Buckland Dry Creek Pty Ltd

Dry Creek Salt Field PEPR Revision 4 v.1

Appendix 16

Environmental Risk Assessment for Dry Creek Salt Field - Closure works

RISK ASSESSMENT

Environmental Aspect	Event ID	Potential Impact Event	Description of Impact / Expected Impact	Significance of Impact	Applicable Regulatory Standard	Control strategies	Uncertainties	Likelihood of greater impact than expected	Possible level of impact (Consequence)	Risk Rating	Outcome
Surface Water	SW1	Stormwater entering PM248 from offsite degrading water quality on site	No impact expected	Negligible	No	Maintenance of bund and seepage drain around site	Low - water movement aorund site is well known	Unlikely	Low	Negligible	No outcome required
Surface Water	SW2	Changes to surface water flows affecting adjoining land uses.	No impact expected	Negligible	EPA licensed discharge point	Existing surface water management structures retained including bunding to ensure stormwater does not leave the site in an uncontrolled way.	Design of bluk earthworks not confirmed at this stage - will be determined through trial	Rare	Moderate	Low	No adverse impacts to use of adjacent land or water
Air Quality	A1	Dust from transport and unloading of fill affecting the amenity of adjoining human receptors	No measurable impact expected	Negligible	No	Maintain moisture content in fill. Use of water sprays when needed	Composition of fill material	Unlikely	Low	Moderate	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise
Air Quality	A2	Dust from transport and unloading of fill affecting the health of adjoining human receptors	No measurable impact expected	Negligible	Yes - National Environment Protection (Ambient Air Quality) Measure	Maintain moisture content in fill. Use of water sprays when needed	Composition of fill material	Unlikely	Low	Negligible	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise
Air Quality	A3	Dust from earthworks affecting the amenity of adjoining human receptors	No measurable impact expected	Negligible	No	Revegetation of exposed areas or tother surface treatment Implementation of air quality monitoring plan and remedial measures where needed	Design of bulk earthworks and surface cover. Background levels of dust	Unlikely	Low	Negligible	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise
Air Quality	A4	Dust from earthworks affecting the health of adjoining human receptors	No measurable impact expected	Negligible	Yes - National Environment Protection (Ambient Air Quality) Measure	Revegetation of exposed areas or tother surface treatment Implementation of air quality monitoring plan and remedial measures where needed	Design of bulk earthworks and surface cover. Background levels of dust	Unlikely	Low	Negligible	N/A
Air quality	A5	Dust from exposed ground surfaces affecting the amenity of adjoining human receptors	Short term episodic impacts	Low	No	Revegetation of exposed areas or tother surface treatment Implementation of air quality monitoring plan and remedial measures where needed	Design of bulk earthworks and surface cover. Background levels of dust	Unlikely	Moderate	Low	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise.
Air Quality	A6	Dust from exposed ground surfaces affecting the health of adjoining human receptors	No measurable impact expected	Negligible	Yes - National Environment Protection (Ambient Air Quality) Measure	Revegetation of exposed areas or tother surface treatment Implementation of air quality monitoring plan and remedial measures where needed	Design of bulk earthworks and surface cover. Background levels of dust	Unlikely	Low	Negligible	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise.
Air Quality	A7	Dust from exposed ground surfaces affecting adjoining areas of conservation significance	No measurable impact expected	Negligible	No	Revegetation of exposed areas or tother surface treatment Implementation of air quality monitoring plan and remedial measures where needed	Design of bulk earthworks and surface cover. Background levels of dust	Unlikely	Low	Negligible	No adverse public health and or significant nuisance impacts due to air emissions, dust, odour, or noise.
Soil Quality (Contamination, Salinity and Acid Sulphate)	SQ1	Contamination of soil from leaks or spills impacts on current or future land uses	Any spills or leaks expected to be contained and/or of a magnitude that will allow easy clean-up	Negligible	NEPM	Bunding and spill kits	Detail of bulk earthworks operations and equipment required still subject to change	Unlikely	Low	Negligible	No compromise to potential future land use No adverse impacts to use of adjacent land or water

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Soil Quality (Contamination, Salinity and Acid Sulphate)	SQ2	Exposure to salt impacted soils compromises future land use	No impact expected	Negligible	No	Fill design with capillary break	Design of fill including capillary break (being developed through trial)	Rare	Moderate	Low	No compromise to potential future land use No adverse impacts to adjacent land use.	
Noise	N1	Noise from machinery used in bulk earthworks affecting adjoining residents	Within regulatory limits and generally within background levels	Low	Yes - Environment Protection (Noise) Policy 2007	All equipment, including that used by contractors, is required to comply with relevant noise control policies and guidelines issued by the EPA	The equipment to be used in bulk earthworks has not yet been determined but can be reasonably assumed.	Unlikely	Low	Negligible	No adverse public health or significant nuisance impacts due to noise.	