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Gunns Limited

Bell Bay Pulp Mill IIS

Soil Sample Data

6.2.21- soils quality and background levels of potential kraft mill emissions including but not limited to dioxins¹, pH levels and sodium sulfate from GPS identified typical uncultivated land at of the development site and any proposed solid waste disposal site(s).

In January 2006, GHD Pty Ltd undertook baseline soil sampling on uncultivated land at the proposed development site and the proposed landfill site. The sampling involved the collection of surface and sub-surfaces soil from two locations at the pulp mill site and two from the landfill site in accordance with the *National Environment Protection (Assessment of Site Contamination) Measure 1999, Schedule B(2) Guideline on Data Collection, Sample Design and Reporting*.

Table 1 presents the results of the soil analysis. These results were compared to the *National Environment Protection (Assessment of Site Contamination) Measure 1999, Schedule B(1) Guidelines on the Investigation Levels for Soil and Groundwater*. All results are below the soil ecologically-based investigation levels (EILs).

Table 1: Baseline soil sampling results for the pulp mill and landfill sites.

Sampling Site	Landfill				Pulp Mill					
	SS1A	SS1B	SS2A	SS2B	SS3A	SS3B	SS4A	SS4B		
Sample Depth (mm)	0	200	0	300	0	300	0	300		
Eastings	494313		494805		494029		493076			
Northings	5445433		5445200		5443682		5444239			
Analyte grouping / Analyte	Units	LOR	18/01/2006	18/01/2006	18/01/2006	18/01/2006	18/01/2006	18/01/2006	18/01/2006	
pH Value	pH Unit	0.1	5.2	5.7	5.6	5.5	5.4	5.8	5.1	5.6
Moisture Content (dried @ 103°C)	%	1	12.3	8.7	11.2	11.8	9.8	7.2	8.9	8.5
Sulphate as SO4 2-	mg/kg	50	<50	<100	<50	<50	<50	<50	<50	<50
Sodium	mg/kg	10	750	470	360	280	320	170	190	190
Antimony	mg/kg	5	<5	<5	<5	<5	<5	<5	<5	<5

¹ Including all PCDD and PCDF congeners that are required for calculation of the internationally recognised measure of toxic equivalents (TEQ).

