

September 2022 - 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 Grain Terminal Site. Monthly monitoring summaries are completed on the last day of any given month for the data collected.

Report contents

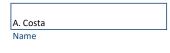
Section A. Map of PKGT and the location of sampling points as per the Environmental Protection Licence

		✓ Yes	🗌 No
Section B. PKGT fumigation emissions monitoring (Sampling Points 3,4,5,6,7 and 8)		see Section B	has not been included in report
	Monitoring triggered in this period	✓ Yes	🗌 No
Section C. PKGT interceptor water monitoring (Sampling Point 1)	and summarised in report?	see Section C	has not been included in report
		□ Yes	✓ No
Section D. PKGT diesel boiler monitoring (Sampling Point 2)		see Section D	has not been included in report

Site details

EPL Number	3693
Licensee Name	GrainCorp Operations Limited
Address	Port Kembla Grain Terminal, Morton Way, Port Kembla NSW 2505
EPL Public Register Link	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=3693&id=3693&option=licence&searchrange=licence⦥=POEO licence&prp=no&status=Issued

Technical Reviewer



17/10/2022	
Date	

Date published to website

/ /	
19/10/2022	
Date	

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



Environment Protection licence (EPL) Monitoring Locations

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Point	Location at PKGT
1	Located at the Bulk Liquid Storage area of the Port Kembla Grain Terminal. The water 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.

B. GrainCorp - Port Kembla Fumigation monitoring data summary: September 2022

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: 5

					Exceedance			Re	sult	Limit			
Sampling date (ventilation event)	Pollutant (discharged to air)	Silo Vent No.	Initial Purge start time^	Initial Purge end time*	More than one silo vent in initial purge phase?* (yes/no)	Sampler (fumigator)	Parameter		Max. value	100 percentile (allowable)	Units of measure	Monitoring point location	Exceedance (yes/no)
	Single silo ventilation event								· · · · · · · · · · · · · · · · · · ·				
	Phosphine	B3	14:59	n/a	10	R. Newton	Concentration	NA	0.0382	0.0424	grams per second	- 6	no
1/09/2022		55	14.55	ii,u	no	in newton	Velocity	0.66	NA	0.5	metres per second		no
	Second silo ventilation event							1					
	No discharge occurred						Concentration	NA		-	grams per second metres per		
							Velocity		NA	-	second		
	Single silo ventilation event												
	Methyl Bromide	В5	15:55	n/a	No	D. Neuter	Concentration	NA	6.1702	8	grams per second	- 6	no
14/09/2022	wetny bromide	65	15.55	li/a	NO	R. Newton	Velocity	1.56	NA	1.4	metres per second		no
14/03/2022	Second silo ventilation event							1			1	1	
	No discharge occurred						Concentration	NA		-	grams per second		
							Velocity		NA	-	metres per second		
	Single silo ventilation event										grams per		
	Methyl Bromide	A3	A3 15:51	n/a	No	R. Newton	Concentration	NA	6.1454	8	second metres per	- 5	no
23/09/2022							Velocity	1.55	NA	1.4	second		no
	Second silo ventilation event							[grams per		
	No discharge occurred						Concentration	NA		-	second		
							Velocity		NA	-	metres per second		
	Single silo ventilation event												
							Concentration	NA	6.4101	8	grams per second		no
	Methyl Bromide A7	12:19 n/a	n/a	n/a No	R. Newton	Velocity	1.55	NA	1.4	metres per second	- 5	no	
26/09/2022	Second silo ventilation event										Iseconu		
							Concentration	NA		-	grams per second		
	No discharge occurred				Velocity		NA	-	metres per second	-			

B. GrainCorp - Port Kembla Fumigation monitoring data summary: September 2022

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: 5 Result Exceedance Limit Monitoring Sampling date Initial Purge end | More than one silo Silo Vent **Initial Purge** Units of Pollutant (discharged to air) Sampler (fumigator) Parameter 100 percentile point Exceedance (yes/no) (ventilation event) No. start time^ time* vent in initial purge Min. value Max. value measure location (allowable) phase?* (yes/no) Single silo ventilation event grams per Concentration NA 6.0284 8 no second A10 11:09 Methyl Bromide n/a No R. Newton 7 metres per Velocity 1.53 NA 1.4 no second 30/09/2022 Second silo ventilation event grams per NA Concentration second No discharge occurred metres per Velocity NA second

Methyl bromide max concentration = 8g/sec, min velocity = 1.4m/sec

Phosphine max concentration = 0.0424g/sec; min velocity = 0.5m/sec

^ Initial Purge times that coincide are shaded in purple.

*The Initial Purge phase is the time between the start of vent and until emission rate from the grain silo is either 1 gram per second of Methyl Bromide or 0.01 grams per second of Phosphine. Only one grain silo can be in the initial purge phase at any one time. The maximum number of grain silos venting at any one time must not exceed two.

C. GrainCorp - Port Kembla water monitoring data summary: September 2022

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: 4

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 (<mark>yes/</mark> no)
	Oil and Grease	NA	NA	Not visible	Not visible	Visible	no
4	рН	6.95	8.22		6.5-8.5	рН	no
4	Total suspended solids	<5	18	NA	50	mg/L	no
	Turbidity	2.47	6.02		40	NTU	no

Sampling Event details						
Sampling date	Sampler	Lab report date	Lab report ID			
6/09/2022	D Jackson	13/09/2022	EW2204108			
23/09/2022	D Jackson	4/10/2022	EW2204444			
28/09/2022	D Jackson	30/09/2022	EW2204496			
29/09/2022	D Jackson	7/10/2022	EW2204513			

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