

FOREST ROAD LANDFILL - YEARLY SUMMARY FOR 2015/16

LICENCE PERIOD: 25th Sept 2015 - 24th Sept 2016

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

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	Oil and Grease	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS	Volumetric Flowrate		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	mg/L	
2/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/10/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 2 - Surface Water Dam NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Nitrite	Ammonia	Oil and Grease	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
2/12/2015	187	5	39	46	0.4	2.3	14	0.4	<0.1	<0.1	<0.1	NA	8.2	15	40	<10	20	<50	45
9/03/2016	114	14	31	68	0.7	14.5	7	0.6	<0.1	<0.1	<0.1	<5	9.4	19	61	22	32	<50	368
2/06/2016	137	3	35	24	0.3	2.3	9	0.1	0.3	<0.1	0.3	<5	8.2	11	20	21	24	<50	24
8/09/2016	164	6	52	74	0.3	0.8	16	0.02	5.3	0.14	0.3	<5	7.8	11	54	30	16	<50	9

POINT 3 - Surface Water - Upstream NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS	Volumetric Flowrate	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	
2/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/10/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 4 - Surface Water - Downstream NOTE: Monitoring Frequency - Special Frequency

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS	Volumetric Flowrate	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	mg/L	
2/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/10/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 5 - Leachate NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	Oil and Grease	OC/OP	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	pH Units	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
2/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/09/2016	523	3	117	284	0.6	0.09	52	0.18	37.0	6.6	<5	<PQL	7.4	48	224	79	51	<50	17

POINT 6 - Leachate NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	Oil and Grease	OC/OP	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS
	mg/L	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	ug/L	mg/L
2/12/2015	558	23	45	743	0.9	0.28	64	0.04	<0.1	<0.1	<5	<PQL	8.9	61	498	<10	120	<50	NA
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8/09/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 7 - Leachate Overflow NOTE: Monitoring Frequency - Quarterly

Sample Date	Alkalinity	BOD	Calcium	Chloride	Fluoride	Iron	Magnesium	Manganaese	Nitrate	Ammonia	OC/OP	pH	Potassium	Sodium	Sulphate	TOC	Total Phenolics	TSS	VOC
	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	ug/L	mg/L	mg/L
2/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14/10/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 8 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Aluminium	Arsenic	BOD	Cadmium	Calcium	Chloride	Copper	DOC	Conductivity	Fluoride	Iron	Iron (Dissolved)	Lead	Magnesium	Manganese	Mercury	Ammonia	Nickel	Nox
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	mg/L	mg/L	mg/L	mg/L	mg/L	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	mg/L	
3/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/09/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 9 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Aluminium	Arsenic	BOD	Cadmium	Calcium	Chloride	Copper	DOC	Conductivity	Fluoride	Iron	Iron (Dissolved)	Lead	Magnesium	Manganese	Mercury	Ammonia	Nickel	Nox
	mg/L	mg/L	mg/L	mg/L	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	mg/L	mg/L
3/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/09/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 18 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Aluminium	Arsenic	BOD	Cadmium	Calcium	Chloride	Copper	DOC	Conductivity	Fluoride	Iron	Iron (Dissolved)	Lead	Magnesium	Manganese	Mercury	Ammonia	Nickel	Nox
	mg/L	mg/L	mg/L	mg/L	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	mg/L	mg/L
3/12/2015	0.61	NA	<2	<0.001	118	159	NA	1	1.32	<0.2	1.31	<0.05	NA	11	0.24	NA	<0.1	NA	3.3
9/03/2016	0.36	NA	<2	<0.001	115	151	NA	1	1.30	<0.2	0.74	<0.05	NA	12	0.18	NA	<0.1	NA	3.1
1/06/2016	0.28	NA	<2	<0.001	125	155	NA	2	1.29	<0.2	0.54	<0.05	NA	11	0.10	NA	<0.1	NA	3.2
9/09/2016	0.18	NA	2	<0.001	114	147	NA	2	1.30	<0.2	0.36	<0.05	NA	11	0.07	NA	<0.1	NA	3.6

POINT 19 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Aluminium	Arsenic	BOD	Cadmium	Calcium	Chloride	Copper	DOC	Conductivity	Fluoride	Iron	Iron (Dissolved)	Lead	Magnesium	Manganese	Mercury	Ammonia	Nickel	Nox
	mg/L	mg/L	mg/L	mg/L	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	mg/L	mg/L
3/12/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/03/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/06/2016	0.39	NA	<2	NA	268	567	NA	13	2.81	0.3	1.26	<0.05	NA	123	0.22	NA	<0.1	NA	4.4
9/09/2016	0.38	NA	29	NA	261	573	NA	18	2.80	0.4	0.70	<0.05	NA	121	0.09	NA	<0.1	NA	4.7

POINT 20 - Groundwater Bore NOTE: Monitoring Frequency - Quarterly

Sample Date	Aluminium	Arsenic	BOD	Cadmium	Calcium	Chloride	Copper	DOC	Conductivity	Fluoride	Iron	Iron (Dissolved)	Lead	Magnesium	Manganese	Mercury	Ammonia	Nickel	Nox
	mg/L	mg/L	mg/L	mg/L	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	mg/L	mg/L
3/12/2015	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/03/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1/06/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9/09/2016	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

POINT 13 - Methane NOTE: Monitoring Frequency - Quarterly

Sample Date	Methane %/volume
2/12/2015	<0.05
31/03/2016	<0.05
3/06/2016	<0.05
8/09/2016	<0.05

POINT 15 - Methane NOTE: Monitoring Frequency - Quarterly

Sample Date	Methane %/volume
2/12/2015	<0.05
31/03/2016	<0.05
3/06/2016	<0.05
8/09/2016	<0.05

POINT 16 - Methane NOTE: Monitoring Frequency - Quarterly

Sample Date	Methane %/volume
2/12/2015	<0.05
31/03/2016	<0.05
3/06/2016	<0.05
8/09/2016	<0.05

VOC
mg/L
DRY
DRY
DRY
<PQL

VOC
mg/L
<PQL
DRY
DRY
DRY

Volumetric Flowrate
kL/day
DRY
DRY
DRY
DRY

Oil and Grease	OC/OP	pH	Phosphorus	Potassium	Sodium	Soluble Phosphorus	Sulphate	TOC	Total Phenolics	Zinc
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