



In association with **SKYSIDE SOUTH AFRICA**



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

Prepared for

RICHARDS BAY CLEAN AIR ASSOCIATION

TEST REPORT: AS1751 46.370

13 April 2026



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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.

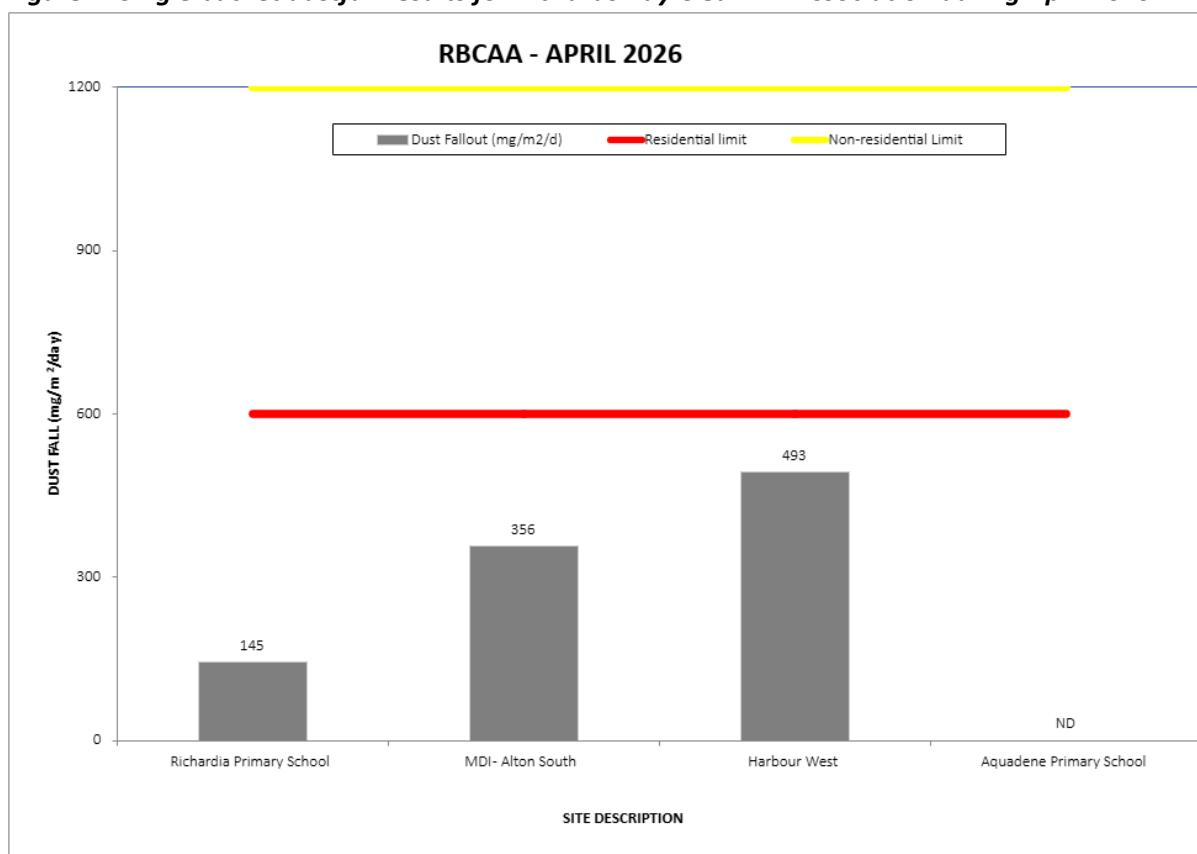
4 RESULTS

4.1 Operational Aspects

The sampling was 05 March – 01 April 2026. Samples were exposed for 27 days; this exposure period complies with the standard operating procedure of 30 ± 3 days. Site 04 (Aquadene Primary School) recorded no data for the period in review, due to the bucket being contaminated with organic matter, emitting a foul smell. There were no additional operational problems and a valid sample return of 75% was achieved for single buckets.

4.2 Single Bucket Results

Figure 2: Single bucket dustfall results for Richards Bay Clean Air Association during April 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 493 mg/m²/day.
- Site 01 (Richardia Primary School) recorded the lowest dustfall with a rate of 145 mg/m²/day.
- Site 04 (Aquadene Primary School)) recorded no data as the sample was contaminated with organic matter

4.3 Exceedance Reporting

The table below provides information on exceedances from May 2025 to April 2026.

Table 4.3.1: Exceedances for May 2025 to April 2026

Period	Number of sites that have exceeded dust fall limits	Site Description
Current month	0	---
Previous 11 months	4	Site 06 (CBD) (1) – June 2025 (Decommissioned February 2026) Site 03 (Harbour West) (2) – June & July 2025 Site 04 (Aquadene Primary School) (3) – June, July, September 2025, and February 2026 Site 01 (Richardia Primary School) (1) – March 2026
Consecutive months	2	Site 03 (Harbour West) - (1) – June - July 2025 Site 04 (Aquadene Primary School) (1) – June - July 2025

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 05 March – 01 April 2026

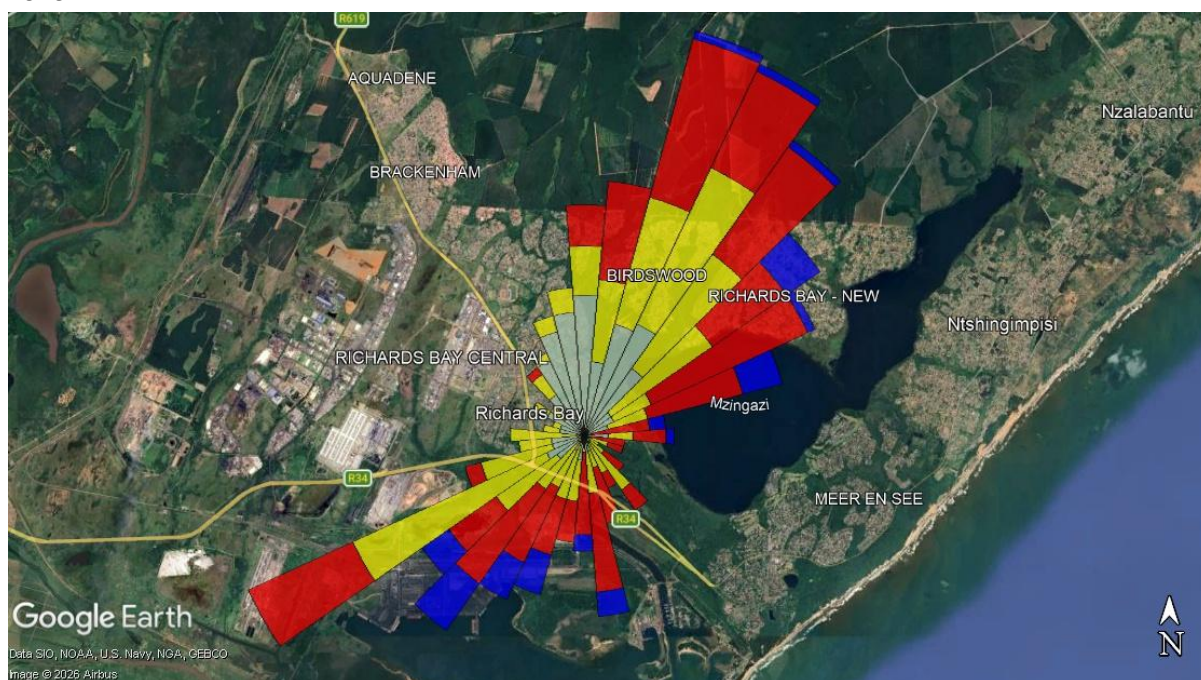
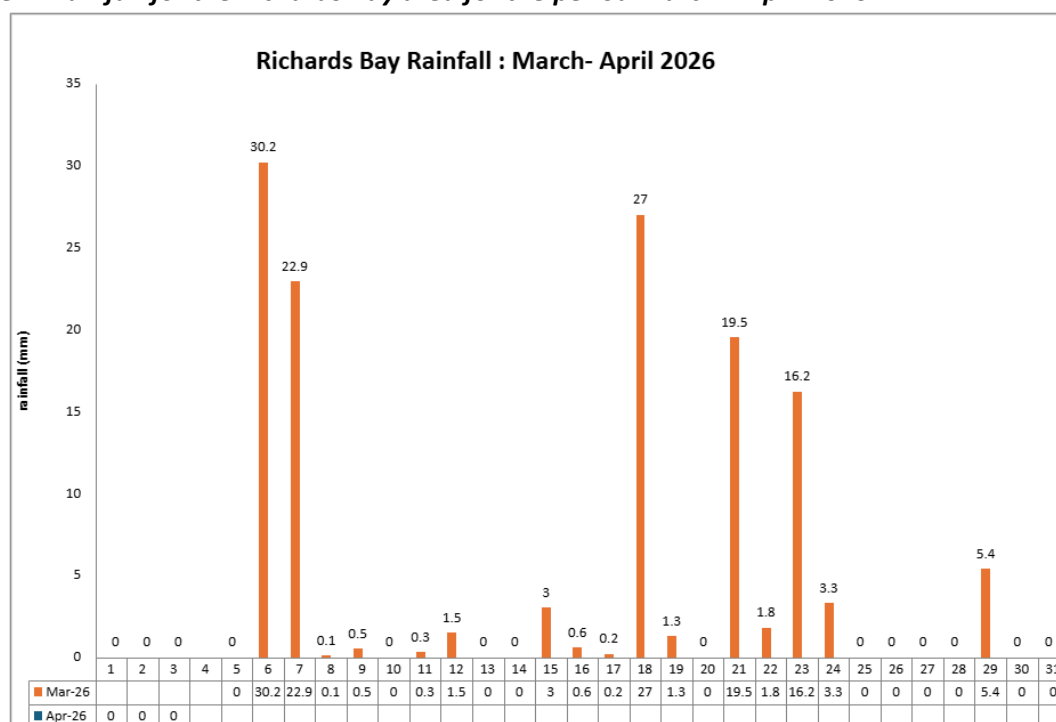


Figure 4: Rainfall for the Richards Bay area for the period March – April 2026



5 CONCLUSION

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

During the monitoring period in review, Site 04 (Aquadene Primary School) recorded no data, due to the bucket being contaminated with organic matter, emitting a foul smell. All the RESIDENTIAL sites recorded dust falls within the RESIDENTIAL threshold.

6 APPENDICES

6.1 Appendix 1: Results

RICHARDS BAY CLEAN AIR ASSOCIATION DUSTFALL MONITORING			Month: April 2026 Sampling period: 05 March – 01 April 2026		
SITE DESCRIPTION	SITE CLASSIFICATION	FILTER No.	NETT MASS (mg)	No. DAYS	DUST FALLOUT (mg/m ² /day)
Richardia Primary School	RESIDENTIAL	DA 090	89	27	145
MDI - Alton South	NON-RESIDENTIAL	DA 095	218	27	356
Harbour West	NON-RESIDENTIAL	DA 086	302	27	493
Aquadene Primary School	RESIDENTIAL	DA 096	-	-	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 May 2025 – April 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
MAY 25	157	496	ND	162	153	310
JUN 25	232	745	1463	1061	181	699
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

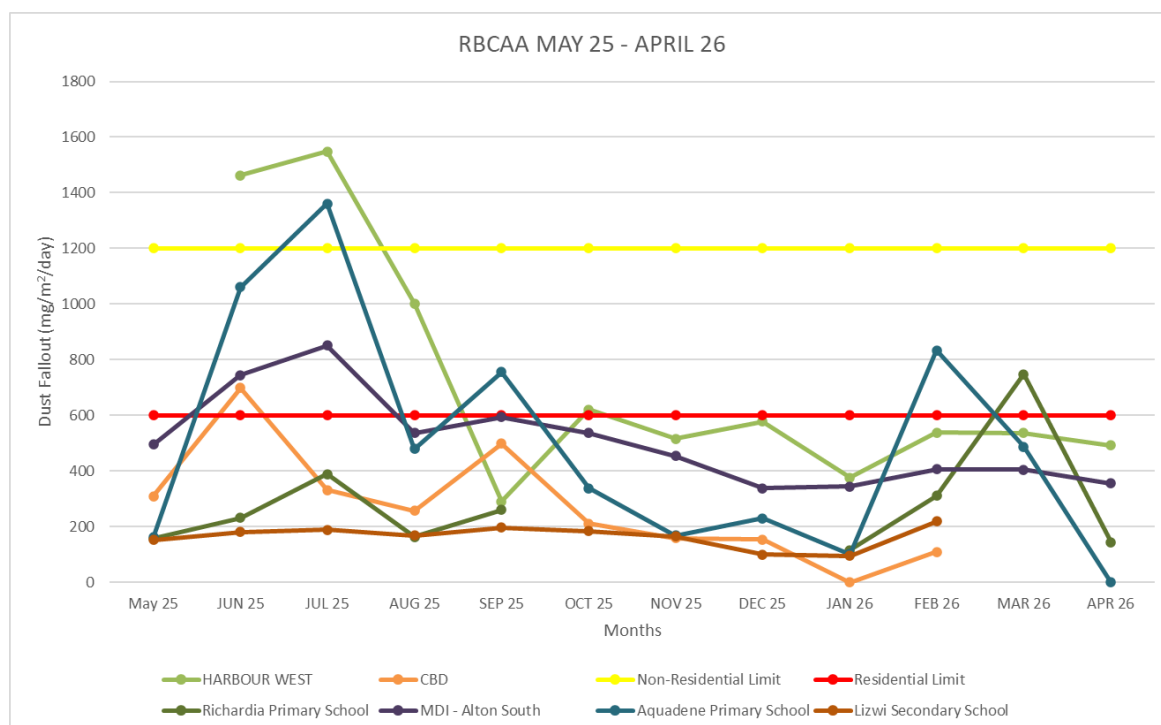
BOLD YELLOW – Non-Residential Exceedance

BOLD RED – Residential Exceedance

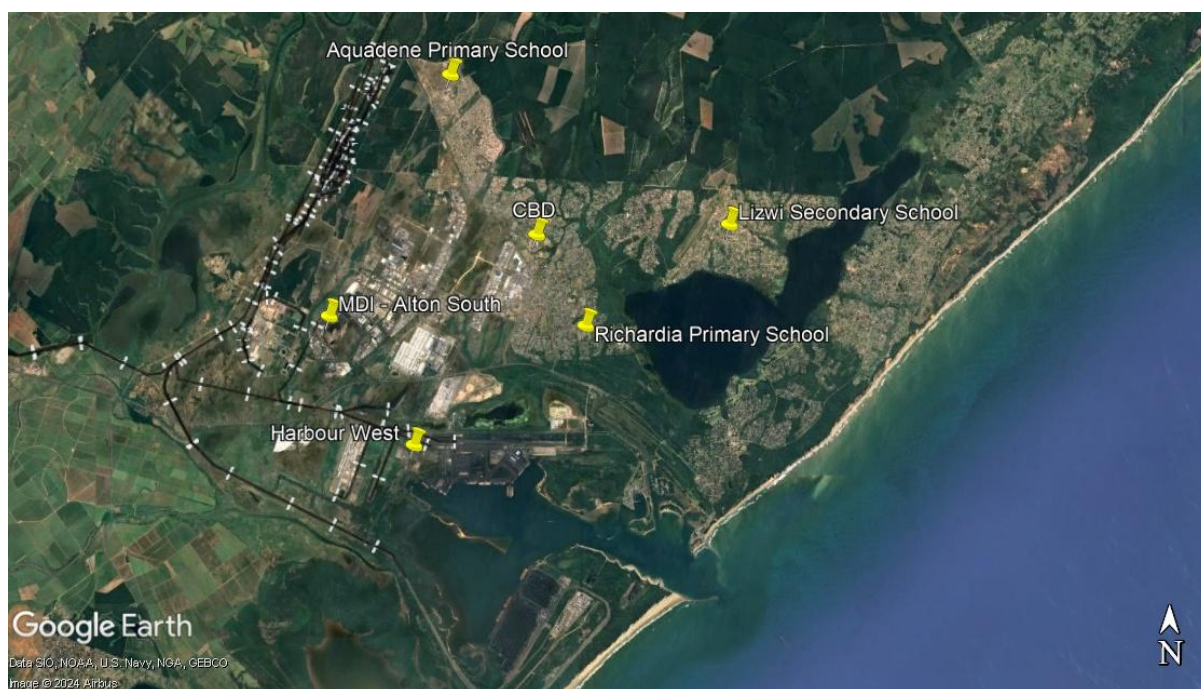
ND – No data due to the sample being contaminated with organic matter

D/C – Decommissioned

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



6.2 Appendix 2: Sampling Locations



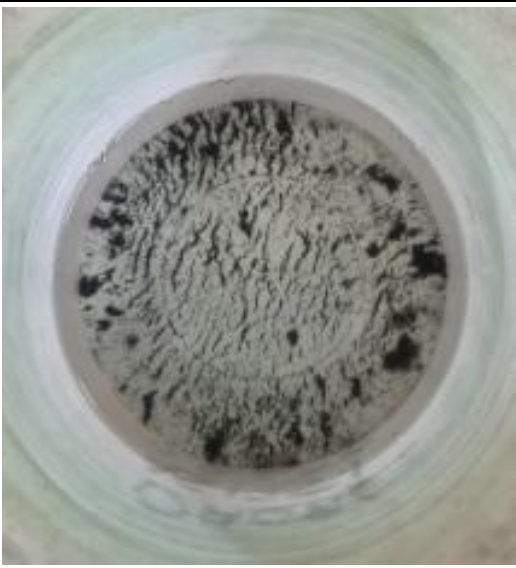
SITE DESCRIPTION	LATITUDE	LONGITUDE
Richardia Primary School	28° 45' 46.5"S	32° 03' 58.1" E
MDI - Alton South	28° 45' 41.2"S	32° 00' 26.2" E
Harbour West	28°47'14"S	32° 1'37"E
Aquadene Primary School	28° 42' 45.9"S	32° 02' 04.6" E
Lizwi Secondary School*	28° 44' 32.2"S	32° 05' 56.2" E
CBD*	28°44'41"S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

* Decommissioned

6.3 Appendix 3: Non-Exceedance Filters

	
SITE 01 - Richardia Primary School – 145 mg/m²/day	SITE 02 - MDI - Alton South – 356 mg/m²/day
	
SITE 03 - Harbour West – 493 mg/m²/day	

6.4 Appendix 4: Bucket Images

	
SITE 01 – Richardia Primary School	SITE 02 – MDI-Alton South
	
SITE 03 – Harbour West	

6.5 Appendix 5: Contaminated Bucket Image



SITE 04 – Aquadene Primary School

