Level of Assessment	STAGE 2	STAGE 3a- Dilution at source area through surrounding clean zone								
Analyte	Measured Concentration (μg/L)	Type of contamination	Location	Estimated catchment area of contamination (m²)	Estimated catchment area of clean water (m²)	Total catchment (m ²)	Percentage of Contaminated Catchment Infiltrating Total Catchment	Resultant simulated concentration as analyte enters Evaporites (μg/l)		
phosphorus	1254	US95 of shallow soil leachate and groundwater	Sitewide	400000	0	400000	100.00%	1254		

Level of Assessment		STAGE 3B- Dilution of contaminant concentration through St. Bees Sandstone Infiltration													
Analyte	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 (I/day)			Infiltration into St.Bees Sandstone (%)	Effective Rainfall (m/day)	Length of St.Bees Dilution Zone (m)		Discharge Contribution from St.Bees Dilution Zone (I/day)	Dilution	Concentration after Dilution of Clean St.Bees Water (µg/l)
phosphorus	0.0029	15%	0.0004	400000	175.89	175890	220654160	0.0029	7.5%	0.0002	300	800	52767	0.77	965

	Dilution as phosphorus enters sea, and subsquent dilution along the coastline											
Dilutions based on Westlakes Report	Effluent Flow Rate (m³/hour)	Tidal State	Predicted Concentration entering the sea (μg/l)	Initial Dilution Factor (as water enters Sea)	Resultant Concentration at entry to Sea (µg/l)	Second Dilution Factor (as water dilutes towards compliance point 2.25km away)	Cumulative Dilution Factor (Dilution 1 x Dilution 2)	Resultant concentration at compliance point (µg/l)	Required Standard (μg/l)			
	10	LW	965	10	96	55	550	1.75	6.2			
Neap Tide	10	HW	965	118	8	30	3540	0.27	6.2			
	10	LW	965	2.4	402	209	502	1.92	6.2			
Spring Tide	10	HW	965	232	4	117	27144	0.04	6.2			

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