KOOTINGAL LANDFILL - YEARLY SUMMARY FOR 2018/19

LICENCE PERIOD: 17th Oct 2018 - 16th Oct 2019

POINT 1 - Surface Water NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Volumteric Flow Rate	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	kL/day	mg/L
11/12/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13/03/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19/06/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/09/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 2 - Leachate NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	mg/L
11/12/2018	205	56	35	<0.01	0.70	6.1	0.2	2.50	12	0.3	<0.1	<0.1	<0.1	<PQL	7.8	57	13	10	24.8	5.7	48	<50	46	<0.1
13/03/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19/06/2019	174	60	33	<0.1	0.56	18.2	0.3	2.3	13	0.2	<0.1	<0.1	<0.1	<PQL	8.9	48	6	<5	14.6	7.2	69	<50	119	<0.1
11/09/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 3 - Leachate Overflow NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	Calcium	Chloride	Chromium	Conductivity	Dissolved Oxygen	Fluoride	Iron	Magnesium	Manganese	Nitrate	Nitrite	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	Temperature	TKN	TOC	Total Phenolics	TSS	Volumteric Flow Rate	Zinc
	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	oC	mg/L	mg/L	ug/L	mg/L	kL/day	mg/L
11/12/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13/03/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19/06/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/09/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 4 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
11/12/2018	353	<2	134	98	1.2	<0.1	84	<0.1	56.1	<0.1	<PQL	6.7	14	77	82	942	9	<50
13/03/2019	357	<2	130	116	1.1	1.26	108	0.167	85.9	0.08	<PQL	6.5	17	99	60	1108	12	<50
19/06/2019	346	<2	146	108	1.2	0.20	99	<0.1	81.1	<0.1	<PQL	6.6	15	78	60	1108	12	<50
11/09/2019	391	<2	92	84	1.1	<0.1	78	0.1	53.3	<0.1	<PQL	6.6	14	79	67	886	8	<50

POINT 5 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
11/12/2018	702	<2	283	131	1.1	16.6	137	4.00	8.4	<0.1	<PQL	6.8	15	238	813	1692	6	<50
13/03/2019	714	<2	197	260	1.1	2.3	140	5.07	9.17	0.04	<PQL	6.7	13	274	461	1708	7	<50
19/06/2019	672	<2	232	264	1.1	0.4	153	4.70	9.30	<0.1	<PQL	6.8	11	241	463	1689	7	<50
11/09/2019	709	<2	185	251	1	0.8	122	4.5	11.1	<0.1	<PQL	6.7	11	261	406	1686	7	<50

POINT 6 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
11/12/2018	711	3	179	147	1.3	0.3	93	0.5	<0.1	<0.1	<PQL	6.8	11	141	49	1028	10	<50
13/03/2019	698	<2	128	156	1.2	0.4	86	0.59	0.01	0.06	<PQL	6.7	10	137	79	1062	12	<50
19/06/2019	665	<2	178	203	1.2	0.1	127	0.60	0.50	0.10	<PQL	6.7	11	136	84	1221	13	<50
11/09/2019	691	<2	146	207	1.1	0.6	110	0.8	<0.1	<0.1	<PQL	6.8	12	153	155	1230	11	<50

POINT 7 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TDS	TOC	Total Phenolics
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L
11/12/2018	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13/03/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19/06/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11/09/2019	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY