



Dec 2021 - Carrington Grain Terminal Monitoring Summary Report

The following Newcastle Grain Terminal 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 Newcastle 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 Newcastle Grain Terminal and the location of sampling points as per the Environmental Protection Licence

Section B. Newcastle Grain Terminal fumigation emissions monitoring (Sampling Point 2)

Monitoring triggered in this period and summarised in report?

Yes
see Section B

No
has not been included in report

Site details

EPL Number	1296
Licensee Name	GrainCorp Operations Limited
Address	Newcastle Grain Terminal
EPL Public Register Link	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=1296&id=1296&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued

Technical Reviewer

A. Costa
Name

17/01/2022
Date

Date published to website

18/01/2022
Date

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: Dec 2021

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: 10

Sampling date (start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Result		Limit	Units of measure	Monitoring point location	Exceedance (yes/no)
			Min. value	Max. value	100 percentile (allowable)			
02/12/21 16:30pm Silo K1	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter						
	Volumetric flow rate	P.Cowling	0.6	2.6	10	grams per cubic meter	Point 2	no
		-	0.109	0.134	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	
04/12/2021 12:35pm Silo J4	<i>Scenario 1</i>							
	Methyl bromide	A.Donnely						
	Volumetric flow rate	P.Cowling	0.6	4.4	10	grams per cubic meter	Point 2	no
		-	0.059	0.093	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	
05/12/2021 13:30pm Silo H5	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter						
	Volumetric flow rate	P.Cowling	0.8	6	10	grams per cubic meter	Point 2	no
		-	0.108	0.122	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: Dec 2021

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: 10

Sampling date (start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Result		Limit	Units of measure	Monitoring point location	Exceedance (yes/no)
			Min. value	Max. value	100 percentile (allowable)			
02/12/2021 19:50pm Silo G4	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter						
		P.Cowling	1.2	2.4	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.05	0.066	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	
11/12/2021 08:50am Silo H1	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter						
		P.Cowling	1	5.8	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.148	0.152	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	
10/12/2021 12:05pm Silo H3	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter						
		A.Donnelly	0.6	2.6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.091	0.105	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-	

B. GrainCorp - Newcastle fumigant ventilation monitoring data summary: Dec 2021

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: 10

Sampling date (start of ventilation event) and silo number	Pollutant (discharged to air)	Sampler (fumigator)	Result		Limit	Units of measure	Monitoring point location	Exceedance (yes/no)
			Min. value	Max. value	100 percentile (allowable)			
15/12/2021 09:00am Silo H2	<i>Scenario 1</i>							
	Methyl bromide	P.Carpenter A.Donnelly	1.8	6	10	grams per cubic meter	Point 2	no
	Volumetric flow rate	-	0.112	0.114	0.494	meters cubed/ second	Point 2	no
	<i>Scenario 2</i>							
	Methyl bromide	-	-	-	19.4	grams per cubic meter	Point 2	-
	Volumetric flow rate	-	-	-	0.17	meters cubed/ second	Point 2	-
23/12/21 9:30am Silo K1	Phosphine	P.Carpenter A.Donnelly	N/A	60	73	parts per million	Point 2	no
23/12/2021 11:35am Silo J7	Phosphine	P.Carpenter A.Donnelly	N/A	39	73	parts per million	Point 2	no
30/12/2021 3:53am Silo G5	Phosphine	P.Carpenter A.Donnelly	N/A	63	73	parts per million	Point 2	no

MONITORING NOTES:

Scenario 1 is defined as having a fumigation concentration of 10 grams per cubic meter and a one hour initial ventilation period

Scenario 2 is defined as having a fumigation concentration of 19.4 grams per cubic meter and a three hour initial ventilation period