5 | metres per second | 8 | no |
| 20,02,2020 | Second silo ventilation event | | | | | | _ | | | | | | |
| | No discharge occurred | | | | | | Concentration | NA | | - | grams per second | _ | |
| | no assertange occurred | | | | | | Velocity | | NA | - | metres per second | | |
| | | | | | | | | | | | | | |
| | Single silo ventilation event | | | 1 | 1 | | | | | | | | |
| | Methyl Bromide | B12 | 9:35 | n/a | No | R. Newton | Concentration | NA | 6.0042 | 8 | grams per second | - 8 | no |
| 22/02/2022 | | | 3.33 | , = | | in itemon | Velocity | 1.55 | NA | 1.4 | metres per second | Ü | no |
| 23/02/2023 | Second silo ventilation event | | | | | | | | | | | | |
| | No disabassa sassas d | | | | | | Concentration | NA | | - | grams per second | | |
| | No discharge occurred | | | | | | Velocity | | NA | - | metres per second | - | |

B. GrainCorp - Port Kembla Fumigation monitoring data summary: February 2023

All air monitoring has been conducted in accordance with the methodology prescribed or a methodology approved in writing with NSW EPA.

Monitoring frequency: Continuous during every ventilation

No. of ventilation events during month: 11

| | | | | | Exceedance | | | Re | sult | Limit | | | |
|--------------------------------------|-------------------------------|------------------|--------------|----------------------------|---|------------|---------------|------------|-------------------------------|------------------|---------------------------|---------------------|----|
| Sampling date (ventilation event) | Pollutant (discharged to air) | Silo Vent No. | | Initial Purge end time* | More than one silo vent in initial purge phase?* (yes/no) | Parameter | Min. value | Max. value | 100 percentile (allowable) | Units of measure | Monitoring point location | Exceedance (yes/no) | |
| | Single silo ventilation event | | | | | | | | | | | | |
| | | 46 | 11.01 | - /- | N | D. Navidan | Concentration | NA | 6.2742 | 8 | grams per second | - | no |
| 25/02/2023 | Methyl Bromide | A6 | 11:01 | n/a | No | R. Newton | Velocity | 1.54 | NA | 1.4 | metres per second | 5 | no |
| 25/02/2025 | Second silo ventilation event | | | | | | | | | | • | | |
| | No discharge occurred | | | | | | Concentration | NA | | - | grams per second | _ | |
| | No discharge occurred | | | | | | Velocity | | NA | - | metres per second | | |
| - | | | | | | | | | | | | | |
| | Single silo ventilation event | | | | | | | | | | | | |
| | ŕ | A5 | A5 12:20 n/s | n/a | n/a no | R. Newton | Concentration | NA | 5.754 | 8 | grams per second | 5 | no |
| 18/02/2023 | | 7.5 | 12.20 | , u | | | Velocity | 1.53 | NA | 1.4 | metres per second | 3 | no |
| | Second silo ventilation event | | | | | | | | | | • | | |
| | No discharge occurred | | | | | | Concentration | NA | | - | grams per second | _ | |
| | | | | | | | Velocity | | NA | - | metres per second | | |
| | Single silo ventilation event | | | | | | | | | | | | |
| | | D2 | 45.45 | - /- | Ma | B. N | Concentration | NA | 6.0688 | 8 | grams per second | | no |
| 27/02/2022 | Methyl Bromide | В3 | B3 15:15 | n/a | No | R. Newton | Velocity | 1.56 | NA | 1.4 | metres per second | 6 | no |
| 27/02/2023 | Second silo ventilation event | | | | | | | | | | | | |
| | No discharge occurred | | | | | | Concentration | NA | | - | grams per second | | |
| | | | | | | | Velocity | | NA | - | metres per second | - | |

C. GrainCorp - Port Kembla water monitoring data summary: February 2023

The concentration of each pollutant specified below has been determined using the required sampling method, units of measure and sample frequency specified in the EPL. Water parameters and water samples are collected by suitably qualified staff and, where required, water samples are analysed at a NATA accredited laboratory.

Monitoring frequency: Single sample each day during any discharge (i.e. daily)

Number of water release events during month: 3

Monitoring Point Location: Point 1

| | | | Result | | Limit | | |
|---|--------------------------------|------------|------------|-------------------------|----------------------------|------------------|---------------------|
| Number of times measured/sampled during month | Pollutant (discharge to water) | Min. value | Max. value | Visible or not visible? | 100 percentile (allowable) | Units of measure | Exceedance (yes/no) |
| montn | water) | | | | | | |
| | Oil and Grease | NA | NA | Not visible | Not visible | Visible | no |
| 3 | pH | 7.73 | 7.91 | | 6.5-8.5 | pН | no |
| 5 | Total suspended solids | <5 | <5 | NA | 50 | mg/L | no |
| | Turbidity | 1.38 | 4.32 | | 40 | NTU | no |

| Sampling Event details | | | | | | | | |
|------------------------|---------|-----------------|---------------|--|--|--|--|--|
| Sampling date | Sampler | Lab report date | Lab report ID | | | | | |
| 9/02/2023 | B Loke | 13/02/2023 | EW2300650 | | | | | |
| 13/02/2023 | B Loke | 20/02/2023 | EW2300726 | | | | | |
| 14/02/2023 | B Loke | 23/02/2023 | EW2300857 | | | | | |

| Unit of Measure Abbreviation | Unit of Measure |
|---------------------------------|-------------------------------|
| mg/L | milligrams per litre |
| рН | рН |
| Visible | Visible |
| NTU | nephelometric turbidity units |