

Level of Assessment	STAGE 2			STAGE 3a- Dilution at source area through surrounding clean zone								STAGE 3B- Dilution of contaminant concentration through St.Bees Sandstone Infiltration												
Analyte	Measured Concentration (µg/L)	Marine EQS Screening Value (µg/L)	Value used	Type of contamination	Location	Depth of sample (m)	Estimated catchment area of contamination (m²)	Estimated catchment area of clean water (m²)	Total catchment (m²)	Percentage of Contaminated Catchment Infiltrating Total Catchment	Resultant simulated concentration as analyte enters Evaporites (µg/L)	Rainfall (m/day)	Infiltration into Source Zone and Clean Zone around Source (%)	Effective Rainfall (m/day)	Area of Source and Clean Zone Around Source (m2)	Discharge Contribution from onsite source zone and dilution zone (m3/day)	Discharge Contribution from St.Bees source zone and dilution zone (L/day)	Infiltration into St.Bees Sandstone (%)	Effective Rainfall (m/day)	Length of St.Bees Dilution Zone (m)	Width of St.Bees Dilution Zone (m)	Discharge Contribution from St.Bees Dilution Zone (L/day)	Dilution Factor	Concentration after Dilution of Clean St.Bees Water (µg/L)
Chromium	54	15	MAX	Soil leachate hotspot	TP764G	1.3	375	1125	1500	25.00%	13.5	0.0029	15%	0.0004	1500	0.66	660	7.5%	0.0002	300	39	2555	0.258	3.5
Nickel	170	30	MAX	Soil leachate hotspot	TP764G	1.3	375	1125	1500	25.00%	42.5	0.0029	15%	0.0004	1500	0.66	660	7.5%	0.0002	300	39	2555	0.258	11.0
Chromium	83	15	MAX	Groundwater hotspot	WS418	water	350	0	350	100%	83.0	0.0029	15%	0.0004	350	0.15	154	7.5%	0.0002	300	19	1234	0.125	10.4
Zinc	236	40	MAX	Groundwater hotspot	WS418	water	750	0	750	100%	236	0.0029	15%	0.0004	750	0.33	330	7.5%	0.0002	300	27	1806	0.183	43

* Pore water concentration calculated from concentration measured in soil
Exceedence of Controlled Waters Screening Criteria