



**PRAIRIE WASTE MANAGEMENT LIMITED
LANDFARM FACILITY DISPOSAL CRITERIA**

The following is a list of required analytical constituents for all soil to be disposed of at Prairie Waste Management Limited (PWML) facilities and their associated regulatory criteria. These criteria represent the maximum allowable concentrations for solid waste that can be accepted by PWML. Any materials that exceed these criteria may not be approved for disposal.

Constituent	Regulatory Criteria	Constituent	Regulatory Criteria
Total BTEX		Leachable BTEX	
Benzene	100.0 mg/kg	Benzene	0.5 mg/L
Toluene	100.0 mg/kg	Toluene	0.5 mg/L
Ethylbenzene	100.0 mg/kg	Ethylbenzene	0.5 mg/L
Xylenes	100.0 mg/kg	Xylenes	0.5 mg/L
PHC Fractions			
F1 (C6 to C10)	NC		
F2 (C10 to C16)	NC		
F3 (C16 to C34)	NC		
F4 (C34 to C50)	NC		
Total Metals		Leachable Metals	NC
Aluminum (Al)	NC	Arsenic (As)	2.5 mg/L
Antimony (Sb)	20 mg/kg	Antimony (Sb)	NC
Arsenic (As)	12 mg/kg	Barium (Ba)	100.0 mg/L
Barium (Ba)	750 mg/kg	Beryllium (Be)	NC
Beryllium (Be)	4 mg/kg	Boron (B)	500.0 mg/L
Bismuth (Bi)	NC	Cadmium (Cd)	0.5 mg/L
Cadmium (Cd)	1.4 mg/kg	Chromium (Cr)	5.0 mg/L
Calcium (Ca)	NC	Cobalt (Co)	NC
Chromium (Cr)	64 mg/kg	Copper (Cu)	NC
Cobalt (Co)	40 mg/kg	Iron (Fe)	NC
Copper (Cu)	63 mg/kg	Lead (Pb)	5.0 mg/L
Iron (Fe)	NC	Mecury (Hg)	0.1 mg/L
Lead (Pb)	70 mg/kg	Nickel (Ni)	NC
Lithium (Li)	NC	Selenium (Se)	1.0 mg/L
Magnesium (Mg)	NC	Silver (Ag)	NC
Manganese (Mn)	NC	Thallium (Tl)	NC
Molybdenum (Mo)	5 mg/kg	Uranium (U)	10.0 mg/L
Nickel (Ni)	50 mg/kg	Vanadium (V)	NC
Phosphorus (P)	NC	Zinc (Zn)	NC
Potassium (K)	NC	Zirconium (Zr)	NC
Selenium (Se)	1 mg/kg	Polycyclic Aromatic Hydrocarbons (PAHs)	
Silver (Ag)	20 mg/kg	Acenaphthene	0.28 mg/L
Sodium (Na)	NC	Acenaphthylene	320 mg/L
Strontium (Sr)	NC	Anthracene	2.5 mg/L
Thallium (Tl)	1 mg/kg	Benz(a)anthracene	0.1 mg/L
Tin (Sn)	5 mg/kg	Benzo(a)pyrene	20 mg/L
Titanium (Ti)	NC	Benzo(b)fluoranthene	0.1 mg/L
Uranium (U)	23 mg/kg	Benzo(k)fluoranthene	0.1 mg/L
Vanadium (V)	130 mg/kg	Beno(g,h,i)perylene	NC
Zinc (Zn)	200 mg/kg	Chrysene	NC
Polychlorinated (PCBs)	Biphenyls 0 mg/L (total)	Dibenz(a,h)anthracene	0.1 mg/L
Other		Fluoranthene	50 mg/L
Additionally, all solid waste must meet the following requirements:		Fluorene	0.25 mg/L
pH > 2.0 and 12.5		Indeno(1,2,3-c,d)pyrene	0.1 mg/L
Flash Point > 60 °C (Degrees Celsius)		Naphthalene	0.013 mg/L
Paint Filter Test - no free liquids		Phenanthrene	0.046 mg/L
Legend	mg/kg = milligrams per kilogram	Pyrene	0.1 mg/L
mg/L = milligrams per litre	NC = no criteria	Quinoline	0.1 mg/L