

Licencee Name: Loop Organics Pty Ltd
 Facility Address: 74 Lemington Rd, Ravensworth
 EPL No.: EPL 20892

2018 - 2019	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			7/08/2018		27/11/2018		8/02/2019		15/05/2019	
	Time			4:00 PM		5:30 PM		3:00 PM		4:00 PM	
	Date data obtained			30/08/2018		7/12/2018 & 19/12/2018		21/02/2019		5/06/2019	
	Date data published			25/09/2018		31/12/2018		6/03/2019		12/06/2019	
	Pollutant	Units	Pollution conc. Limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO ₃)	mg/L	N/A	74	N/A	140	N/A	200	N/A	150	N/A
	Ammonia	mg/L	N/A	0.068	N/A	0.22	N/A	1.1	N/A	0.073	N/A
	Calcium	mg/L	N/A	6.1	N/A	21	N/A	24	N/A	29	N/A
	Chloride	mg/L	N/A	20	N/A	22	N/A	37	N/A	43	N/A
	EC	mS/cm	N/A	0.28	N/A	0.49	N/A	0.63	N/A	0.59	N/A
	Fluoride	mg/L	N/A	1	N/A	0.9	N/A	0.7	N/A	0.5	N/A
	Iron	mg/L	N/A	6.6	N/A	1.85	N/A	0.77	N/A	0.59	N/A
	Magnesium	mg/L	N/A	12	N/A	16	N/A	16	N/A	22	N/A
	Manganese	mg/L	N/A	0.076	N/A	0.034	N/A	0.035	N/A	0.095	N/A
	N (total)	mg/L	N/A	5.5	N/A	6.6	N/A	9.4	N/A	15	N/A
	pH	pH	N/A	7.5	N/A	8.3	N/A	7.7	N/A	8.7	N/A
	Phosphorus	mg/L	N/A	0.2	N/A	2.3		2.1	N/A	4	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	6.6	N/A	8	N/A	11	N/A	17	N/A
	Sodium	mg/L	N/A	31	N/A	48	N/A	53	N/A	59	N/A
	Sulfate	mg/L	N/A	33	N/A	42	N/A	53	N/A	71	N/A
	Total organic carbon	mg/L	N/A	9.1	N/A	10	N/A	70	N/A	79	N/A
	Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total suspended solids	mg/L	N/A	400	N/A	82	N/A	70	N/A	140	N/A

ND = Not detected for all analytes in this group.

2019 - 2020	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			18/08/2019		N/A		3/03/2020		29/05/2020	
	Time			4:00 PM		N/A		N/A		N/A	
	Date data obtained			29/08/2019		N/A		19/03/2020		23/06/2020	
	Date data published			18/09/2019		9/12/2019					
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	250	N/A	No sample collected. Leachate dam level below 5% due to dry weather condition during quarter and leachate not able to be collected.	N/A	280	N/A	250	N/A
	Ammonia	mg/L	N/A	5	N/A		N/A	19	N/A	4.5	N/A
	Calcium	mg/L	N/A	43	N/A		N/A	330	N/A	42	N/A
	Chloride	mg/L	N/A	60	N/A		N/A	83	N/A	110	N/A
	EC	mS/cm	N/A	0.85	N/A		N/A	#REF!	N/A	1	N/A
	Fluoride	mg/L	N/A	0.8	N/A		N/A	0.4	N/A	0.6	N/A
	Iron	mg/L	N/A	2.44	N/A		N/A	#REF!	N/A	0.9	N/A
	Magnesium	mg/L	N/A	33	N/A		N/A	890	N/A	36	N/A
	Manganese	mg/L	N/A	0.29	N/A		N/A	#REF!	N/A	0.09	N/A
	N (total)	mg/L	N/A	7.2	N/A		N/A	33	N/A	15	N/A
	pH	pH	N/A	7.9	N/A		N/A	7.8	N/A	7.3	N/A
	Phosphorus	mg/L	N/A	1.5	N/A		N/A	0.051	N/A	5.1	N/A
	PAH	mg/L	N/A	ND	N/A		N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	19	N/A		N/A	630	N/A	37	N/A
	Sodium	mg/L	N/A	73	N/A		N/A	11200	N/A	86	N/A
	Sulfate	mg/L	N/A	95	N/A		N/A	88	N/A	80	N/A
	Total organic carbon	mg/L	N/A	40	N/A		N/A	120	N/A	110	N/A
	Total petroleum hydrocarbons	mg/L	N/A	ND	N/A		N/A	ND	N/A	ND	N/A
	Total phenolics	mg/L	N/A	ND	N/A		N/A	ND	N/A	ND	N/A
	Total suspended solids	mg/L	N/A	17	N/A		N/A	21	N/A	72	N/A

ND = Not detected for all analytes in this group.

2020 - 2021	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			25/08/2020		3/12/2020		11/02/2021		26/04/2021	
	Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained			11/09/2020		14/12/2020		23/02/2021		5/05/2021	
	Date data published			18/09/2020		31/12/2020		8/03/2021		12/05/2021	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	340	N/A	210	N/A	190	N/A	260	N/A
	Ammonia	mg/L	N/A	10	N/A	3	N/A	2.7	N/A	5.4	N/A
	Calcium	mg/L	N/A	66	N/A	53	N/A	45	N/A	89	N/A
	Chloride	mg/L	N/A	90	N/A	110	N/A	96	N/A	70	N/A
	EC	mS/cm	N/A	1.2	N/A	1.4	N/A	1.1	N/A	1.3	N/A
	Fluoride	mg/L	N/A	0.4	N/A	0.4	N/A	0.3	N/A	0.3	N/A
	Iron	mg/L	N/A	0.41	N/A	0.16	N/A	0.2	N/A	0.00074	N/A
	Magnesium	mg/L	N/A	44	N/A	47	N/A	35	N/A	52	N/A
	Manganese	mg/L	N/A	0.17	N/A	0.022	N/A	0.032	N/A	0.00008	N/A
	N (total)	mg/L	N/A	21	N/A	28	N/A	15	N/A	20	N/A
	pH	pH	N/A	7.7	N/A	8.1	N/A	7.7	N/A	8.5	N/A
	Phosphorus	mg/L	N/A	13	N/A	3.6	N/A	2.6	N/A	6.7	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	40	N/A	48	N/A	36	N/A	52	N/A
	Sodium	mg/L	N/A	110	N/A	140	N/A	120	N/A	120	N/A
	Sulfate	mg/L	N/A	140	N/A	230	N/A	260	N/A	130	N/A
	Total organic carbon	mg/L	N/A	110	N/A	140	N/A	100	N/A	92	N/A
	Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total suspended solids	mg/L	N/A	17	N/A	150	N/A	61	N/A	69	N/A

ND = Not detected for all analytes in this group.

2021 - 2022	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			13/07/2021		15/11/2021		11/02/2022		8/06/2022	
	Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained			11/08/2021		24/11/2021		4/03/2022		17/06/2022	
	Date data published			12/10/2021		24/11/2021		28/04/2022		21/07/2022	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	260	N/A	230	N/A	350	N/A	400	N/A
	Ammonia	mg/L	N/A	2.3	N/A	17	N/A	5.2	N/A	3.4	N/A
	Calcium	mg/L	N/A	52	N/A	57	N/A	53	N/A	74	N/A
	Chloride	mg/L	N/A	95	N/A	77	N/A	120	N/A	82	N/A
	EC	mS/cm	N/A	1.1	N/A	1.2	N/A	1.2	N/A	1.2	N/A
	Fluoride	mg/L	N/A	0.2	N/A	0.3	N/A	0.4	N/A	0.3	N/A
	Iron	mg/L	N/A	0.68	N/A	1.4	N/A	0.6	N/A	1.1	N/A
	Magnesium	mg/L	N/A	44	N/A	36	N/A	43	N/A	41	N/A
	Manganese	mg/L	N/A	0.097	N/A	0.087	N/A	0.052	N/A	0.15	N/A
	N (total)	mg/L	N/A	13	N/A	31	N/A	27	N/A	21	N/A
	pH	pH	N/A	8.6	N/A	7.8	N/A	8	N/A	8.7	N/A
	Phosphorus	mg/L	N/A	2.3	N/A	4.7	N/A	4.3	N/A	5.1	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	50	N/A	39	N/A	46	N/A	41	N/A
	Sodium	mg/L	N/A	120	N/A	100	N/A	130	N/A	110	N/A
	Sulfate	mg/L	N/A	162	N/A	100	N/A	79	N/A	26	N/A
	Total organic carbon	mg/L	N/A	100	N/A	130	N/A	120	N/A	97	N/A
	Total petroleum hydrocarbons	mg/L	N/A	0.32	N/A	ND	N/A	0.1	N/A	0.49	N/A
	Total phenolics	mg/L	N/A	0.011	N/A	ND	N/A	0.032	N/A	0.002	N/A
Total suspended solids	mg/L	N/A	92	N/A	140	N/A	64	N/A	74	N/A	

ND = Not detected for all analytes in this group.

2022 - 2023	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			12/09/2022		8/12/2022		4/04/2023		29/6/2023	
	Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained			25/10/2022		6/01/2023		1/05/2023		10//7/2023	
	Date data published			26/10/2022		12/01/2023		2/05/2023		11/07/2023	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	440	N/A	280	N/A	240	N/A	270	N/A
	Ammonia	mg/L	N/A	12	N/A	2.6	N/A	5.5	N/A	0.9	N/A
	Calcium	mg/L	N/A	79	N/A	53	N/A	41	N/A	47	N/A
	Chloride	mg/L	N/A	86	N/A	77	N/A	72	N/A	68	N/A
	EC	uS/cm	N/A	1300	N/A	980	N/A	840	N/A	970	N/A
	Fluoride	mg/L	N/A	0.3	N/A	0.4	N/A	0.3	N/A	0.4	N/A
	Iron	mg/L	N/A	0.64	N/A	3	N/A	0.43	N/A	0.83	N/A
	Magnesium	mg/L	N/A	40	N/A	29	N/A	24	N/A	28	N/A
	Manganese	mg/L	N/A	0.18	N/A	0.27	N/A	0.088	N/A	0.13	N/A
	N (total)	mg/L	N/A	31	N/A	17	N/A	18	N/A	9.4	N/A
	pH	pH	N/A	7.5	N/A	7.3	N/A	8	N/A	8.3	N/A
	Phosphorus	mg/L	N/A	5.7	N/A	8.4	N/A	3.4	N/A	3	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	37	N/A	34	N/A	37	N/A	40	N/A
	Sodium	mg/L	N/A	110	N/A	98	N/A	81	N/A	93	N/A
	Sulfate	mg/L	N/A	53	N/A	51	N/A	73	N/A	40	N/A
	Total organic carbon	mg/L	N/A	130	N/A	110	N/A	72	N/A	57	N/A
	Total Petroleum Hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total phenolics (phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total suspended solids	mg/L	N/A	67	N/A	270	N/A	45	N/A	52	N/A

ND = Not detected for all analytes in this group.

2023 - 2024	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			25/09/2023		2/02/2024		30/04/2024		17/07/2024	
	Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained			10/12/2023		20/02/2024		13/05/2024		23/07/2024	
	Date data published			13/10/2023		20/02/2024		15/05/2024		23/07/2024	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	360	N/A	390	N/A	340	N/A	320	N/A
	Ammonia	mg/L	N/A	13	N/A	0.58	N/A	2.4	N/A	3.2	N/A
	Calcium	mg/L	N/A	60	N/A	56	N/A	170	N/A	93	N/A
	Chloride	mg/L	N/A	100	N/A	180	N/A	61	N/A	210	N/A
	EC	uS/cm	N/A	1300	N/A	1500	N/A	1300	N/A	1500	N/A
	Fluoride	mg/L	N/A	0.5	N/A	0.5	N/A	0.3	N/A	0.3	N/A
	Iron	mg/L	N/A	1	N/A	0.18	N/A	0.35	N/A	0.73	N/A
	Magnesium	mg/L	N/A	34	N/A	44	N/A	35	N/A	54	N/A
	Manganese	mg/L	N/A	0.18	N/A	0.045	N/A	0.11	N/A	0.15	N/A
	N (total)	mg/L	N/A	180	N/A	13	N/A	20	N/A	17	N/A
	pH	pH	N/A	7.7	N/A	9.1	N/A	7.7	N/A	8	N/A
	Phosphorus	mg/L	N/A	5.2	N/A	1.9	N/A	3.5	N/A	4	N/A
	Polycyclic Aromatic Hydrocarbons (PAH)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	52	N/A	80	N/A	84	N/A	130	N/A
	Sodium	mg/L	N/A	120	N/A	150	N/A	120	N/A	190	N/A
	Sulfate	mg/L	N/A	52	N/A	95	N/A	150	N/A	150	N/A
	Total Organic Carbon	mg/L	N/A	81	N/A	91	N/A	89	N/A	130	N/A
	Total Petroleum Hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	2.53	N/A	1.06	N/A
	(Formally TPH) TRH C6 - C9	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	(Formally TPH) TRH C10 - C14	mg/L	N/A	ND	N/A	ND	N/A	0.15	N/A	ND	N/A
	(Formally TPH) TRH C15 - C28	mg/L	N/A	ND	N/A	ND	N/A	1.6	N/A	0.58	N/A
	(Formally TPH) TRH C29 - C36	mg/L	N/A	ND	N/A	ND	N/A	0.78	N/A	0.48	N/A
	Total Phenolics (Phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total Suspended Solids	mg/L	N/A	33	N/A	55	N/A	39	N/A	29	N/A	

ND = Not detected for all analytes in this group.

2024 - 2025	EPA Identification No.			2		2		2		2	
	Description			Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency			Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected			21/08/2024		18/12/2024		4/03/2025		6/05/2025	
	Time			10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained			3/09/2024		15/01/2025		21/03/2025		19/05/2025	
	Date data published			18/10/2024		20/01/2025		25/03/2025		22/05/2025	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	360	N/A	410	N/A	430	N/A	470	N/A
	Ammonia	mg/L	N/A	3.5	N/A	0.31	N/A	3.3	N/A	13	N/A
	Calcium	mg/L	N/A	80	N/A	81	N/A	67	N/A	66	N/A
	Chloride	mg/L	N/A	150	N/A	270	N/A	360	N/A	260	N/A
	EC	uS/cm	N/A	1600	N/A	1800	N/A	2100	N/A	2100	N/A
	Fluoride	mg/L	N/A	0.31	N/A	0.4	N/A	0.4	N/A	2.1	N/A
	Iron	mg/L	N/A	1.15	N/A	0.46	N/A	0.034	N/A	0.57	N/A
	Magnesium	mg/L	N/A	44	N/A	51	N/A	66	N/A	49	N/A
	Manganese	mg/L	N/A	0.15	N/A	0.2	N/A	0.056	N/A	0.17	N/A
	N (total)	mg/L	N/A	18	N/A	18	N/A	24	N/A	36	N/A
	pH	pH	N/A	8.3	N/A	7.8	N/A	8.8	N/A	7.9	N/A
	Phosphorus	mg/L	N/A	4	N/A	5.6	N/A	2.81	N/A	5.9	N/A
	Polycyclic Aromatic Hydrocarbons (PAH)	mg/L	N/A	0.008	N/A	0.008	N/A	0.008	N/A	0.008	N/A
	Potassium	mg/L	N/A	100	N/A	110	N/A	150	N/A	170	N/A
	Sodium	mg/L	N/A	160	N/A	180	N/A	260	N/A	190	N/A
	Sulfate	mg/L	N/A	150	N/A	180	N/A	180	N/A	140	N/A
	Total Organic Carbon	mg/L	N/A	99	N/A	130	N/A	140	N/A	160	N/A
	Total Petroleum Hydrocarbons	mg/L	N/A	0.67	N/A	0.925	N/A	1.405	N/A	0.25	N/A
	(Formally TPH) TRH C6 - C9	mg/L	N/A	0.025	N/A	0.025	N/A	0.025	N/A	0.025	N/A
	(Formally TPH) TRH C10 - C14	mg/L	N/A	0.025	N/A	0.14	N/A	0.12	N/A	0.025	N/A
	(Formally TPH) TRH C15 - C28	mg/L	N/A	0.42	N/A	0.45	N/A	0.75	N/A	0.1	N/A
	(Formally TPH) TRH C29 - C36	mg/L	N/A	0.2	N/A	0.31	N/A	0.51	N/A	0.1	N/A
	Total Phenolics (Phenols)	mg/L	N/A	0.019	N/A	0.0025	N/A	0.019	N/A	0.01	N/A
Total Suspended Solids	mg/L	N/A	8	N/A	110	N/A	55	N/A	51	N/A	

ND = Not detected for all analytes in this group.

Disclaimer -This monitoring data has been made available to meet the requirements of Section 66(6) of the Protection of the Environment Operations Act 1997 and NSW EPA Guidelines on Requirements for Publishing Pollution Monitoring Data. To the best of Loop Organic's knowledge, the data in this table is correct. The information and data in this table must not be published elsewhere by any means without prior consent from Loop Organics. For more details on publication of pollution monitoring data refer to the NSW EPA Website www.epa.nsw.gov.au