6.1.21 Site 21 – Syferfontein Dam

This site was commissioned in May 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of December 2015 recorded the highest dust fall rate at 69 mg/m²/day, while February 2015 recorded the lowest dust fallout at 11 mg/m²/day.

The results for 2014 are included to show the trend in dust fallout from the previous year. All the months experienced dust fallout equivalent to the 2014 results.

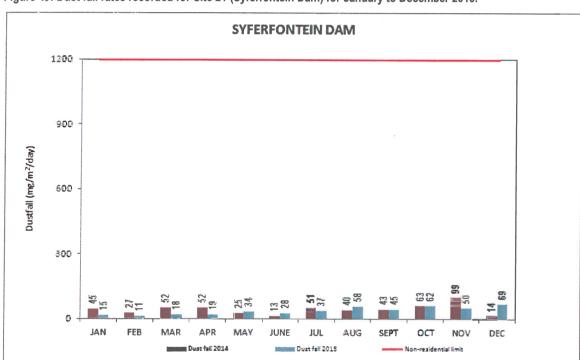


Figure 49: Dust fall rates recorded for Site 21 (Syferfontein Dam) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 98 mg/m²/day, while the lowest dust fall average was recorded in the year 2013 at 35 mg/m²/day.

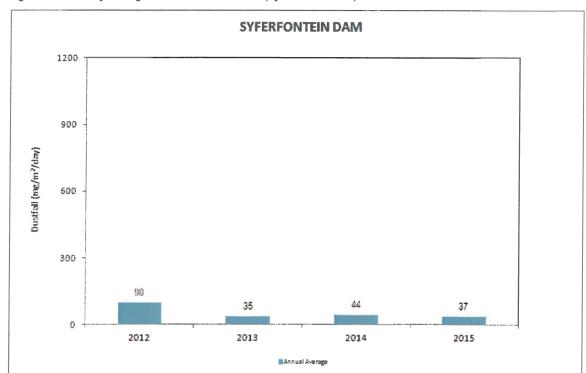


Figure 50: Annually averaged dust fallout at Site 21 (Syferfontein Dam) from 2012 to 2015



6.1.22 Site 22 – Impumelelo West

This site was commissioned in April 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of October 2015 recorded the highest dust fallout at 142 mg/m²/day. April 2015 recorded the lowest dust fall rate at 5 mg/m²/day.

The results for 2014 are included to show the trend in dust fallout from the previous year. All the 2015 months experienced dust fallout equivalent to the 2014 results.

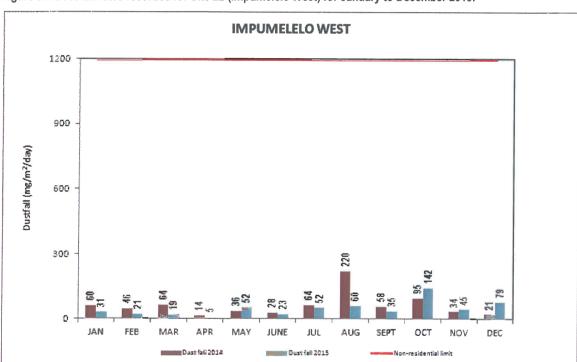


Figure 51: Dust fall rates recorded for Site 22 (Impumelelo West) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 196 mg/m²/day, while the lowest dust fall average was recorded in the year 2015 at 47 mg/m²/day.

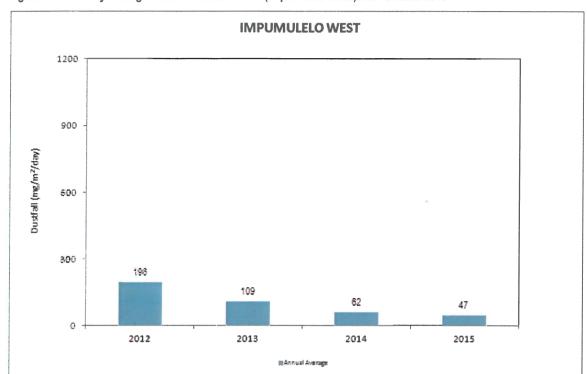


Figure 52: Annually averaged dust fallout at Site 22 (Impumelelo West) from 2012 to 2015



6.1.23 Site 23 – Impumelelo South

This site was commissioned in April 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of January 2015 recorded the highest dust fall rate at 184 mg/m²/day, while September 2015 recorded the lowest dust fallout at 13 mg/m²/day.

February 2015 recorded a significant decrease in dust fallout compared to the 2014 results. All the remaining months recorded dust fallout equivalent to the 2014 results.

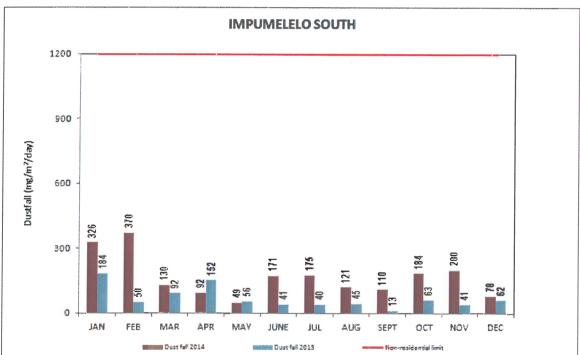


Figure 53: Dust fall rates recorded for Site 23 (Impumelelo South) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 239 mg/m²/day, while the lowest dust fall average was recorded in the year 2015 at 70 mg/m²/day.

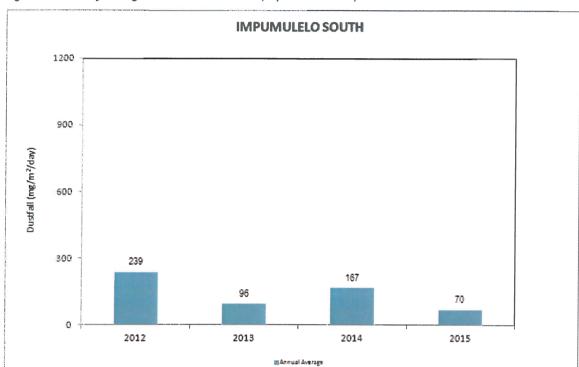


Figure 54: Annually averaged dust fallout at Site 23 (Impumelelo South) from 2012 to 2015



6.1.24 Site 24 – Impumelelo East

This site was commissioned in April 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, there was no data recorded during November 2015 as the sample was contaminated by a dead bird. All the remaining monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The months of May and October 2015 recorded the highest dust fall rate at 73 mg/m²/day, while February 2015 recorded the lowest dust fallout at 4 mg/m²/day.

The results for 2014 are included to show the trend in dust fallout from the previous year. All the 2015 months experienced dust fallout equivalent to the 2014 results.

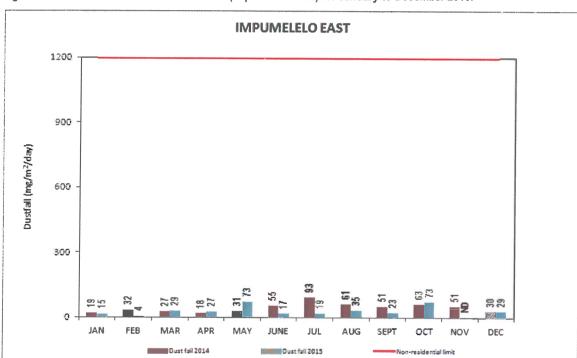


Figure 55: Dust fall rates recorded for Site 24 (Impumelelo East) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 256 mg/m²/day, while the lowest dust fall average was recorded in the year 2015 at 31 mg/m²/day.

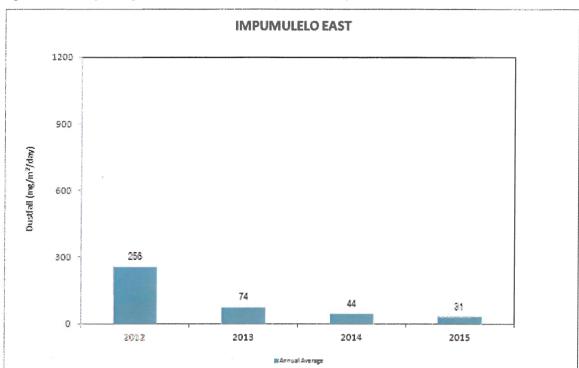


Figure 56: Annually averaged dust fallout at Site 24 (Impumelelo East) from 2012 to 2015



6.1.25 Site 25 – Impumelelo North

This site was commissioned in May 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of October 2015 recorded the highest dust fall rate at 675 mg/m²/day, while February 2015 recorded the lowest dust fallout at 6 mg/m²/day.

October and November 2015 recorded significant increase in dust fallout compared to the 2014 results. All the remaining months recorded dust fallout equivalent to the 2014 results.

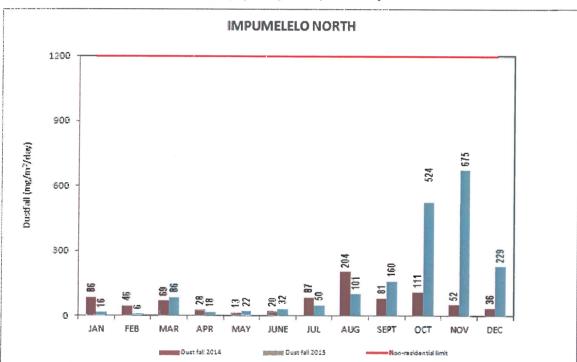


Figure 57: Dust fall rates recorded for Site 25 (Impumelelo North) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 244 mg/m²/day, while the lowest dust fall average was recorded in the year 2014 at 69 mg/m²/day.

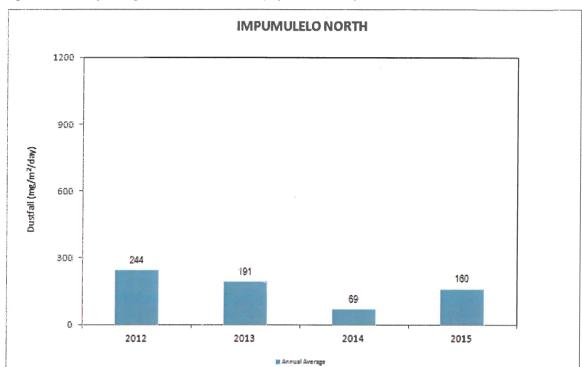


Figure 58: Annually averaged dust fallout at Site 25 (Impumelelo North) from 2012 to 2015



6.1.26 Site 26 – Impumelelo Conveyor

This site was commissioned in October 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of October 2015 recorded the highest dust fall rate at 89 mg/m²/day while the month of January 2015 recorded the lowest dust fall rate at 4 mg/m²/day

The results for 2014 are included to show the trend in dust fallout from the previous year. All the 2015 months experienced dust fallout equivalent to the 2014 results.

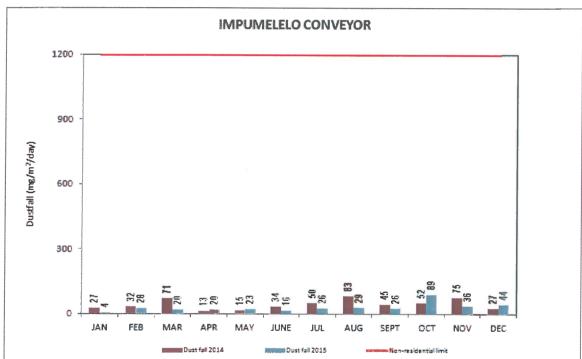


Figure 59: Dust fall rates recorded for Site 26 (Impumelelo Conveyor) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 340 mg/m²/day, while the lowest dust fall average was recorded in the year 2013 at 27 mg/m²/day. There was a significant decrease in dustfall levels between 2012 and 2013.

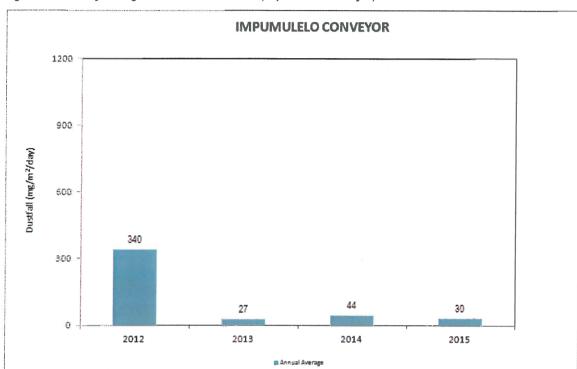


Figure 60: Annually averaged dust fallout at Site 26 (Impumelelo Conveyor) from 2012 to 2015.



6.1.27 Site 27 – Shondoni North

This site was commissioned in October 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 119 mg/m²/day while the month of February 2015 recorded the lowest dust fall rate at 10 mg/m²/day

The results for 2014 are included to show the trend in dust fallout from the previous year. All the 2015 months experienced dust fallout equivalent to the 2014 results.

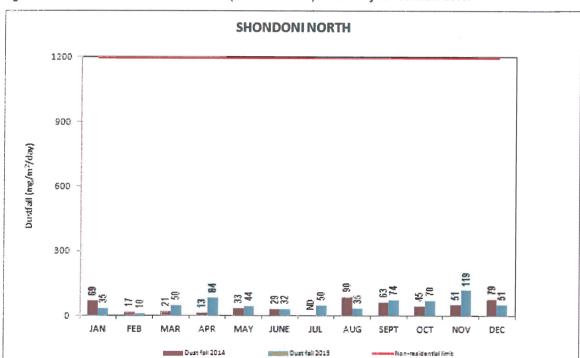
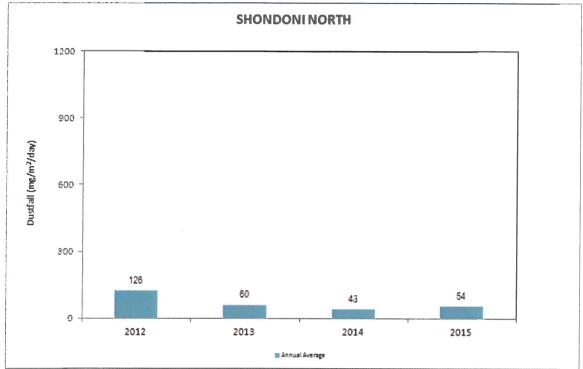


Figure 61: Dust fall rates recorded for Site 27 (Shondoni North) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2012 at 126 mg/m²/day, while the lowest dust fall average was recorded in the year 2014 at 43 mg/m²/day.

Figure 62: Annually averaged dust fallout at Site 27 (Shondoni North) from 2012 to 2015.





6.1.28 Site 28 – Shondoni East

This site was commissioned in October 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 340 mg/m²/day while the month of February 2015 recorded the lowest dust fall rate at 36 mg/m²/day.

The results for 2014 are included to show the trend in dust fallout from the previous year. All the 2015 months experienced dust fallout equivalent to the 2014 results.

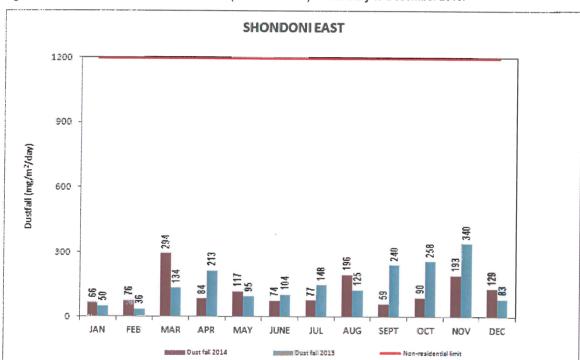


Figure 63: Dust fall rates recorded for Site 28 (Shondoni East) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2013 at 789 mg/m²/day, while the lowest dust fall average was recorded in the year 2012 at 70 mg/m²/day. There was a significant increase in dustfall between 2012 and 2013 followed by a significant decrease in 2014.

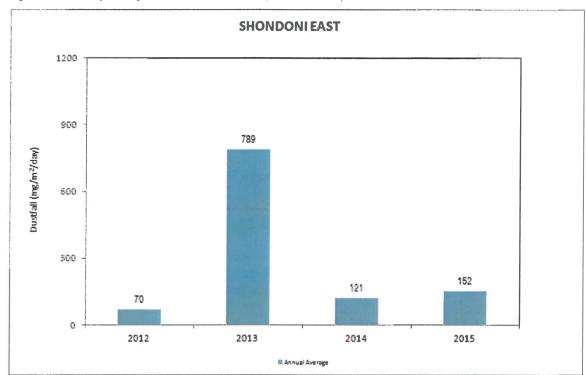


Figure 64: Annually averaged dust fallout at Site 28 (Shondoni East) from 2012 to 2015.



6.1.29 Site 29 – Shondoni South

This site was commissioned in October 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 510 mg/m²/day while the months of January and April 2015 both recorded the lowest dust fall rates at 23 mg/m²/day.

June and August 2015 recorded significant decrease in dust fallout compared to the 2014 results. October 2015 recorded significant increase in dust fallout compared to the 2014 results. All the remaining months recorded dust fallout equivalent to the 2014 results.

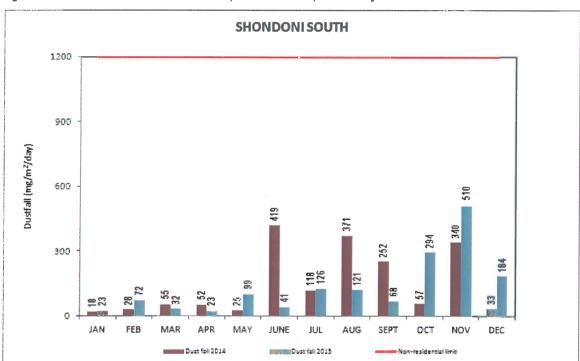


Figure 65: Dust fall rates recorded for Site 29 (Shondoni South) for January to December 2015.



Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2013 at 186 mg/m²/day, while the lowest dust fall average was recorded in the year 2012 at 84 mg/m²/day.

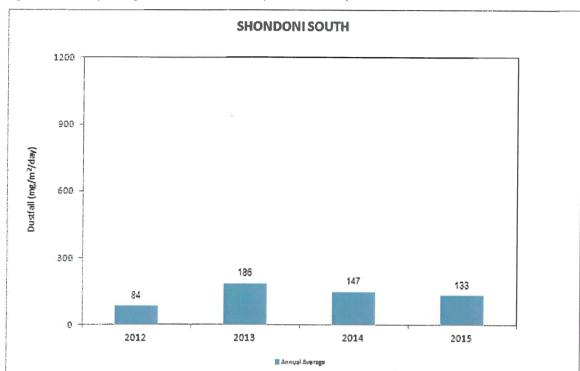


Figure 66: Annually averaged dust fallout at Site 29 (Shondoni South) from 2012 to 2015.



6.1.30 Site 30 - Shondoni West

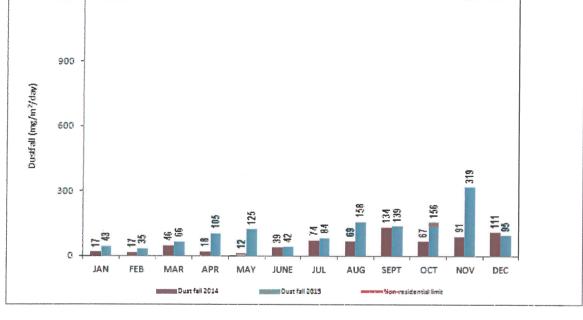
This site was commissioned in October 2012 and is classified as a Non-residential site.

During the monitoring period of January to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 319 mg/m²/day, while February 2015 recorded the lowest dust fallout at 35 mg/m²/day.

November 2015 recorded a significant increase in dust fallout compared to the 2014 results. All the remaining months recorded dust fallout equivalent to the 2014 results.



Figure 67: Dust fall rates recorded for Site 30 (Shondoni West) for January to December 2015.





Annually averaged dust fallout from when monitoring began is shown below. The highest annually averaged dust fallout was recorded in 2015 at 114 mg/m²/day, while the lowest dust fall average was recorded in the year 2012 at 52 mg/m²/day.

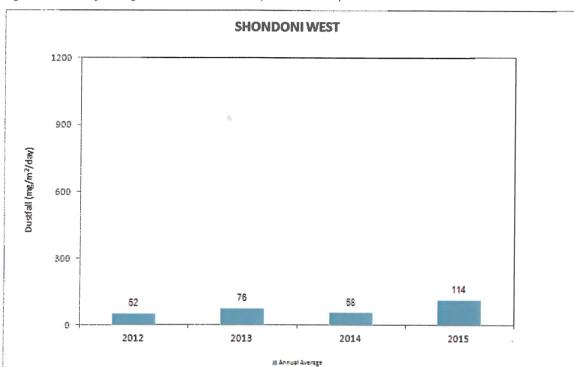


Figure 68: Annually averaged dust fallout at Site 30 (Shondoni West) from 2012 to 2015.



6.1.31 Site 31 – Nitro Dam Wall

This site was commissioned in April 2015 and is classified as a Non-residential site.

During the monitoring period of April to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of December 2015 recorded the highest dust fall rate at 100 mg/m²/day while the month of May 2015 recorded the lowest dust fall rate at 2 mg/m²/day. The annual average dust fallout for 2015 was 40 mg/m²/day

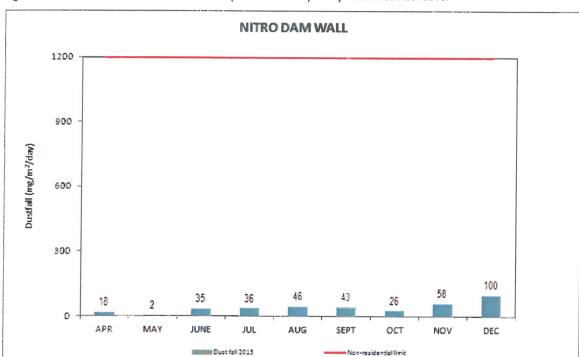


Figure 69: Dust fall rates recorded for Site 31 (Nitro Dam Wall) for April to December 2015.



6.1.32 Site 32 – Nitro Export Entrance

This site was commissioned in April 2015 and is classified as a Non-residential site.

During the monitoring period of April to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 335mg/m²/day while the month of June 2015 recorded the lowest dust fall rate at 33 mg/m²/day. The annual average dust fallout for 2015 was 126 mg/m²/day

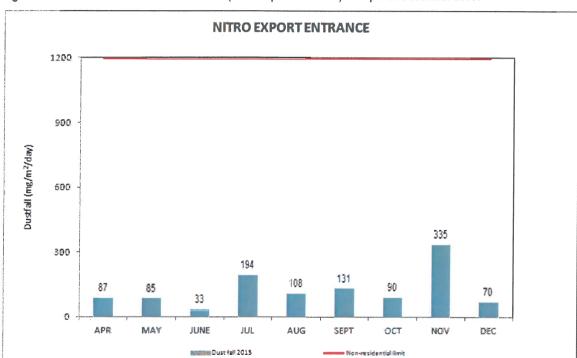


Figure 70: Dust fall rates recorded for Site 32 (Nitro Export Entrance) for April to December 2015.



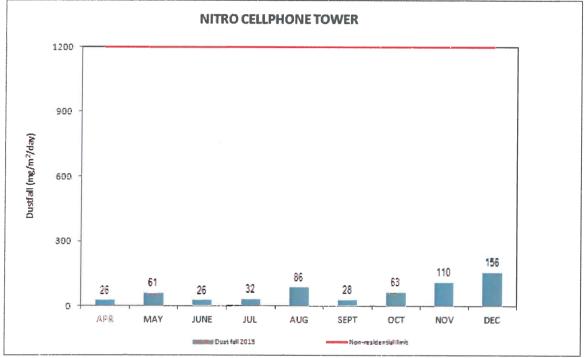
6.1.33 Site 33 – Nitro Cellphone Tower

This site was commissioned in April 2015 and is classified as a Non-residential site.

During the monitoring period of April to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of December 2015 recorded the highest dust fall rate at 156 mg/m²/day while the month of April 2015 recorded the lowest dust fall rate at 26 mg/m²/day. The annual average dust fallout for 2015 was 65 mg/m²/day

Figure 71: Dust fall rates recorded for Site 33 (Nitro Cellphone Tower) for April to December 2015.

NITRO CELLPHONE TOWER





6.1.34 Site 34 – Nitro Explosives Entrance

This site was commissioned in April 2015 and is classified as a Non-residential site.

During the monitoring period of April to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 135 mg/m²/day while the month of July 2015 recorded the lowest dust fall rate at 44 mg/m²/day. The annual average dust fallout for 2015 was 89 mg/m²/day

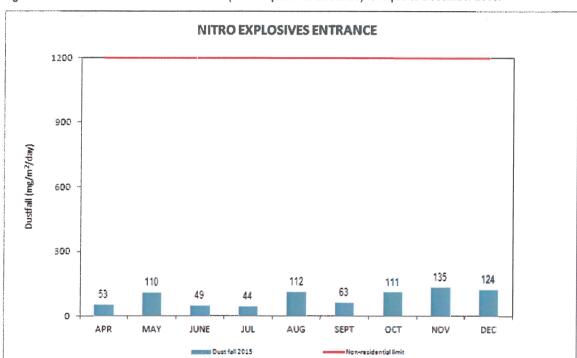


Figure 72: Dust fall rates recorded for Site 34 (Nitro Explosives Entrance) for April to December 2015.



6.1.35 Site 35 – Fine Ash West

This site was commissioned in September 2015 and is classified as a Non-residential site.

During the monitoring period of September to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 102 mg/m²/day while the month of October 2015 recorded the lowest dust fall rate at 48 mg/m²/day. The annual average dust fallout for 2015 was 71 mg/m²/day

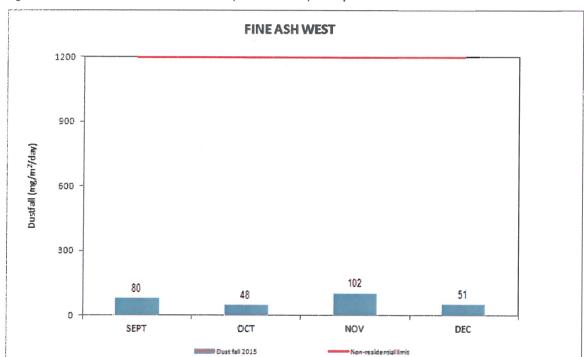


Figure 73: Dust fall rates recorded for Site 35 (Fine Ash West) for September to December 2015.



6.1.36 Site 36 – Fine Ash West 1

This site was commissioned in September 2015 and is classified as a Non-residential site.

During the monitoring period of Septemberto December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 226 mg/m²/day while the month of September 2015 recorded the lowest dust fall rate at 117 mg/m²/day. The annual average dust fallout for 2015 was 169 mg/m²/day

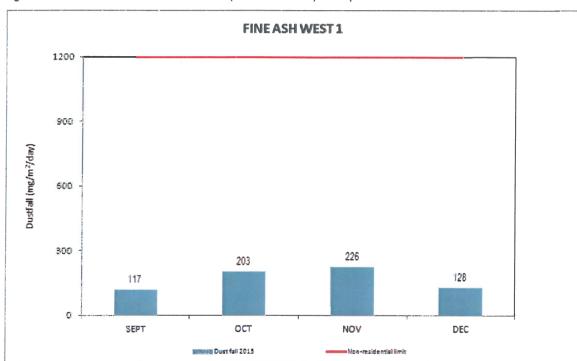


Figure 74: Dust fall rates recorded for Site 36 (Fine Ash West 1) for September to December 2015.



6.1.37 Site 37 – Fine Ash West 2

This site was commissioned in September 2015 and is classified as a Non-residential site.

During the monitoring period of September to December 2015, all the monitoring months recorded dust fallout below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fallout at 781 mg/m²/day. December 2015 recorded the lowest dust fallout at 114 mg/m²/day. There was a significant increase in dust fall between October and November 2015 and a significant decrease between November and December 2015. The annual average dust fallout for 2015 was 355 mg/m²/day

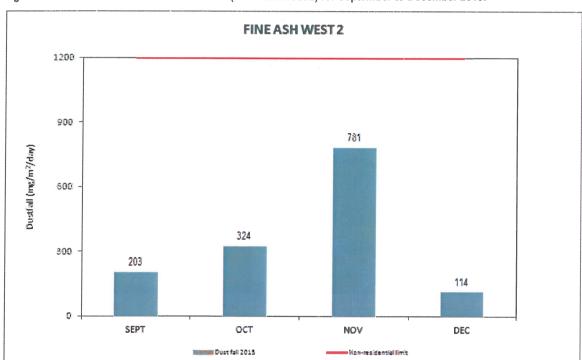


Figure 75: Dust fall rates recorded for Site 37 (Fine Ash West 2) for September to December 2015.



6.1.38 Site 38 – Coal Separation East

This site was commissioned in September 2015 and is classified as a Non-residential site.

During the monitoring period of September to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 229 mg/m²/day while the month of September 2015 recorded the lowest dust fall rate at 71 mg/m²/day. The annual average dust fallout for 2015 was 123 mg/m²/day

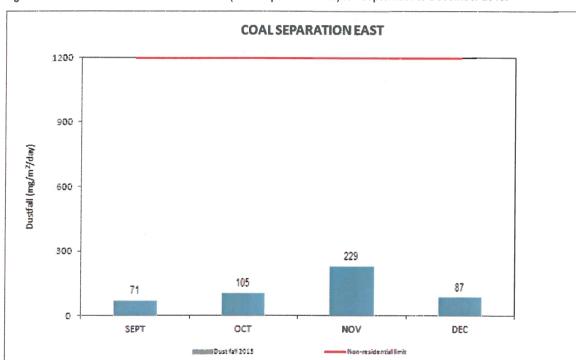


Figure 76: Dust fall rates recorded for Site 38 (Coal Separation East) for September to December 2015.



6.1.39 Site 39 – Coal Separation West

This site was commissioned in September 2015 and is classified as a Non-residential site.

During the monitoring period of September to December 2015, all the months recorded dust fall rates below the NON-RESIDENTIAL threshold limit. The month of November 2015 recorded the highest dust fall rate at 217 mg/m²/day while the month of October 2015 recorded the lowest dust fall rate at 63 mg/m²/day. The annual average dust fallout for 2015 was 126 mg/m²/day

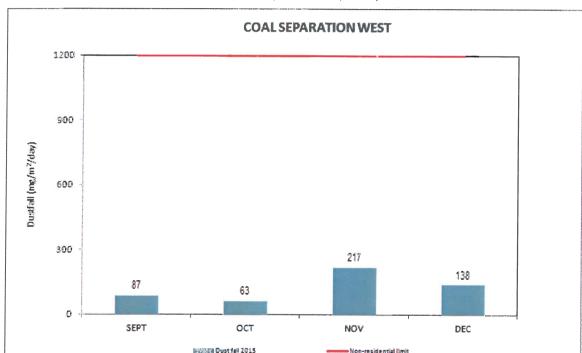


Figure 77: Dust fall rates recorded for Site 39 (Coal Separation East) for September to December 2015.



6.2 Temporal averages in dust fall rates

Temporal-averages dust fall rates for all stations for the January to December 2015 period are presented in Figure 78. The averaging of dust fall levels across all the Sasol Secunda sampling sites facilitates an easier analysis of the overall seasonal trends in dust fall levels.

The highest temporal average was recorded in November 2015 at 215 mg/m²/day while February 2015 recorded the lowest temporal average at 26 mg/m²/day. All the months recorded temporal averages equivalent to the 2014 dust fallout.

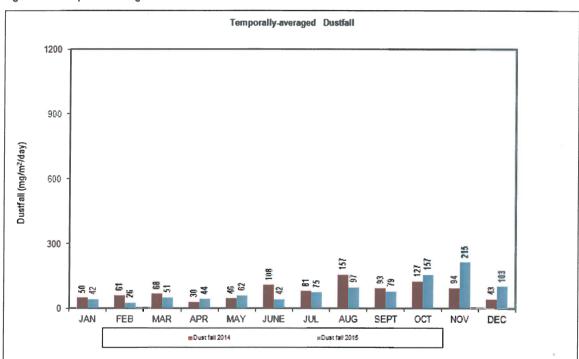


Figure 78: Temporal Average Variations in dust fall rates.



6.3 Annual averages in dust fall rates

Annual average dust fall rates observed at each of the Sasol Secunda single bucket sites during January to December 2015 are given in Figure 79.

Fine Ash West 2 recorded the highest annual average at 355 mg/m²/day. Game Park recorded the lowest annual average at 20 mg/m²/day. All the sites recorded 2015 annual averages equivalent to the 2014 results.

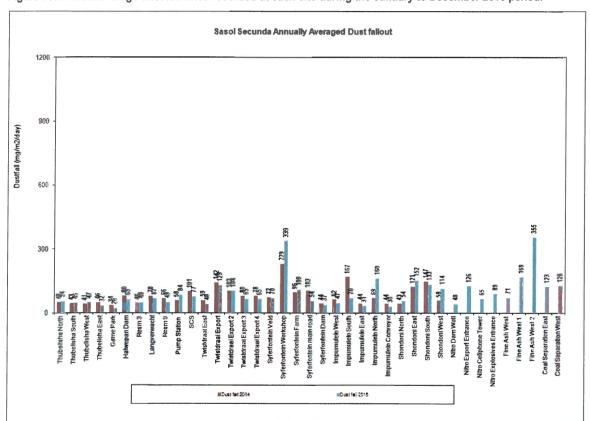


Figure 79: Annual average dust fall rates recorded at each site during the January to December 2015 period.



7 METEOROLOGICAL DATA*

7.1 Analysis of Meso-Scale Meteorological Data

The wind field and the intensity and frequency of occurrence of precipitation represent the most important meteorological parameters influencing emissions, dispersion and deposition of fugitive dust. Hourly average wind data and rain fall was obtained from the Sasol Secunda Weather station for the period under review.

SGS is not accredited for the acquisition and reporting meteorological data. The data has been provided by Sasol Secunda personnel and is reported as such. SGS will not take responsibility for any errors that may occur in the acquisition and transmission of data.

7.1.1 Surface Wind Field Analysis

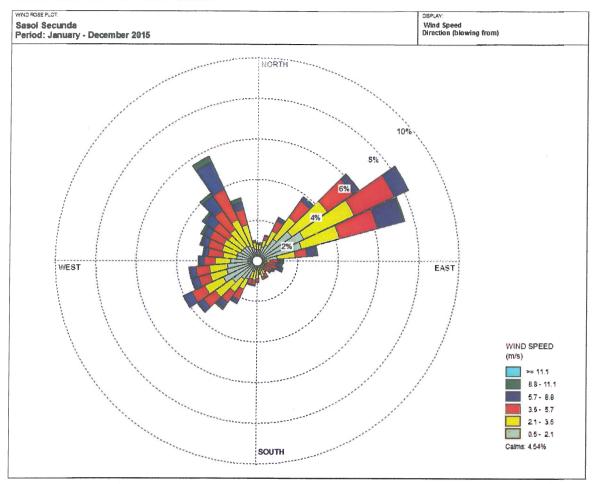
The erosion and vertical dispersion of dust is a function of the wind field. The wind speed determines the dust generation potential, the distance of downwind transport, and the rate of dilution of pollutants. The generation of mechanical turbulence is similarly a function of the wind speed, in combination with the surface roughness.

Period average and monthly average wind roses for the January to December 2015 interval are given in Figure 80. The colours reflect the different categories of wind speeds; thus light green represents wind speeds between 0.5 to 2.1 m/s, yellow represents winds of 2.1 to 3.6 m/s, red represents 3.6 to 5.7 m/s, blue represents 5.7 to 8.8 m/s, green represents 8.8 to 11.1 m/s and light blue represents winds greater than 11.1 m/s. The dashed circles represent the frequency of occurrence of wind speed and direction categories. Wind speeds higher than 4 m/s will have an influence on dust mobility and are thus the winds of concern with respect to dust concentrations. The threshold wind speed (minimum speed required to transport dust particles) depends on the dust particle size.

Note: *Results marked "Not SANAS Accredited" in this report are not included in the SANAS Schedule of Accreditation for this laboratory.



Figure 80: Period average wind rose for the January to December 2015 monitoring period, based on wind field data from the Sasol Secunda Weather Station.



Over the annual period, winds in the Sasol Secunda region blew predominantly from the North East, with secondary winds from the North West.

Higher speed winds between 8.8 and 11.1m/s were from North West.



Figure 81: Monthly wind roses for Sasol Secunda for the period January to June 2015.

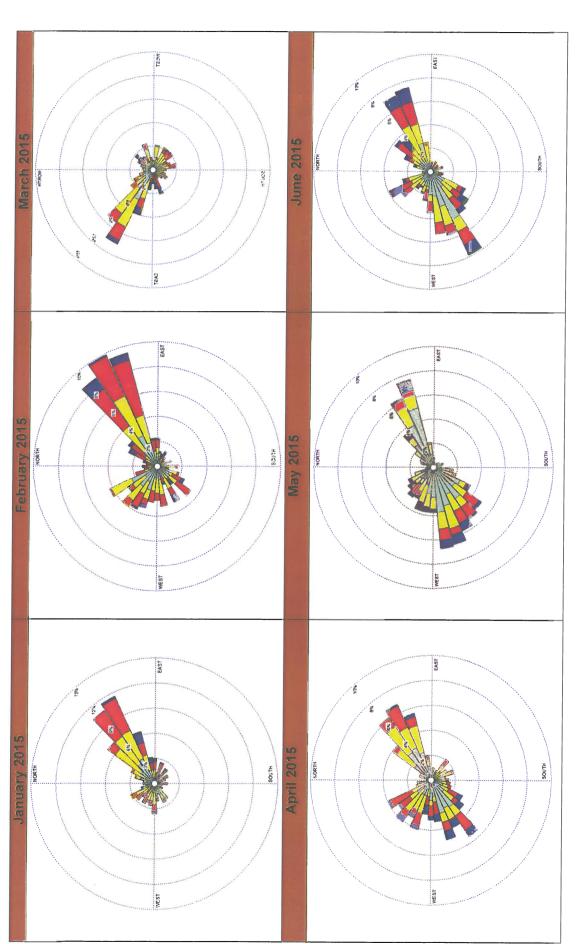




Figure 82: Monthly wind roses for Sasol Secunda for the period July to December 2015.





7.1.2 Precipitation*

Precipitation is important to air pollution studies since it represents an effective removal mechanism of atmospheric pollutants and inhibits dust generation potentials. Rainfall data was obtained from the Sasol Secunda weather station for the period under review. The cumulative rainfall is represented in Figure 83.

A total annual rainfall of 405 mm was calculated for the January to December 2015 monitoring period. No rainfall was recorded for May and August 2015. The highest rainfall experienced was during the month of January 2015 at 101 mm.

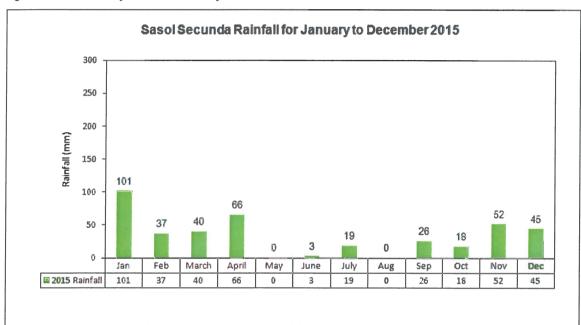


Figure 83: Total Monthly rainfall for January to December 2015.

Note: *Results marked "Not SANAS Accredited" in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

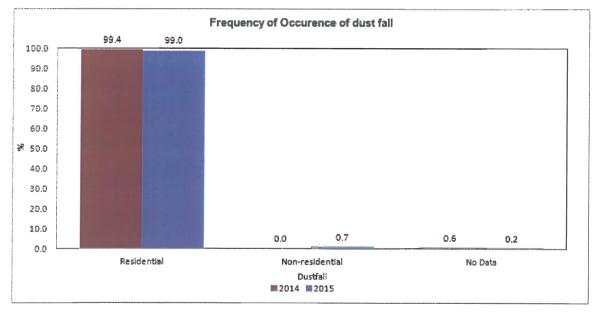


6 CLASSIFICATION OF RESULTS

Results obtained from the thirty nine single-bucket dust-monitors situated at Sasol Secunda for the period January to December 2015 are presented in the report. A synopsis of the frequency of occurrence of various categories of dust fall rates, based on samples collected for the single-bucket monitoring sites for the monitoring period in review is given in Figure 84.

Majority of dust falls for the period in review occurred within the RESIDENTIAL category at 99%. There were three occurrences of the NON-RESIDENTIAL category which accounted for 0.7% of the total during the monitoring period in review. The samples which recorded NO DATA accounted for 0.2% of the total during the monitoring period in review.

Figure 84: Synopsis of frequency of occurrence of RESIDENTIAL, NON-RESIDENTIAL dustfall and No Data, recorded during the 2014 and 2015 period.





8 CONCLUSIONS AND RECOMMENDATIONS

The results obtained from the thirty nine dust-monitoring sites situated at Sasol Secunda were presented and discussed for the period January to December 2015. Sample contamination by a dead bird was encountered on one occasion which resulted in data availability amounting to 99%.

The recommended sampling period of 30 ± 3 days was adhered to throughout the monitoring period of January to December 2015.

Dust fallout during the monitoring period was mostly below the RESIDENTIAL threshold limit. All the monitoring months recorded temporal average dust fall rates within the RESIDENTIAL range. Annually averaged dust fallout was also below the RESIDENTIAL threshold limit.

Majority of dust fall for the period in review were characterised by the RESIDENTIAL dust fall category.

It is recommended that the current sampling sites be retained for a further year. If there are additional sensitive locations (new operations or complaints), these should be indicated to SGS so that additional monitoring sites may be recommended, if appropriate.



APPENDIX 1 Results from May 2012 to December 2015



Pump Station	146	132	39	338	45	435	163	27
Resm 9	346	118	355	326	503	314	97	20
Langverwa	88	65	149	238	64	219	101	152
Resm 3	38	31	35	156	113	261	122	21
Halve pan Dam	304	83	299	445	229	315	92	85
Game Park	230	29	183	227	140	171	99	25
Thubelisha	QN	58	341	450	242	406	113	ND
Thubelisha West	Q	204	303	363	QN	QN	91	34
Thubelisha South	QN	139	154	361	37	136	139	1
Thubelisha	QN	188	244	272	QN	QN	123	26
2012	May	June	July	Aug	Sep	Oct	Nov	Dec

Syferfontein	main road		109	277	QN	130	102	47	15
Syferfontein	Farm		45	282	424	179	170	48	39
Syferfontein	Workshop		30	202	379	316	310	226	76
Syferfontein	Veld		164	57	210	164	97	278	6
Twistdraai	Export 4							140	41
Twistdraai	Export 3							80	22
Twistdraai	Export 2							175	22
Twistdraai	Export	486	214	414	319	85	284	75	31
Twistdraai	Mine	26	65	72	418	6	176	220	78
808		44	QN	65	255	64	702	251	112
2012		May	June	July	Aug	Sep	Oct	Nov	Dec



SASOL SECUNDA Annual report Dust Deposition Monitoring

-			_			_		1	
Shondoni	West							52	53
Shondoni	South							151	17
Shondoni	East							66	42
Shondoni	North							242	10
Impumulelo	Conveyor							340	QN
Impumulelo	North	298	231	545	203	165	225	264	21
Impumulelo	East	458	320	314	137	207	378	225	10
Impumulelo	South	386	192	289	192	225	352	248	24
Impumulelo	West	242	72	212	285	209	285	246	16
Syferfontein	Dam		75	36	209	136	09	146	22
2012	1	May	June	July	Aug	Sep	Oct	Nov	Dec

												-
Pump Station	21	16	82	16	49	62	47	147	138	158	QN	*41
Resm 9	23	15	53	34	74	71	45	38	37	82	67	43
Langverwa	122	13	77	77	41	50	69	150	54	85	63	39
Resm 3	35	18	44	51	22	98	31	56	10	224	16	∞
Halvepan	14	17	27	25	86	28	24	42	65	107	58	12
Game Park	20	29	26	39	12	13	30	22	21	51	46	20
Thubelisha	10	12	31	83	194	308	163	89	91	73	888	18
Thubelisha West	82	18	46	16	21	18	34	24	34	166	49	71
Thubelisha South	23	21	33	17	48	63	29	67	36	74	35	32
Thubelisha	41	21	32	41	17	51	33	49	40	717	91	11
2013	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec



		1											
Syferfontein	main road	28	12	45	18	38	71	23	26	84	87	34	30
Syferfonte	in Farm	13	21	66	14	27	90	179	98	72	31	198	22
Syferfontein	Workshop	150	19	69	43	82	216	154	343	46	391	103	163
Syferfontein	Veld	35	12	09	47	62	81	48	72	106	45	111	41
Twistdraai	Export 4	56	92	55	42	44	32	71	81	29	122	99	35
Twistdraai	Export 3	27	14	41	21	22	48	52	39	72	134	24	53
Twistdraai	Export 2	116	64	49	19	37	22	27	93	85	104	48	09
Twistdraai	Export	139	26	692	68	99	138	123	151	75	409	97	52
Twistdraai	Mine	44	22	59	33	30	149	26	468	112	248	26	1129
808	3	109	93	89	24	22	34	45	196	361	143	112	61
2013		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec



SASOL SECUNDA Annual report Dust Deposition Monitoring

						T	T	1		T			T
Shondoni	West	22	21	61	30	88	51	282	99	58	125	78	35
Shondoni	South	22	70	29	0	16	30	240	195	298	1200	95	21
Shondoni	East	52	196	64	73	170	45	6578	QN	QN	343	359	12
Shondoni	North	59	24	63	39	33	22	136	42	98	130	29	61
Impumulelo	Conveyor	11	16	24	16	19	20	QN	QN	ND	09	47	30
Impumulelo	North	352	202	359	123	116	72	465	220	52	189	121	27
Impumulelo	East	4	6	48	20	49	51	67	32	503	44	36	23
Impumulelo	South	21	74	29	41	118	54	325	126	80	06	126	64
Impumulelo	West	757	18	64	20	24	24	155	32	50	62	55	43
Syferfontein	Dam	15	13	37	15	38	37	22	22	58	46	56	24
2013		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec

Pump	Station	13	24	46	36	27	170	39	91	30	143	63	1	
	Resm 9	101	101	40	28	81	108	53	52	09	81	54	38	
Langverwa	cht	167	31	35	18	16	99	74	111	93	170	121	33	
(Kesm 3	10	17	53	80	44	58	42	71	53	64	57	8	
Halvepan	Dam	25	13	74	14	79	145	95	200	167	96	34	13	
9	Game Park	14	22	49	4	37	15	46	47	32	30	94	17	
Thubelisha	East	16	25	42	10	20	65	62	92	85	102	46	00	
Thubelisha	West	28	115	35	34	17	27	29	40	42	09	31	29	
Thubelisha	South	16	15	09	24	9	51	42	66	38	49	88	24	
Thubelisha	North	37	32	33	9	25	14	58	143	25	113	51	41	
2014	1 27	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	

			_			_		_	_	_		_		
Syferfontein	main road	24	20	41	7	14	235	127	85	56	543	51	28	
Syferfonte	in Farm	12	19	53	28	156	311	176	141	105	96	QN	59	
Syferfontein	Workshop	80	199	186	114	54	126	234	331	456	568	286	110	
Syferfontein	Veld	26	51	24	7	63	109	104	210	79	73	92	22	
Twistdraai	Export 4	39	102	55	_∞	10	244	15	269	47	35	58	22	
Twistdraai	Export 3	24	17	78	2	29	39	61	310	91	180	79	43	
Twistdraai	Export 2	22	33	74	28	46	291	29	298	134	173	49	12	
Twistdraai	Export	22	71	126	31	226	142	219	334	120	187	93	95	
Twistdraai	Mine	24	13	35	20	74	106	37	153	74	99	65	38	
SUS		41	215	78	26	00	43	89	210	66	139	238	46	
2014		Jan	Feb	Mar	April	Мау	June	July	Aug	Sep	Oct	Nov	Dec	

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-			T		T	_	T		T	T	T	Т	<u> </u>
Shondoni	West	17	17	46	18	12	39	74	69	134	29	91	111
Shondoni	South	18	28	55	52	25	419	118	371	252	22	340	33
Shondoni	East	99	92	294	84	117	74	77	196	59	06	193	129
Shondoni	North	69	17	21	13	33	29	0	06	63	45	51	79
impumulelo	Conveyor	27	32	7.1	13	15	34	50	83	45	52	75	27
Impumulelo	North	98	46	69	28	13	20	87	204	81	111	52	36
Impumulelo	East	19	32	27	18	31	55	93	61	51	63	51	30
[mpumulelo	South	326	370	130	92	49	171	175	121	110	184	200	78
Impumulelo	West	09	46	64	14	36	28	64	220	58	95	34	21
Syferfontein	Dam	45	27	52	52	25	13	51	40	43	63	66	41
2014		Jan	Feb	Mar	April	Мау	June	July	Aug	Sep	Oct	Nov	Dec



Pump	12	13	44	56	62	34	69	125	39	108	368	83	
Resm 9	25	22	43	16	28	46	56	33	36	38	181	99	
Langverwa	49	32	34	15	38	41	29	62	49	137	163	158	
Resm 3	38	29	21	21	9	27	53	56	26	97	159	09	
Halvepan	79	33	74	48	132	49	27						-
Game Park	18	19	15	18	18	19	34						
Thubelisha East	17	15	24	17	10	25	22	24	38	47	112	38	
Thubelisha West	21	13	20	12	16	20	42	48	42	126	159	51	
Thubelisha South	7	10	18	14	09	9	54	105	32	53	148	37	
Thubelisha	40	19	35	-	59	29	43	62	46	83	142	92	
2015	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	



Syferfontein	main road	18	22	25	15	79	19	49	40	70	192	93	28
Syferfonte	in Farm	20	17	30	39	69	42	221	124	113	348	138	148
Syferfontein	Workshop	139	103	289	104	114	234	417	297	317	086	638	432
Syferfontein	Veld	24	7	35	50	88	13	79	103	71	159	114	91
Twistdraai	Export 4	86	24	72	38	34	26	51	91	80	104	66	65
Twistdraai	Export 3	37	20	61	15	32	66	65	73	54	81	198	50
Twistdraai	Export 2	66	42	25	36	95	31	103	301	52	132	171	161
Twistdraai	Export	49	25	59	54	136	61	110	175	121	224	302	237
Twistdraai	Mine	18	14	23	18	69	31	39	92	30	40	39	69
SCS		41	26	42	44	89	47	42	186	9/	92	172	81
2015		Jan	Feb	Mar	April	Мау	June	July	Aug	Sep	Oct	Nov	Dec

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Shondoni	West	43	35	99	105	125	42	84	158	139	156	319	95	1
Shondoni	South	23	72	32	23	66	41	126	121	89	294	510	184	
Shondoni	East	50	36	134	213	95	104	148	125	240	258	340	833	
Shondoni	North	35	10	50	84	44	32	50	35	74	70	119	51	
Impumulelo	Conveyor	4	28	20	20	23	16	26	29	26	88	36	44	
Impumulelo	North	16	9	98	18	22	32	50	101	160	524	675	229	
Impumulelo	East	15	4	29	27	73	17	19	35	23	73	QN	29	
Impumulelo	South	184	20	92	152	56	41	40	45	13	63	41	62	
Impumulelo	West	31	21	19	2	52	23	52	09	35	142	45	79	
tein	Dam	15	1	18	19	34	28	37	58	45	62	50	69	
2015		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	-

ND - No data



SASOL SECUNDA Annual report Dust Deposition Monitoring

		Nitro Export	Nitro Cellubone	Nitro			Cinc. Ash	Coal	Coal
2015	Nitro Dam Wall	Entrance	Tower	Explosives	Fine Ash West	Fine Ash West 1	Weet 2	Separation	Separation
				Entrance			730011	East	West
Jan									
Feb								+	
Mar			李家公司法院的法院					-	
April	18	87	26	53				22	
May	2	85	61	110	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				
June	35	33	26	49					
July	36	194	32	44					
Aug	46	108	98	112					
Sep	43	131	28	63	80	117	203	71	87
Oct	26	06	63	111	48	203	324	105	63
Nov	58	335	110	135	102	226	781	229	217
Dec	100	70	156	124	51	128	114	87	138

