

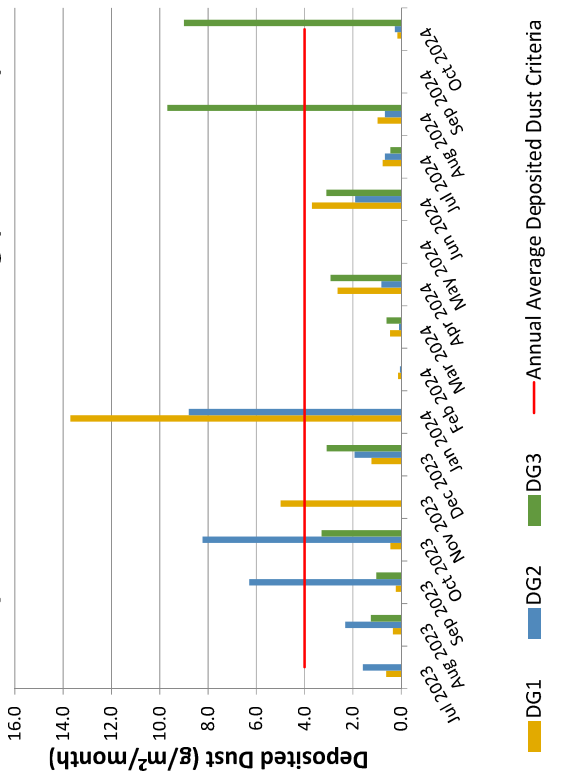
Cudgen Lakes Sand Quarry Deposited Dust Monitoring

Samples On	Samples Off	Month	DG1		DG2		DG3		Annual Criteria	Comments
			Insoluble Matter	Rolling Annual Average	Insoluble Matter	Rolling Annual Average	Insoluble Matter	Rolling Annual Average		
7/11/2017	8/10/2017	Jul-17	0.28	ID	0.98	ID	0.42	ID	4	DG1 - cloudy/organic matter.
8/10/2017	9/9/2017	Aug-17	0.54	ID	0.82	ID	0.74	ID	4	
9/9/2017	10/9/2017	Sep-17	1.36	ID	0.66	ID	0.68	ID	4	
10/9/2017	11/8/2017	Oct-17	4.23	ID	1.71	ID	0.36	ID	4	DG1 - cloudy/organic matter.
11/8/2017	12/9/2017	Nov-17	17.4	ID	15.55	ID	1.02	ID	4	DG1 - cloudy/organic matter. DG2 - green/organic matter. DG3 - slightly green/funnel missing. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activities occurring southeast of Quarry.
12/9/2017	1/9/2018	Dec-17	9.25	ID	0.84	ID	0.7	ID	4	DG1 - cloudy/organic matter. DG2 - insects. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activities occurring southeast of Quarry.
1/9/2018	2/9/2018	Jan-18	3.56	ID	0.39	ID	1.04	ID	4	DG1 - cloudy/organic matter. DG2 - organic matter. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activities occurring southeast of Quarry.
4/14/2020	5/14/2020	Apr-20	13.35	ID	0.64	ID	0.86	ID	4	DG1 - Insects, seeds, two frogs (deceased & semi mature). DG2 - Bird droppings, insects, seeds. DG3 - Insects.
5/14/2020	6/12/2020	May-20	0.85	ID	1.00	ID	0.35	ID	4	DG1 - Grass & seeds, live tree frog removed. DG2 - Ants, seeds, relatively clear. DG3 - Grass & seeds, ants, relatively clear.
6/12/2020	7/13/2020	Jun-20	0.21	ID	0.10	ID	0.13	ID	4	DG1 - Bee, seeds, bird droppings on funnel. DG2 - Insects, seeds, feather. DG3 - Insects, seeds.
7/13/2020	8/13/2020	Jul-20	2.66	ID	2.11	ID	0.17	ID	4	DG1 - Film on surface, ants, seeds. DG2 - Film on surface, ants, seeds. DG3 - Clear, few seeds, few insects.
8/13/2020	9/11/2020	Aug-20	2.6	ID	2.70	ID	0.40	ID	4	DG1 - Bird poo, algae, milky, seeds. DG2 - Seeds, milky. DG3 - Clear, algae, fly.
9/11/2020	10/13/2020	Sep-20	10	ID	2.10	ID	0.20	ID	4	DG1 - Dark grey/black colour, dead frog, bugs, beetles, flies, grass seeds. DG2 - Bird poo, spider, grass seeds, milky colour. DG3 - Clear, spider.
10/13/2020	11/10/2020	Oct-20	3.34	ID	1.66	ID	0.34	ID	4	DG1 - Insects, grass seeds, algae?, water is brown. DG2 - 20 beetles, bird poos, insects, grass seed, water is clear. DG3 - Beetle, insects, grass seeds, algae, water is clear.
11/10/2020	12/10/2020	Nov-20	0.33	ID	0.75	ID	0.37	ID	4	All sites - insects, grass seed, clear.
12/10/2020	1/11/2021	Dec-21	0.02	ID	0.04	ID	0.32	ID	4	All sites - insects, grass seeds. DG2 - Analysed sample volume (0.35L) reduced due to breakage.
1/11/2021	2/8/2021	Jan-21	0.87	ID	0.76	ID	0.00	ID	4	DG1 & DG2 - insects and grass seeds. DG3 - grass seeds.
2/8/2021	3/9/2021	Feb-21	1.44	ID	0.64	ID	2.07	ID	4	All sites - insects, grass seeds, clear.
3/9/2021	4/9/2021	Mar-21	NS	ID	0.83	1.11	0.80	0.50	4	DG2 & DG3 - insects, grass seeds, clear. DG1 sample broken during collection.
4/9/2021	5/10/2021	Apr-21	0.74	2.10	0.07	1.06	0.69	0.49	4	DG1 - grass seeds, insects, bird poo, cloudy. DG2 - grass seeds, ants. DG3 - Bird poo, grass seeds, slightly cloudy.
5/10/2021	6/7/2021	May-21	3.08	2.30	0.12	0.99	0.08	0.46	4	DG1 - insects, grass seeds, algae, cloudy. DG2 - grass seeds, insects, clear. DG3 -
6/7/2021	7/7/2021	Jun-21	2.62	2.52	0.75	1.04	NS	0.49	4	DG1 - grass seeds, insects, clear. DG2 - grass seeds, insects, clear. DG3 - grass seeds, bird poo, insects, algae, clear.
7/7/2021	8/6/2021	Jul-21	0.28	2.30	0.29	0.89	0.58	0.53	4	DG1 - grass, insects, clear. DG2 - grass, insects, clear. DG3 - grass seeds, insects, clear.
8/6/2021	9/6/2021	Aug-21	0.60	2.12	0.59	0.72	0.76	0.56	4	DG1 - grass seeds, insects, clear. DG2 - grass seeds, clear. DG3 - grass seeds, insects, clear.
9/6/2021	10/8/2021	Sep-21	0.06	1.22	0.55	0.59	0.45	0.59	4	All - ants
10/8/2021	11/9/2021	Oct-21	0.90	0.99	11.41	1.40	NS	0.61	4	DG1-bugs, fine org. matter. DG2- dirt, large org. matter
11/9/2021	12/8/2021	Nov-21	2.44	1.19	1.98	1.50	NS	0.64	4	DG2-bugs
12/8/2021	1/7/2022	Dec-21	0.45	1.23	1.06	1.59	1.62	0.78	4	All- fine org. matter
1/7/2022	2/9/2022	Jan-22	0.50	1.19	0.32	1.55	0.35	0.82	4	DG2 fine organic matter, all sites insects, grass (seeds)
2/9/2022	3/10/2022	Feb-22	0.87	1.14	17.37*	1.63	3.16	0.94	4	DG2 fine organic matter, cloudy
3/10/2022	4/27/2022	Mar-22	NS	1.14	NS	1.71	NS	0.96	4	No samples due to flooding
4/27/2022	4/27/2022	Apr-22	NS	1.18	NS	1.90	NS	1.00	4	No samples due to flooding
4/27/2022	5/23/2022	May-22	NS	0.97	NS	2.12	NS	1.15	4	No samples due to flooding
5/23/2022	6/29/2022	Jun-22	NS	0.76	NS	2.31	NS	1.15	4	Bottles reset
6/30/2022	7/26/2022	Jul-22	NS	0.83	NS	2.65	NS	1.27	4	
7/27/2022	8/25/2022	Aug-22	2.97	1.17	3.05	3.06	0.22	1.16	4	fine org. matter, cloudy, yellow
8/26/2022	9/28/2022	Sep-22	3.41	1.65	5.65	3.91	0.06	1.08	4	
9/28/2022	10/26/2022	Oct-22	1.75	1.77	2.91	2.50	1.56	1.16	4	fine org. matter
10/26/2022	11/24/2022	Nov-22	1.57	1.65	2.65	2.61	0.48	1.06	4	dead bugs, yellow, cloudy, dead bugs
11/24/2022	12/21/2022	Dec-22	0.39	1.64	1.08	2.61	0.00	0.83	4	beetles/ants, large org. matter, fine org. matter

12/21/2022	1/22/2023	Jan-23	0.12	1.58	1.01	2.73	0.26	0.82	4	4	seeds and ants
1/22/2023	2/23/2023	Feb-23	0.57	1.54	0.43	2.40	0.04	0.37	4	4	Samples not analysed, bottles broken during transit
2/23/2023	3/27/2023	Mar-23	NS	1.54	NS	2.40	NS	0.37	4	4	seeds and bugs
3/27/2023	4/24/2023	Apr-23	1.17	1.49	0.77	2.19	0.28	0.36	4	4	small bugs/bugs, sticks, algae, fine org. matter, Green
4/24/2023	5/24/2023	May-23	0.56	1.39	2.88	2.27	3.02	0.66	4	4	fine and large org. matter, cloudy
5/24/2023	6/23/2023	Jun-23	0.66	1.32	2.44	2.29	0.69	0.66	4	4	grass, plant material, org. matter, cloudy, brown, DG3 sample invalid due to high proportion of organic matter.
6/23/2023	7/25/2023	Jul-23	0.62	1.25	1.59	2.22	*51.08	0.66	4	4	DG1 - spider, cricket, fine org. matter, DG2 - twig, org. matter, cloudy, yellow, DG3 - twigs, bugs, fine org. matter
7/25/2023	8/23/2023	Aug-23	0.34	1.01	2.32	2.16	1.26	0.77	4	4	DG1-bugs, fine org. matter, DG2-seeds, grass, fine org. matter, cloudy, brown, DG3-algae, fine org. matter, cloudy
8/23/2023	9/19/2023	Sep-23	0.22	0.72	6.29	2.22	1.04	0.86	4	4	DG1-bugs, org. matter, DG2-seeds, grass, fine org. matter, cloudy, brown, DG3-algae, fine org. matter, cloudy
9/19/2023	10/25/2023	Oct-23	0.45	0.61	8.23	2.70	3.29	1.04	4	4	DG1 - algae, bugs, fine org. matter, DG2 - algae, bugs, org. matter, DG3 - algae, bugs, fine org. matter, cloudy, yellow, DG2 & DG3 samples invalid due to high proportion of organic matter.
10/25/2023	11/22/2023	Nov-23	4.99	0.92	*23.89	2.70	*67.9	1.10	4	4	DG1 - bugs, algae, twigs, fine org. matter, DG2 - bugs, algae, fine org. matter, DG3 - fine org. matter
11/22/2023	12/20/2023	Dec-23	1.23	0.99	1.94	2.79	3.09	1.44	4	4	DG1 - bugs, algae, twigs, fine org. matter, DG2 - bugs, algae, fine org. matter, DG3 - fine org. matter, DG3 sample deemed invalid due to high proportion of organic matter
12/20/2023	1/19/2024	Jan-24	13.70	2.23	8.79	3.57	*65	1.59	4	4	DG1 - leaves, seeds, fine org. matter, cloudy, DG2-insects, fine org. matter, cloudy, DG3 - bottle broken in transit to lab
1/19/2024	2/21/2024	Feb-24	0.13	2.19	0.05	3.53	NS	1.81	4	4	DG1 - bug, seeds, fine org. matter, cloudy, DG2-fine org. matter, DG3-bugs, fine org. matter
2/21/2024	3/22/2024	Mar-24	0.47	2.04	0.1	3.22	0.61	1.66	4	4	DG1 - Fine org. matter, green colour, algae, cloudy, DG2-fine org. matter, DG3-fine org. matter, yellow, cloudy, seeds, algae, insects
3/22/2024	4/22/2024	Apr-24	2.63	2.17	0.82	3.22	2.92	1.99	4	4	DG1 - Insects, grass (seeds), org. matter, DG2-Insects, grass (seeds), org. matter, DG3-Insects, grass (seeds), org. matter
4/22/2024	5/31/2024	May-24	NS	2.31	NS	3.26	NS	1.84	4	4	DG1 - moth, mosquitoes, fine org. matter, cloudy, DG2-mosquitoes, fine org. matter, cloudy, DG3-mosquitoes, fine org. matter
5/31/2024	6/26/2024	Jun-24	3.70	2.59	1.9	3.20	3.1	2.19	4	4	DG1 - sticks, fine org. matter, DG2-insects, fine org. matter, DG3-sticks, lots of organic matter, insects
6/26/2024	7/23/2024	Jul-24	0.77	2.60	0.67	3.11	0.45	1.97	4	4	DG1 - fine org. Matter DG2-fine org. matter, DG3-seeds/dirt/sand, fine org. matter, brown
7/23/2024	8/23/2024	Aug-24	0.98	2.47	0.67	2.89	9.69	2.83	4	4	DG1 & DG2 - sample broken during collection, DG3 - Sticks, sediment present, broken bug shells
8/23/2024	9/24/2024	Sep-24	0.16	2.29	0.26	2.67	*194	2.83	4	4	
9/24/2024	10/23/2024	Oct-24	NS	2.45	NS	2.70	9	3.69	4	4	
Monthly Minimum (g/m ²)			0.12	-	0.05	-	0.04	-	-	-	
Monthly Maximum (g/m ²)			13.70	-	8.79	-	9.69	-	-	-	
Average (g/m ²)			1.76	-	2.29	-	2.58	-	-	-	

ID = Insufficient Data
NS - Not Sampled

Deposited Dust Monitoring (2023-2024)



Deposited Dust Monitoring (2017 - 2024)

