CH475-D240040



Naqeeb Ur Rehman JK Williams Pty Ltd 39-53 Jack Williams Drive, Penrith NSW 2750

iwilliam@jkw.com.au

Re: Dust Monitoring January 2024 - Westlink

Dear Sir.

Compliance Health & Environmental Consulting (CHEC) were engaged by JK Williams Pty Ltd to undertake monthly Depositional Dust Monitoring for the site located at 63 Abbotts Road, Kemps Creek, identified as Lot 11 in DP252503.

Six Dust Deposition Gauges (DDG1-DDG6) were initially installed at representative locations along the Site boundary nearest to sensitive receptors, in accordance with the guidelines provided by AS/NZS 3580.1.1:2016. DDG2 and DDG3 were removed at the end of the October 2023 monitoring period as works were completed in this area. Refer to **Figure 1**-Site layout with sample locations.

The gauges were constructed in accordance with AS/NZ3580.1.1:2016-Methods for sampling and analysis of ambient air. Method 10.1: Determination of particulate matter-deposited matter-Gravimetric method.

A 150mm diameter glass funnel was placed within a 4L glass collection bottle using a rubber stopper with a drain. Each DDG was then placed within a PVC casing for protection and fixed to a star picket on site. Bird protection was constructed on the PVC pipe to prevent birds perching on the funnel. Gauges were placed 2m above ground level. This dust report details results from 8th January to 8th February 2024.

Dust is assessed as insoluble solids as defined by AS 3580.10.1–1991 (AM-19) and is made up of both combustible and non-combustible materials. The obligation to monitor dust relates to the primary activity, being soil disturbance as a result of earthworks, therefore, the non-combustible and dissolved component (generally recognised as mineral salts) are the primary measurements of concern to determine compliance.

The sampling method does not provide real time data, but provides an estimate of the mean surface concentration of deposited matter settling from the air over a period of one month.

The gauges were analysed at a NATA certified laboratory where the collected sediment was weighed and dried to measure particles in the air, less the combustible matter to give total non-combustible material collected in the deposition gauges. The resultant data represents the potential exposure to dust for those receptors, being local residences.

The depositional dust monitoring criteria are as follows:

- Annual average total deposited dust level is 4g/m²/month.
- Maximum monthly increase in deposited dust level is 2g/m²/month



Table 1 indicates that the highest recorded dust concentration was observed at DDG6, having a total solids concentration of 9.7g/m² that included 9.4g/m² of insoluble solids. The insoluble solids contained 8.9g/m² of combustible solids, and 0.4g/m² of noncombustible solids (mineral dust). Refer to **Attachment 1** – NATA Certified Results.

Table 1 – January Dust Deposition Analysis (g/m²/month)

Gauge	Insoluble	Combustible	Non-Combustible	Soluble	Total
DDG1	1.5	1.3	0.1	5.9	7.4
DDG4	5.2	4.8	0.4	0.9	6.1
DDG5	4.5	4.2	0.2	4.9	9.4
DDG6	9.4	8.9	0.4	0.4	9.7

Table 2 indicates that exceedances of the monthly change criteria of $2g/m^2$ were exceeded at DDG5 and DDG6, with increases of $2.2g/m^2$ and $5.7 g/m^2$ respectively. Monthly changes for mineral dust were all compliant with the criteria.

The rolling averages for DDG4 and DDG6 exceeded the criteria of 4 g/m^2 with average concentrations of 6.3 g/m^2 at both locations. The rolling averages for mineral dust remains compliant at all locations.

Table 2 - Monthly Changes and Rolling Averages (g/m²/month)

	Total Dust (AS3	3580.10.1-2016)	Non-Combustible Solids		
Gauge	Monthly ∆	Rolling Avg	Monthly ∆	Rolling Avg	
DDG1	-2.3	2.3	-0.2	0.9	
DDG4	1.4	6.3	0.1	4	
DDG5	2.2	2.1	-0.1	0.7	
DDG6	5.7	6.3	0.2	2.9	
Criteria	2	4			

It is noted that the observed increases in insoluble solids is primarily attributed and increase in combustible solids, which includes pollen and plant matter rather than actual mineral dust. As such, the observed increases are not considered significantly; however, it is recommended that further dust suppression measures are undertaken to suppress the high concentrations.

The prevailing wind for this month was from the west north-west as shown on **Figure 2**. The average wind speed for the month was 4.8km/hr with a maximum of 40.2km/h occurring from the east.

If any further information is required regarding this matter, please feel free to contact the undersigned during business hours.

Regards,

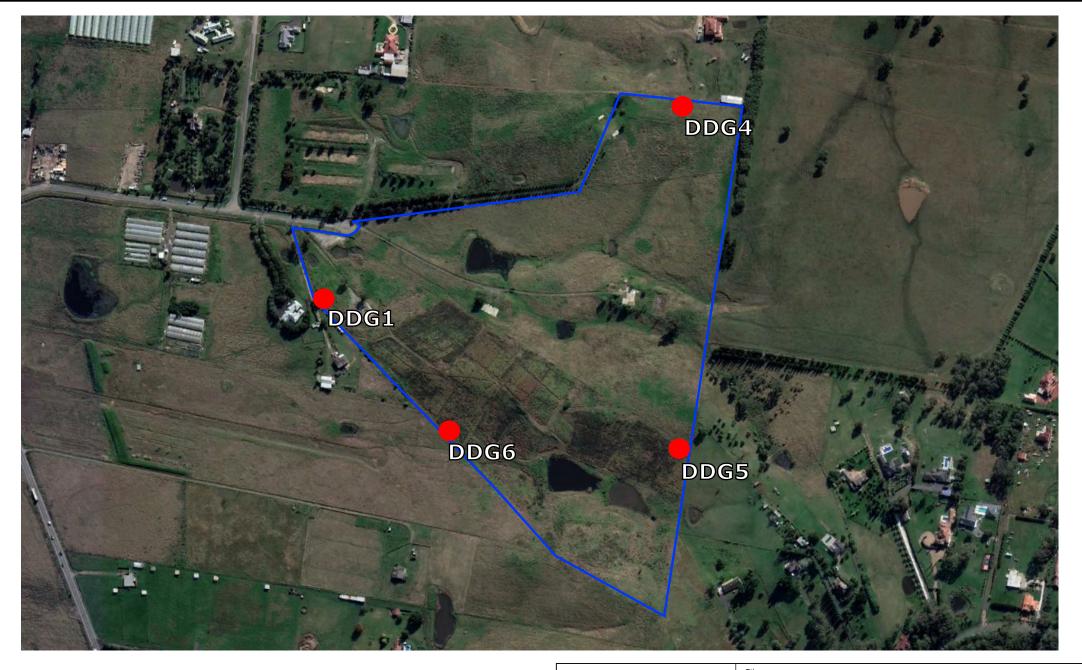
Jayden Gross

Environmental Consultant

Compliance Health & Environmental Consulting Pty Ltd



Figure 1 - Site Layout



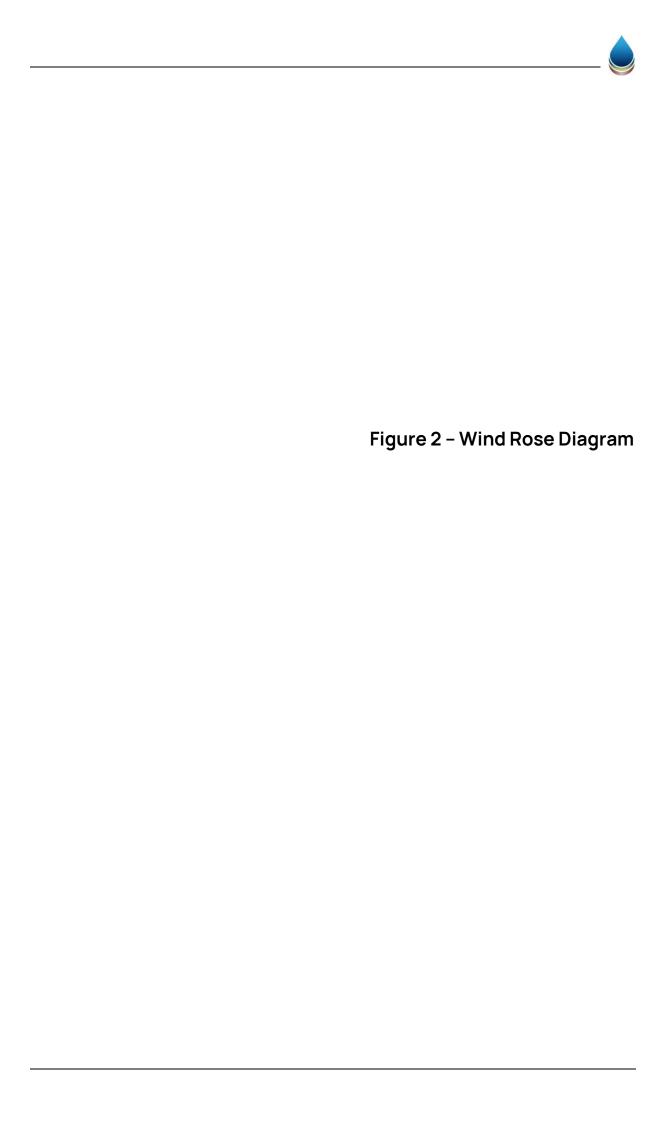


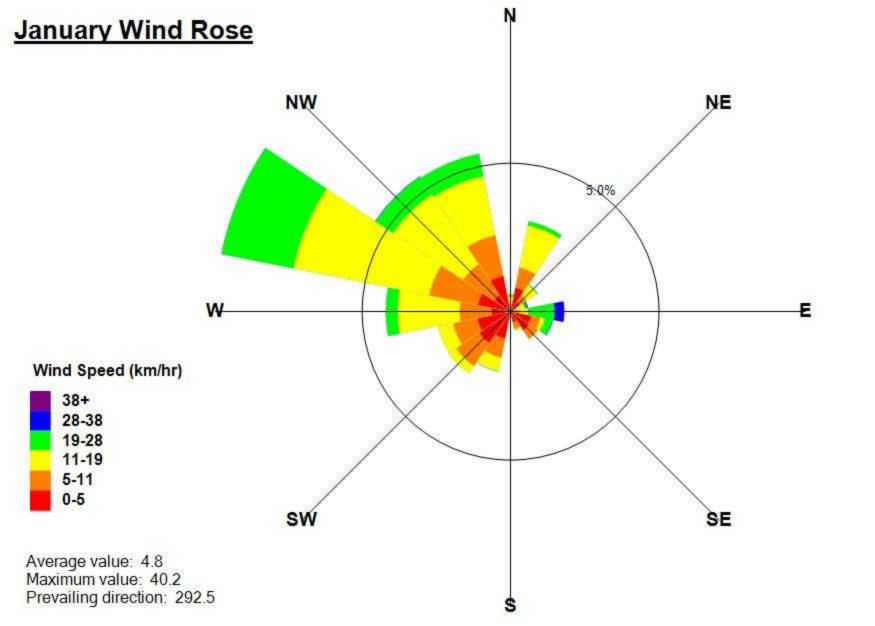
Dust Deposition Gauge Location

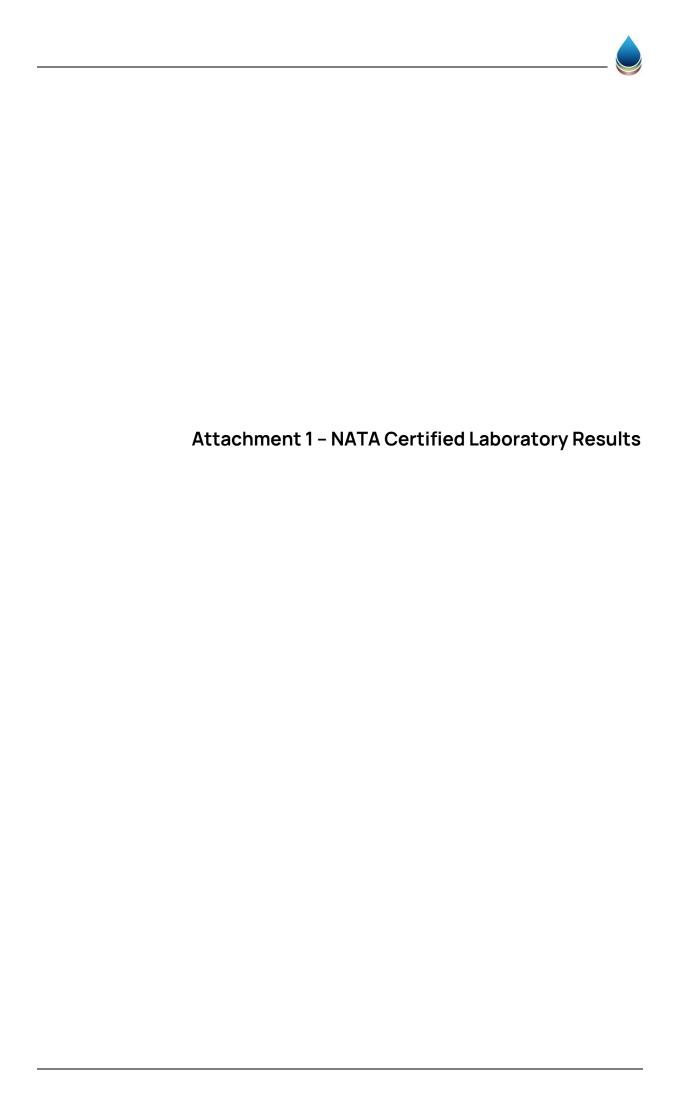
Site Area



Dust Deposition Gauge Locations							
Site Address 63 Abbotts Road, Kemps Creek	Project No. CH1475	rigure ivo.	Date 23/08/2023				
JK Williams Pty Ltd	Scale NTS	Compiled CV	Revision Rev. 1				









CHAIN OF CUSTODY RECORD

#1066949

aboratory Eurolins		Project Ne	475 Semps Creek	Project Manager J. G	Email for Invoice accounts@ccomplianceenviro.com.au
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Environment Testing

Compliance Health & Environmental Consulting P/L PO Box 275 Gosford NSW 2250





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: RESULTS - ALL SRAS HERE ONLY - NO INVOICES

Report 1066949-A
Project name KEMPS CREEK

Project ID 1475

Received Date Feb 08, 2024

Client Sample ID			DDG1	DDG4	DDG5	DDG6
Sample Matrix			Dust Deposition	Dust Deposition	Dust Deposition	Dust Deposition
Eurofins Sample No.			S24-Fe0021889	S24-Fe0021890	S24-Fe0021891	S24-Fe0021892
Date Sampled			Feb 08, 2024	Feb 08, 2024	Feb 08, 2024	Feb 08, 2024
Test/Reference	LOR	Unit				
Dust Deposition						
Combustible Solids	0.1	g/m2/mth	1.3	4.8	4.2	8.9
Soluble Solids	0.1	g/m2/mth	5.9	0.9	4.9	0.4
Total Solids Dried at 103 °C to 105 °C	0.1	g/m2/mth	7.4	6.1	9.4	9.7
Volume (total)*	0.1	mL	1600	1600	1600	1500
Ash*	0.1	g/m2/mth	0.1	0.4	0.2	0.4
Insoluble Solids	0.1	g/m2/mth	1.5	5.2	4.5	9.4



Environment Testing

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

DescriptionTesting SiteExtractedHolding TimeDust DepositionSydneyFeb 09, 20245 Days

- Method: LTM-INO-4160 Determination of Dust Deposition of Ambient Air



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Company Name:

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Compliance Health & Environmental Consulting P/L

PO Box 275 Gosford

NSW 2250

Project Name:

KEMPS CREEK

Project ID:

1475

Order No.:

Report #: Phone:

1066949 02 4304 0091

Fax:

Dust Deposition

Received: Feb 8, 2024 1:20 PM

Due: Feb 15, 2024

Priority: 5 Dav

Contact Name: RESULTS - ALL SRAS HERE

Eurofins Analytical Services Manager: Bonnie Pu

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	DDG1	Feb 08, 2024		Dust Deposition	S24-Fe0021889	х	
2	DDG4	Feb 08, 2024		Dust Deposition	S24-Fe0021890	Х	
3	DDG5	Feb 08, 2024		Dust Deposition	S24-Fe0021891	х	
4	DDG6	Feb 08, 2024		Dust Deposition	S24-Fe0021892	х	
Test Counts							



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request
- 2. All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- 4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- 8. Samples were analysed on an 'as received' basis.
- 9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
- 10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is 7 days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ppm: parts per million μg/L: micrograms per litre ppb: parts per billion %: Percentage

org/100 mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Colour: Pt-Co Units CFU: Colony forming unit

Terms

APHA American Public Health Association CEC Cation Exchange Capacity COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report CRM Certified Reference Material (ISO17034) - reported as percent recovery.

Dry Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

LOR Limit of Reporting.

LCS Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.

RPD Relative Percent Difference between two Duplicate pieces of analysis SPIKE Addition of the analyte to the sample and reported as percentage recovery

SRA Sample Receipt Advice

The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria Surr - Surrogate

Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. TRTO

TCI P Toxicity Characteristic Leaching Procedure TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 5.4

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50% Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 - 150%, VOC recoveries 70 - 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

- 1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data



Environment Testing

Comments

Sample Integrity

 Custody Seals Intact (if used)
 N/A

 Attempt to Chill was evident
 N/A

 Sample correctly preserved
 Yes

 Appropriate sample containers have been used
 Yes

 Sample containers for volatile analysis received with minimal headspace
 Yes

 Samples received within HoldingTime
 Yes

 Some samples have been subcontracted
 No

Authorised by:

Adam Bateup Analytical Services Manager
Dilani Samarakoon Senior Analyst-Inorganic

Glenn Jackson

Managing Director

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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