

Attachment 6 - Leachate Monitoring Program

Site Code Easting (MGA Zone 52) Northing (MGA Zone 52)		Sample Locations										
		LP01	LP02	LP03	DW2	DW3	DW5	DW6	DW7 ¹	DW8 ¹	TC Sump	LMP02
		709534	709531	709497	709029	709038	709023	709041	709450	709459	709465	709938
		8630726	8630713	8630873	8630459	8630216	8630122	8630039	8630121	8630042	8630233	8629759
Parameter	Units	Frequency										
Flow	kL/day	-	-	-	C ²	C ²	C ²	C ²	C ²	C ²	C ²	C ²
Water Level	measure	M	M	M	M	M	M	M	M	M	M	M
pH	pH units	Q	Q	Q	B	B	B	B	B	B	B	B
Electrical Conductivity (EC)	µS/cm	Q	Q	Q	B	B	B	B	B	B	B	B
Dissolved Oxygen (DO)	% saturation	Q	Q	Q	B	B	B	B	B	B	B	B
Temperature	°C	Q	Q	Q	B	B	B	B	B	B	B	B
Turbidity	NTU	Q	Q	Q	B	B	B	B	B	B	B	B
Metals/Metalloids (filtered (0.45µm) and unfiltered)												
Aluminium (Al)	µg/L	Q	Q	Q	B	B	B	B	B	B	B	B
Arsenic (As)		Q	Q	Q	B	B	B	B	B	B	B	B
Boron (B)		Q	Q	Q	B	B	B	B	B	B	B	B
Cadmium (Cd)		Q	Q	Q	B	B	B	B	B	B	B	B
Chromium (Cr)		Q	Q	Q	B	B	B	B	B	B	B	B
Cobalt (Co)		Q	Q	Q	B	B	B	B	B	B	B	B
Copper (Cu)		Q	Q	Q	B	B	B	B	B	B	B	B
Iron (Fe)		Q	Q	Q	B	B	B	B	B	B	B	B
Lead (Pb)		Q	Q	Q	B	B	B	B	B	B	B	B
Lithium (Li)		Q	Q	Q	B	B	B	B	B	B	B	B
Manganese (Mn)		Q	Q	Q	B	B	B	B	B	B	B	B
Mercury (Hg)		Q	Q	Q	B	B	B	B	B	B	B	B
Nickel (Ni)		Q	Q	Q	B	B	B	B	B	B	B	B
Selenium (Se)		Q	Q	Q	B	B	B	B	B	B	B	B
Vanadium (V)		Q	Q	Q	B	B	B	B	B	B	B	B
Zinc (Zn)		Q	Q	Q	B	B	B	B	B	B	B	B
Major Ions												
Carbonate (CO ₃)	mg/L	Q	Q	Q	B	B	B	B	B	B	B	B
Bicarbonate (HCO ₃)		Q	Q	Q	B	B	B	B	B	B	B	B
Calcium (Ca)		Q	Q	Q	B	B	B	B	B	B	B	B
Magnesium (Mg)		Q	Q	Q	B	B	B	B	B	B	B	B
Potassium (K)		Q	Q	Q	B	B	B	B	B	B	B	B

Sodium (Na)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Chloride (Cl)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Sulphate (SO ₄)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Nutrients													
Ammonia (NH ₃)	µg/L	Q	Q	Q	B	B	B	B	B	B	B	B	B
Ammonium (NH ₄)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Nitrate (NO ₃)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Nitrite (NO ₂)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Oxides of Nitrogen (NO _x)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Total Nitrogen (TN)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Total Phosphorous (TP)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Filterable reactive phosphorous (FRP)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Hydrocarbons													
Total Recoverable Hydrocarbons (TRH)	µg/L	Q	Q	Q	B	B	B	B	B	B	B	B	B
Polycyclic Aromatic Hydrocarbons (PAHs)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Benzene		Q	Q	Q	B	B	B	B	B	B	B	B	B
Toluene		Q	Q	Q	B	B	B	B	B	B	B	B	B
Ethylbenzene		Q	Q	Q	B	B	B	B	B	B	B	B	B
Xylene		Q	Q	Q	B	B	B	B	B	B	B	B	B
Naphthalene		Q	Q	Q	B	B	B	B	B	B	B	B	B
PFAS (per-and poly-fluoro alkyl substances) (Analysis on a minimum of 28 PFAS compounds using LC-MS/MS)													
PFOS	µg/L	Q	Q	Q	B	B	B	B	B	B	B	B	B
PFOA		Q	Q	Q	B	B	B	B	B	B	B	B	B
Other													
Organophosphate Pesticides	µg/L	A	A	A	-	-	-	-	-	-	-	-	-
Organochlorine Pesticides		A	A	A	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls		A	A	A	-	-	-	-	-	-	-	-	-
Tributyltin Oxide		A	A	A	-	-	-	-	-	-	-	-	-
Phenols		A	A	A	-	-	-	-	-	-	-	-	-
Chemical Oxygen Demand (COD)	mg/L	Q	Q	Q	B	B	B	B	B	B	B	B	B
Total Suspended Solids (TSS)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Total Organic Carbon (TOC)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Total Dissolved Solids (TDS)		Q	Q	Q	B	B	B	B	B	B	B	B	B
Escherichia Coli	CFU 100ml	A	A	A	-	-	-	-	-	-	-	-	-
Enterococci		A	A	A	-	-	-	-	-	-	-	-	-
C – Continuous M – Monthly	Q – Quarterly (January, April, July, October) B – Biannually (January, July) A – Annually (July)				¹ - Sampling points for Stage 6 leachate collection only active once Stage 6 begins to accept waste ² – Using a flow meter								