

Environmental Element	Potential Impact Event	Objective/s
Public health and safety	PHS1 <i>unauthorised access by third parties</i>	Minimise risks to the health and safety of the public associated with drilling, completion and well production testing activities (OB-01)
	PHS2 <i>vehicles on public roads</i>	
	PHS3 <i>fire from activities</i>	
	PHS4 <i>loss of well integrity (e.g. casing or cement failure)</i>	
	PHS5 <i>well control incidents (e.g. blowout or kick)</i>	
Heritage (Aboriginal and non-Aboriginal)	H1 <i>Aboriginal cultural sites</i>	Avoid disturbance to sites of cultural and heritage significance due to activities requiring soil disturbance (OB-02)
	H2 <i>non-Aboriginal cultural sites</i>	
Soil	S1 <i>erosion, inversion, compaction</i>	Minimise disturbance to and avoid contamination of soil (OB-03)
	S2 <i>localised contamination of soil - spills and leaks</i>	Ensure timely and effective rehabilitation of adversely affected land (OB-04)
	S3 <i>contamination of soil - well control incidents</i>	
	S4 <i>contamination of soil - loss of well integrity</i>	
Groundwater	GW1 <i>contamination, salinisation, crossflow, or loss of pressure of groundwater -drilling</i>	Minimise loss of aquifer pressures and avoid aquifer contamination (OB-05)
	GW2 <i>contamination of groundwater - radioactive source loss</i>	Avoid contamination of shallow groundwater resources (OB-06)
	GW3 <i>contamination, over-pressurisation or crossflow of groundwater - loss of well integrity</i>	
	GW4 <i>localised contamination of groundwater - spills or leaks</i>	
Surface water	SW1 <i>disturbance to natural drainage patterns</i>	Minimise disturbance to drainage patterns and avoid contamination of surface waters (OB-07)
	SW2 <i>sedimentation of surface waters</i>	
	SW3 <i>contamination of surface water - well control incidents</i>	
	SW4 <i>contamination of surface water - downhole drilling issues</i>	

SA Otway Drilling, Completions and Well Testing Operations EIR and SEO

Summary of Environmental Elements, Potential Impact Events and Objectives

Environmental Element	Potential Impact Event	Objective/s
	<i>SW5 contamination of surface water - loss of well integrity</i>	
	<i>SW6 uncontrolled release of water and hydrocarbon to surface</i>	
	<i>SW7 localised contamination of surface water - spills and leaks</i>	
Air quality / greenhouse gas	<i>AQ1 dust generation</i>	Minimise reduction in air quality (OB-08)
	<i>C1 contribution to climate change through greenhouse gas emissions (including flaring)</i>	Minimise atmospheric emissions (OB-09)
Existing land use and infrastructure	<i>LU1 disturbance to land use (including livestock)</i>	Minimise disturbance to existing land users and infrastructure (OB-10)
	<i>LU2 damage to third party infrastructure</i>	
Native fauna	<i>NF1 disturbance, injury or death of fauna - earthworks, weeds</i>	Minimise disturbance to native fauna and fauna habitat (OB-11)
	<i>NF2 disturbance, injury or death of fauna - fire</i>	
	<i>NF3 disturbance, injury or death of fauna - vehicle strike</i>	
	<i>NF4 disturbance, injury or death of native fauna - well control incidents</i>	
	<i>NF5 disturbance, injury or death of native fauna - wastes, spills and leaks</i>	
Native vegetation	<i>NV1 damage to native vegetation and wildlife habitats - earthworks</i>	Minimise disturbance to native vegetation (including wetland communities) (OB-12)
	<i>NV2 damage to native vegetation and wildlife habitats - spills and leaks</i>	Ensure timely and effective rehabilitation of adversely affected land (OB-04)
	<i>NV3 damage to native vegetation and wildlife habitats - fire</i>	
	<i>NV4 loss of vegetation and habitat - weeds, pests and plant pathogens</i>	
General amenity	<i>GA1 general amenity impact - visual</i>	Minimise the impact of operations on general amenity (OB-13)
	<i>GA2 general amenity impact - noise emissions</i>	Ensure timely and effective rehabilitation of adversely affected land (OB-04)