



**Report: Monthly Dust Deposition Monitoring
June 2026**

Prepared for
RICHARDS BAY CLEAN AIR ASSOCIATION

TEST REPORT: AS1751 46.570

15 June 2026



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Designation: Technical Signatory

Signature:

The Technical Signatory hereby declares that, to the best of his/her knowledge, the analytical data was checked for completeness, the results presented in this report are accurate and legible, and analysis was conducted in accordance with the methods in the approved protocol.

Disclaimer:

1. Sampling was conducted by the SKYSIDE (South Africa) team under supervision of SKYSIDE Technical Signatories.
2. The results contained in this report relate only to the streams tested and to the conditions prevalent during such tests.
3. In certain instances, generally identified, SKYSIDE relied on information provided by third parties. It was not possible to verify all such information independently.
4. The report includes the most pertinent calibration evidence and field data, but further traceability and similar data not considered immediately relevant is available at SKYSIDE offices if required. Signed calibration certificates are available on request.
5. This test report may not be reproduced except in full.
6. SKYSIDE is accredited for compliance with ISO/IEC 17025:2017.
7. Results marked "Not SANAS Accredited" or otherwise marked with # in this report are not included in the SANAS Scope of Accreditation for SKYSIDE.
8. Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.
9. Results marked "Subcontracted Test" or otherwise marked with § in this report are not included in the SANAS Scope of Accreditation for SKYSIDE.

Based on AQS-QLT-REP-002 Rev 06

Date: 14 October 2025

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1 INTRODUCTION

1.1 Scope of Work

SKYSIDE South Africa's understanding of the scope of work at Richards Bay Clean Air Association is as follows:

- SKYSIDE SA changes dust samples on a monthly basis.
- Gravimetric analysis of dust samples by SKYSIDE SA on a monthly basis.
- Reporting of results.

The dust deposition monitoring was based on the ASTM International standard method for collection and analysis of dustfall (ASTM D1739), with certain modifications.

The results presented in this report are compared to the South African National Dust Control Regulation, 2013.

1.2 Glossary / Abbreviations

Measurement Units	
L	Litres
m	Metres
mg/m²/day	Milligrams per metre squared per day
ml	Millilitres
mm	Millimetres

Other	
ISO 17025	International Standard: General requirements for the competence of testing and calibration laboratories.
SANAS	South African National Accreditation System, established by Section 3 of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006.

2 METHODOLOGY

Dustfall monitoring at Richards Bay Clean Air Association began in September 2023. Windblown settleable dust fall-out is monitored based on the ASTM International standard method for collection and analysis of Dustfall (ASTM D1739), with certain modifications. This method employs a simple device consisting of a cylindrical 5 L container half-filled with deionised water exposed for one calendar month (30 ± 3 days). The water is treated with an inorganic algaecide to prevent algal growth in the buckets. The reagent used for this is a 5 % copper sulphate solution.

The bucket stand comprises a ring that is raised above the rim of the bucket to prevent contamination from perching birds (Figure 1). The bucket holder is connected to a 2.1 m galvanised steel pole, which is either directly attached to a fence post or can be attached to a galvanised steel base plate, which is buried to a depth of 500 mm. This allows for a variety of placement options for the fallout samplers. Exposed buckets, when returned to the SKYSIDE SA laboratories, are rinsed with deionised water to remove residue from the sides of the bucket, and the bucket contents filtered through a 1 mm sieve to remove insects and other coarse organic detritus. The sample is then filtered through a pre-weighed paper filter to remove the insoluble fraction, or dust fallout. This residue and filter are dried and gravimetrically analysed to determine the insoluble fraction (dust fallout).



Figure 1: Single bucket monitoring unit, showing a sampling bucket with bird ring and security clamp.

3 STANDARDS FOR DUST DEPOSITION

3.1 National Environmental Management: Air Quality Act, 2004; (Act No. 39 of 2004) National Dust Control Regulations

Table 3: Extract from the National Dust Control Regulations, No. 36974 Government Gazette, 1 November 2013

Restriction Areas	Dustfall rate (D) (mg/m ² /day, 30-days average)	Permitted frequency of exceeding dust fall rate
Residential area	$D < 600$	Two within a year, not sequential months
Non-residential area	$600 < D < 1200$	

The method to be used for measuring Dustfall rate and the guideline for locating sampling points shall be ASTM D1739, or equivalent method approved by any internationally recognized body.

3.2 Residential and non-residential areas

A residential area means any area classified for residential use in terms of local town planning scheme.

A non-residential area means any area not classified for residential use as per local town planning scheme.

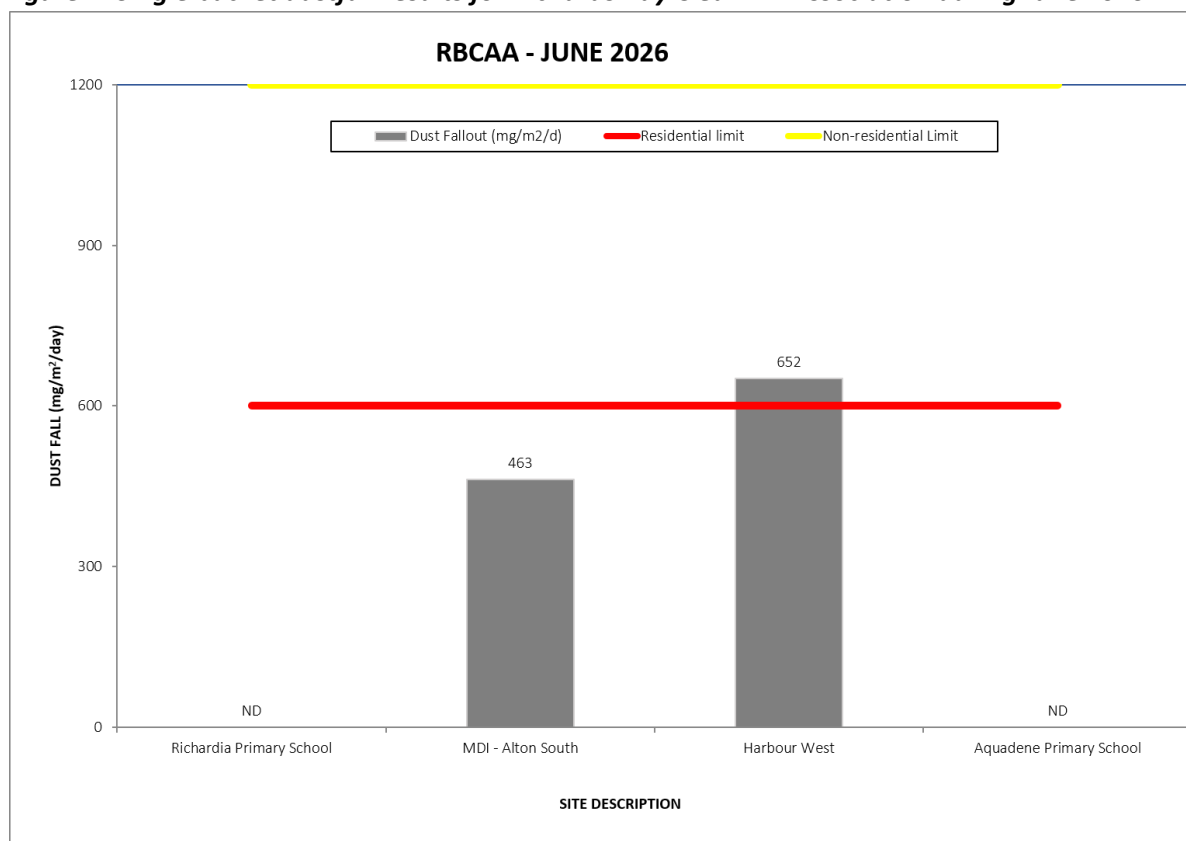
4 RESULTS

4.1 Operational Aspects

The sampling was 04 May – 05 June 2026. Samples were exposed for 32 days; this exposure period complies with the standard operating procedure of 30 ± 3 days. Both Site 01 (Richardia Primary School) and Site 04 (Aquadene Primary School) recorded no data for the period in review, due to the sample buckets being contaminated with organic matter. There were no additional operational problems and a sample return of 50 % was achieved for single buckets.

4.2 Single Bucket Results

Figure 2: Single bucket dustfall results for Richards Bay Clean Air Association during June 2026



ND – No data (Sample was contaminated)

- During the monitoring period in review, Site 03 (Harbour West) recorded the highest dustfall with a rate of 652 mg/m²/day.
- Site 02 (MDI – Alton School) recorded the lowest dustfall with a rate of 463 mg/m²/day.
- Site 01 (Richardia Primary School) and Site 04 (Aquadene Primary School) recorded no data as the samples were contaminated with organic matter.

4.3 Exceedance Reporting

The table below provides information on exceedances from July 2025 to June 2026.

Table 4.3.1: Exceedances for July 2025 to June 2026

Period	Number of sites that have exceeded dust fall limits	Site Description
Current month	0	-
Previous 11 months	3	Site 03 (Harbour West) (1) – July 2025 Site 04 (Aquadene Primary School) (3) – July, September 2025, and February 2026 Site 01 (Richardia Primary School) (2) – March and May 2026
Consecutive months	0	-

Please note that compliance with respect to the National Dust Control Regulations is provisional as the site classifications in terms of these regulations will need to be confirmed by the client by considering the town planning of the area of operation.

4.4 Meteorological Data

SKYSIDE SA is not accredited for the acquisition and reporting of meteorological data. The data has been provided by Richards Bay Clean Air Association at the Arboretum Weather Station. SKYSIDE SA will not take responsibility for any errors that may occur in the acquisition and transmission of data.

Figure 3: Wind rose in Google Earth depicting the wind profile for the period 04 May – 05 June 2026

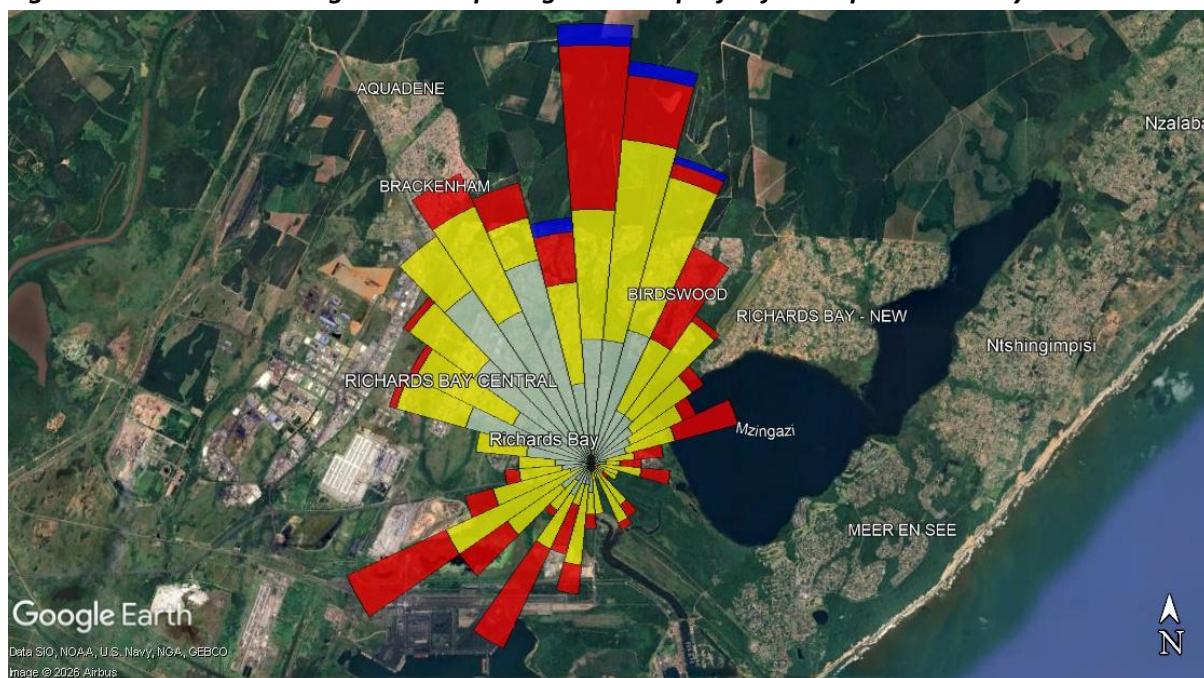
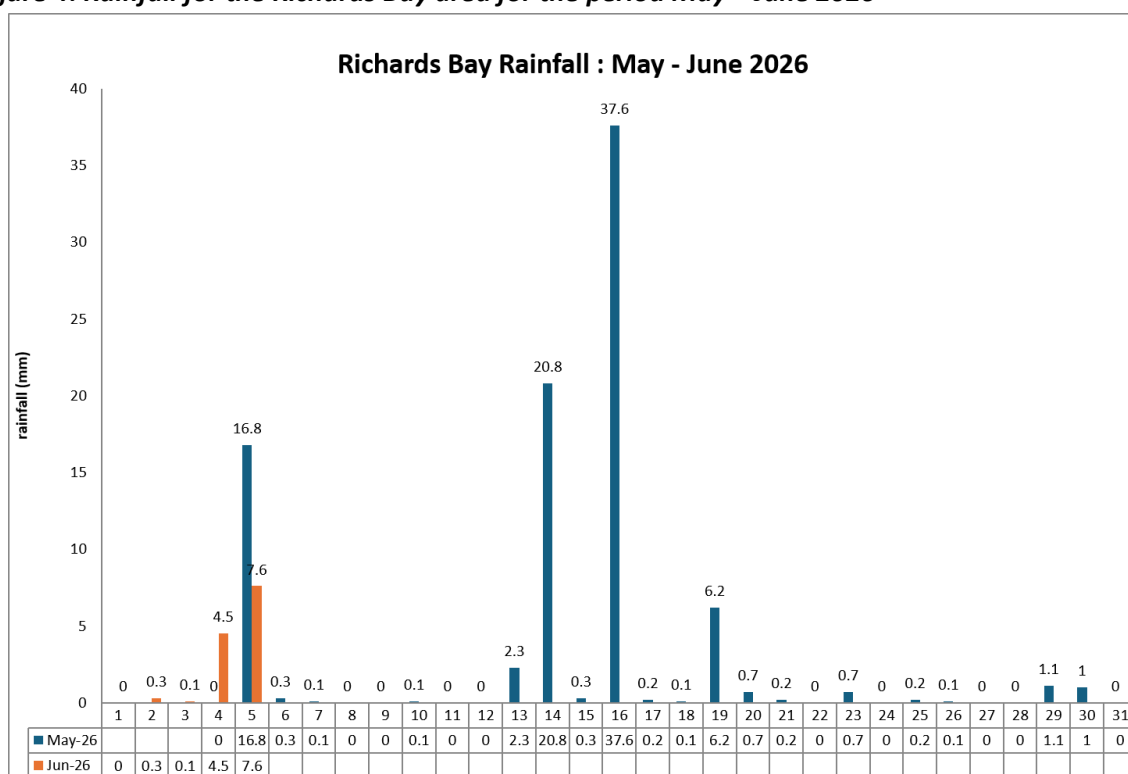


Figure 4: Rainfall for the Richards Bay area for the period May – June 2026



5 CONCLUSION

During the monitoring period in review, all the NON-RESIDENTIAL sites recorded dust fall rates within the NON-RESIDENTIAL threshold. All the RESIDENTIAL sites recorded dust falls within the RESIDENTIAL threshold.

During the monitoring period in review, Site 01 (Richardia Primary School) and Site 04 (Aquadene Primary School) recorded no data, due to the buckets being contaminated with organic matter.

6 APPENDICES

6.1 Appendix 1: Results

RICHARDS BAY CLEAN AIR ASSOCIATION DUSTFALL MONITORING			Month: June 2026 Sampling period: 04 May – 05 June 2026		
SITE DESCRIPTION	SITE CLASSIFICATION	FILTER No.	NETT MASS (mg)	No. DAYS	DUST FALLOUT (mg/m ² /day)
Richardia Primary School	RESIDENTIAL	DA093	-	-	ND
MDI - Alton South	NON-RESIDENTIAL	DA092	336	32	463
Harbour West	NON-RESIDENTIAL	DA086	473	32	652
Aquadene Primary School	RESIDENTIAL	DA091	-	-	ND

ND – No data (Sample was contaminated)

Please note that compliance with respect to the National Dust Control Regulations is provisional as the site classifications in terms of these regulations will need to be confirmed by the client by considering the town planning of the area of operation.

Specific Test Conditions	Samples stored at room temperature prior to analysis. Filters weighed at constant mass
Deviations from Method	None
Measurement Uncertainty	± 5%

Table 1. Dust fall recorded at Richard's Bay Clean Air Association's single bucket sites for the period July 2025 – June 2026

Site	SITE 01	SITE 02	SITE 03	SITE 04	SITE 05	SITE 06
Month	Richardia Primary School	MDI - Alton South	Harbour West	Aquadene Primary School	Lizwi Secondary School	CBD
JUL 25	390	851	1549	1361	189	332
AUG 25	163	537	1002	479	168	258
SEP 25	260	594	290	756	197	498
OCT 25	ND	537	621	338	185	212
NOV 25	ND	455	517	168	166	159
DEC 25	ND	339	578	230	101	154
JAN 26	116	344	377	102	95	ND
FEB 26	311	406	538	834	219	109
MAR 26	748	405	537	488	D/C	D/C
APR 26	145	356	493	ND	D/C	D/C
MAY 26	627	443	614	ND	D/C	D/C
JUN 26	ND	463	652	ND	D/C	D/C

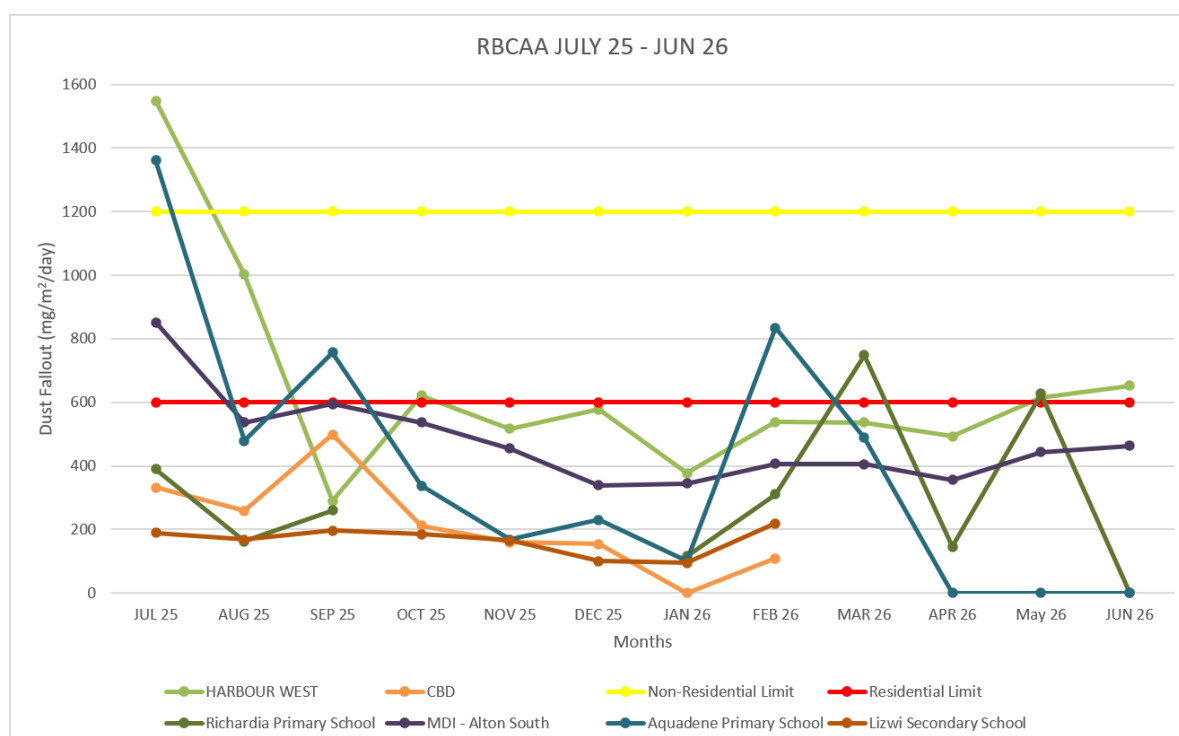
BOLD YELLOW – Non-Residential Exceedance

BOLD RED – Residential Exceedance

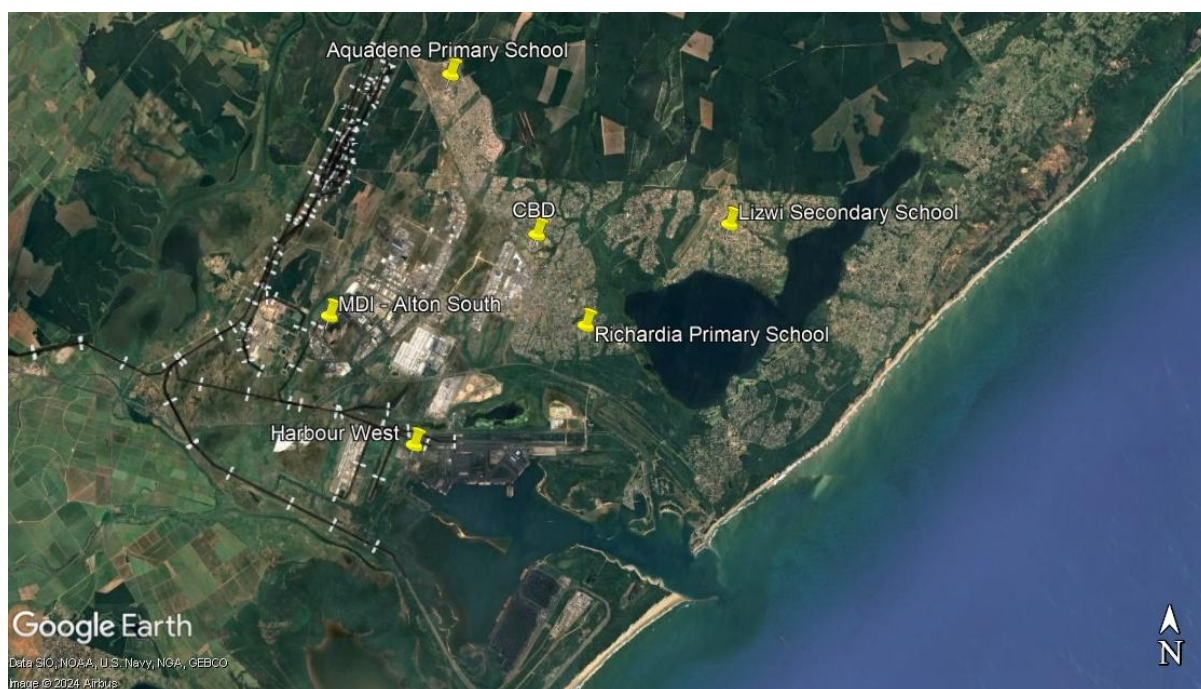
ND – No data due to the sample being contaminated with organic matter

D/C – Decommissioned

Figure 5. Dust fall recorded at Richard's Bay Clean Air Association's single bucket sites for the period JUL 2025 – JUN 2026



6.2 Appendix 2: Sampling Locations



SITE DESCRIPTION	LATITUDE	LONGITUDE
Richardia Primary School	28° 45' 46.5"S	32° 03' 58.1" E
MDI - Alton South	28° 45' 41.2"S	32° 00' 26.2" E
Harbour West	28°47'14"S	32° 1'37"E
Aquadene Primary School	28° 42' 45.9"S	32° 02' 04.6" E
Lizwi Secondary School*	28° 44' 32.2"S	32° 05' 56.2" E
CBD*	28°44'41"S	32°3'17"E

* Decommissioned

6.3 Appendix 3: Non-Exceedance Filters

	
SITE 02 - MDI - Alton South – 463 mg/m²/day	SITE 03 - Harbour West – 652 mg/m²/day

6.4 Appendix 4: Bucket Images



SITE 02 – MDI-Alton South



SITE 03 – Harbour West

Appendix 5: Contaminated Bucket Image



SITE 01 – Richardia Primary School



SITE 04 – Aquadene Primary School

6.6 Appendix 6: Logsheet

	SHEQ MANAGEMENT SYSTEM	Doc. Number: AQS-QLT-FOR-039
	SINGLE BUCKET LOGSHEET (LONG TERM PROJECT)	Revision: 00
		Date Issued: 23 March 2026
		Effective From: 01 April 2026

Date: 05/06/2026
 Month: June
 Operator 1: Lefu Mokoena
 Operator 2: Thabo

Project Name: RBCAA
 Project Code: AS 1751

Site Description	Site Code	Time of Sample Change	Buckets Removed	Bucket Replaced	Remarks
RICHARDIA PRIMARY	SITE01	09:55	DA 093	DA 085	Dead brown water
M.D.I ALTON SOUTH	SITE02	11:50	DA 092	DA 040	water
HARBOUR WEST	SITE03	11:02	DA 086	DA 087	water
AQUADENE SECONDARY SCHOOL	SITE04	09:40	DA 094	DA 096	Pieces of wood and pink colour

Field Officer: Lefu Mokoena
 Total Buckets to Site: 4
 Total Buckets from Site: 8
 No. of Extra Buckets to Site: 0
 Received By: Lefu Mokoena Date: 5/6/26
 Collected By: Thabo Date: 5/6/26
 No. of Extra Buckets from Site:

Any samples Abnormalities? Yes/No (If Yes Describe the Abnormalities and alert Reporter immediately)
Site 01 & Site 04 samples contaminated
 Acknowledgement of Reporter(Name): Lefu Mokoena Signature: [Signature] Date: 5/6/26

	SHEQ MANAGEMENT SYSTEM	Doc. Number: AQS-QLT-FOR-039
	SINGLE BUCKET LOGSHEET (LONG TERM PROJECT)	Revision: 00
		Date Issued: 23 March 2026
		Effective From: 01 April 2026

Laboratory (Filtration, weighing, etc.):
 Total Buckets to Lab: 4
 Received By: Thabo Date: 5/6/26
 Total Buckets / Samples Processed (Filtration & Weighing): 2
 Received By: Thabo Date: 11/6/26

Any samples Abnormalities? Yes/No (If Yes Describe the Abnormalities and alert Reporter immediately)
 Acknowledgement of Reporter(Name): Lefu Mokoena Signature: [Signature] Date: 11/6/26

Comments: (Any description or even that can affect the quality of results)