

| REFEREN CE | TYPE OF IMPACT | EVENT(S) | POTENTIAL CONSEQUEN CES | PREDICTABILITY | | | | | | MANAGEABILITY | | | | | | COMMENTS | Environmental significance | |
|---|-------------------|---|--|----------------|-------|----------|-----------|--------------|--------------|---------------|-------------|----------|----------------|--------------------|--------------|----------|---|--------------|
| | | | | SIZE | SCOPE | DURATION | FREQUENCY | STAKEHOLDERS | SIGNIFICANCE | AVOIDANCE | PROBABILITY | DURATION | SIZE AND SCOPE | CUMULATIVE EFFECTS | STAKEHOLDERS | | | SIGNIFICANCE |
| SEO p. 3, 10, 11 & 13; EIR p. 16, 22, 24, 31, 36 & 37 | | Seismic line, access track and camp site preparation and restoration - movement/exposure of soils | Soil erosion and/or compaction; bogging | H | M | H | H | M | 2 | No | Med | Short | Small | Some | Med | 2 | Management strategies include: - Minimal line clearance using slashing/rolling techniques are employed, resulting in the retaining of rootstock; - In sensitive or densely vegetated areas other line celaring techniques with even less impact can be used; - reforming road side edges at road/seismic line intersections; - maintaining significant or creek bed vegetation; - extra considerations made and alternative preparation techniques implemented in wetland areas (i.e. the use of hand held equipment to remove the need for vehicle access); and - when applicable, previously established survey tracks utilised for access or survey lines. | Low |
| SEO p. 3, 10, 11 & 13; EIR p. 16, 22, 24, 31, 36 & 37 | | Movement of vehicles along seismic lines and access tracks | Soil erosion and/or compaction (wheel tracks, ruts and dust generation). | H | H | H | H | H | 1 | No | Med | Short | Small | Some | Med | 2 | Effects are minimised by using established tracks and prohibiting off-line driving, particularly when driving in wet conditions. Management procedures include ripping compacted areas and using all detours and doglegs. Susceptible areas and ground deemed unconducive to support heavy vehicles are avoided. | Low |
| SEO p. 3, 10, 11 & 13; EIR p. 16, 23, 24, 25 & 31 | | Line surveying and recording | Soil erosion and/or compaction | H | M | H | H | H | 2 | No | Med | Short | Small | Some | Med | 2 | Effects are minimised by using established tracks and prohibiting off-line driving and driving when wet. Existing wheel tracks are not followed. | Low |

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| SEO p. 3, 10 & 11; EIR 24, 32, 33, 36 & 37 | | Fuel, oil and other contaminant spills | Contamination of soils | H | H | H | H | H | 1 | N | Low | Short | Small | Small | Low | 1 | Immediate clean up and remediation. Spill kits readily available. Refuelling only takes place in designated areas where any spills are easily confined; therefore the volume of other spills is likely to be minimal. | L o w |
| SEO p. 3, 10 & 11; EIR 24, 32, 33, 36 & 37 | | Storage and transportation of domestic wastes/wastewater and sewerage | Contamination of soils | H | H | H | H | H | 1 | Y | Low | Short | Small | Small | Low | 1 | In the Otway Basin accommodation facilities in townships are normally used to house geophysical crews. However when a campsite is established, all solid wastes collected in one area of campsite in suitably covered bins. Minimum amounts of waste planned to be generated and will be later removed. Recycling occurs. Chemical toilets are used for basic treatment at all camp sites and taken by truck to a designated sewerage disposal point. | L o w |
| SEO p. 3, 10, 11 & 13; EIR 24, 32, 33, 36 & 37 | | Disposal and storage of waste - uphole drilling muds | Contamination of soils | H | H | H | H | H | 1 | N | Low | Short | Small | Small | Low | 1 | Non-toxic muds used. Drill holes are backfilled with the cuttings. Any excess cuttings are either collected and disposed at an authorised facility or are pigmented to match the surrounding terrain. | L o w |
| Air | | | | | | | | | | | | | | | | | | |
| SEO p. 3 & 12; EIR p. 24 & 25 | | Burning of wastes | Localised air pollution | H | H | H | H | H | 1 | Y | Low | Short | Small | Small | Low | 1 | No burning of wastes shall be undertaken as dumping facilities are available throughout the Otway Basin. (NB In the Otway Basin accommodation facilities in townships are normally used.) | L o w |
| SEO p. 3 & 12; EIR p. 23, 24, 32, | | Movement of vehicles along seismic lines and | Rising of dust | H | H | H | H | H | 1 | Y | Low | Short | Small | Small | Low | 1 | Susceptible tracks are avoided. Vehicles travel at slow speeds near homesteads and associated | L o w |

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| 36 & 37 | | tracks | | | | | | | | | | | | | | infrastructure etc. | | |
| Surface Water Impacts | | | | | | | | | | | | | | | | | | |
| SEO p. 3, 10 & 13; EIR p. 13, 24, 34 & 36 | | Seismic line and access track preparation | Disturbance to watercourse (or other form of natural or human-made drainage) and/or flow | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | In the Otway Basin accommodation facilities in townships are normally used. Campsites -if used- are selected in clear areas which are away from water courses. No ground preparation carried out for campsites. | L o w |
| SEO p. 3, 10 & 13; EIR p. | | Fuel, oil and other contaminant spills | Pollution of surface waters, including sensitive wetlands | H | H | H | H | H | 1 | Y | Low | Short | Small | None | Low | 1 | Appropriate procedures and guidelines include: - fuel, oil and contaminant spills treated immediately with spill kits; - if appropriate, ground is ripped; and - refuelling points enclosed in designated areas, away from water courses. Incidents are likely to be of a small scale. | L o w |
| Groundwat er Impacts | | | | | | | | | | | | | | | | | | |
| SEO p. 3, 10 & 11; EIR p. 13, 24, 25, 34 & 37 | | Storage and transportation of domestic wastes/wastewater and sewerage | Localised contamination of groundwater | H | H | H | H | H | 1 | Y | Low | Short | Small | Some | Low | 1 | Appropriate procedures and guidelines include: - minimise generation of waste; - providing of suitable covered bins; and - all loads of rubbish leaving camps covered to ensure no spillage; (NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |

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| SEO p. 3, 10 & 11; EIR p. 13, 24, 25, 32, 34, 36, 37 | | Fuel, oil and other contaminant spills | Localised contamination of groundwater | H | H | H | H | H | 1 | Y | Low | Short | Small | Some | Low | 1 | Appropriate procedures and guidelines include: - fuel, oil and contaminant spills treated immediately with spill kits; - relevant grounds ripped; and - refuelling stations enclosed in designated areas. Incidents are likely to be of a small scale. | Low |
| SEO p. 3, 10, 11 & 13; EIR p. 13, 24, 29, 31, 34, 35 & 37 | | Uphole drilling through artesian aquifers | Uncontrolled discharge of groundwater | H | H | H | H | H | 1 | Y | Low | Short | Small | None | Low | 1 | Priority is to engage drillers experienced in recognising Dilwyn Formation. Concrete plug immediately placed if formation intersected - standard procedures followed. Consultation with relevant officers and/or hydrogeologists takes place and Dilwyn formation depth maps used in planning uphole survey. Continuous monitoring is required to ensure its effectiveness. | Low |
| Flora Impacts | | | | | | | | | | | | | | | | | | |
| SEO p. 3, 6, 9, 11 & 13; EIR p. 20 & 33 | | Movement of vehicles and allied foot traffic | Introduction and spread of weed species, diseases and pathogens | M | M | M | H | M | 2 | Y | Low | Long | Small | Many | Med | 3 | All vehicles and equipment are washed down prior to entering the Otway Basin or before leaving known infested locations within the Basin itself. Weed and disease management strategies are to be developed by operators and control measures put in place. | Low |
| SEO p. 3, 6, 9 & 13; EIR p. 20 & 33 | | Fuel, oil and other contaminant spills | Vegetation damage and/or loss; impacts on species diversity | H | H | H | H | M | 1 | N | Low | Short | Small | Some | Med | 2 | Appropriate procedures and guidelines include: - fuel, oil and contaminant spills treated immediately with spill kits; - where appropriate ground is ripped; and - refuelling stations enclosed in | Low |

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| | | | | | | | | | | | | | | | | designated and banded areas on well drained ground. Incidents are likely to be of a small scale. | | |
| SEO p. 3, 6, 9 & 13; EIR p. 10, 20, 33 & 37 | | Seismic line and access track preparation and restoration | Vegetation damage and/or loss; impacts on species diversity | M | H | H | H | M | 1 | N | Med | Med | Med | Some | Med | 3 | Appropriate procedures include - avoiding significant vegetation and threatened species; - trim (brush cut) rather than Hydro-ax slash vegetation in sensitive areas (such as wetlands); - cables hand carried through narrow strips of vegetation; - no blading, leaving topsoil, rootstock and seedbanks in place; - facilitate regrowth by resspreading mulched vegetation over site; - facilitate regrowth by ripping compacted areas; and - wheel ruts infilled and tracks resmoothed. | L o w |
| SEO p. 3, 6, 9 & 13; EIR p. 10, 20, 33 & 37 | | Movement of vehicles | Vegetation damage and/or loss; impacts on species diversity | H | H | H | H | H | 1 | N | Med | Med | Med | Some | Med | 3 | Drive only on designated areas (ie lease and access tracks). Areas of vegetation (for habitats) avoided as much as possible. | L o w |
| SEO p. 3, 6, 9, 11 & 13; EIR p. 19, 20, 24 & 33 | | Campsite preparation and site access | Vegetation damage and/or loss; impacts on species diversity | H | H | H | H | H | 1 | Y | Low | Short | Small | Small | Low | 1 | Campsites are selected in clear areas which are naturally devoid of vegetation. Site access impacts are reduced by locating sites adjacent to established tracks and using only these for access.(NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |

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| Fauna Impacts | | | | | | | | | | | | | | | | | | |
| SEO p. 3, 9 & 11; EIR p. 23, 24, 33, 35 & 37 | | Seismic line and access track preparation | Disturbance, injury or loss of fauna | H | H | H | M | M | 1 | N | Low | Short | Small | None | Low | 1 | Drive only on designated areas (ie lease and access tracks). Areas of vegetation (for habitats) avoided as much as possible. | L o w |
| SEO p. 3, 9 & 11; EIR p. 23, 24, 33, 35 & 37 | | Movement of heavy vehicles (including campsite moves) | Disturbance, injury or loss of fauna | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Drive only on designated areas (ie lease and access tracks). Areas of vegetation (for habitats) avoided as much as possible. | L o w |
| SEO p. 3, 9 & 11; EIR p. 23, 24, 33, 35 & 37 | | Movement of heavy vehicles (including campsite moves) | Loss of faunal habitat | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Drive only on designated areas (ie lease and access tracks). Areas of vegetation (for habitats) avoided as much as possible. | L o w |
| SEO p. 3, 9 & 11; EIR p. 23, 24, 33, 35 & 37 | | Campsite preparation and site access | Disturbance, injury or loss of fauna | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Campsites should be located at least 1 km from stock watering holes to minimise interaction/contact with stock. Camps must not be located near watercourses, creeks or other surface water bodies to minimise interaction/contact with associated fauna. (NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |
| SEO p. 3, 9 & 11; EIR p. 23, 24, 33, 35 & 37 | | Storage and transportation of domestic wastes | Scavenging by pest and native species | H | H | H | H | H | 1 | Y | Low | Short | Small | Some | Low | 1 | Appropriate procedures and guidelines include: - minimise generation of waste; - providing of suitable covered bins; - all loads of rubbish leaving camps covered to ensure no spillage; and - all other wastes managed effectively. (NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |

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| SEO p. 3, 12 & 13; EIR p. 19, 24, 25, 28 & 32 | | Seismic line, access track and camp site preparation and restoration | Damage to third party infrastructure | H | M | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Minimise any disturbance by careful site selection, including: - driving on designated access tracks only; and - avoiding homesteads, associated buildings, stockyards, airstrips, dams, tanks and irrigation infrastruture etc. (NB In the Otway Basin accommodation facilities in townships are normally used) | Low |
| SEO p. 3, 12 & 13; EIR p. 19, 24, 25, 28, 32, 36 & 37 | | Movement of vehicles (including camp site moves) | Damage to third party infrastructure, including public roads | H | M | H | H | H | 2 | N | Low | Short | Small | None | Med | 2 | Drive only on designated areas (ie lease and access tracks, seismic lines). Lines and tracks are deviated to miss local infrastructure. Survey vehicle use of public roads is usually of a short duration when accessing intersecting seismic lines. If seismic data is acquired along or across a road, the appropriate traffic management safety strategies are implemented. Compensation to be paid for any damage caused. (NB In the Otway Basin accommodation facilities in townships are normally used) | Low |
| SEO p. 3, 12 & 13; EIR p. 19, 24, 25, 28 & 32 | | Line surveying and recording | Damage to third party infrastructure | H | H | H | H | H | 1 | N | Low | Short | Small | None | Med | 1 | Drive only on designated areas (ie lease and access tracks, seismic lines). Lines and tracks are deviated to miss well heads by 30 m. Traffic is detoured around pipelines or are crossed at authorised points only. No vibroseis operation within 20m of buildings. | Low |

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| SEO p. 3 & 11; EIR p. 16, 23, 31 & 35 | | Seismic line, access track and camp site preparation and restoration | Loss of visual amenity | H | H | H | H | M | 2 | N | Low | Med | Small | Some | Med | 2 | Appropriate procedures and guidelines include: - survey lines are prepared to a width of only 4-5 m; - slashing is the preferred preparation technique; - survey lines include weaves to break line of sight (using established vegetation when applicable). | Low |
| SEO p. 3 & 11; EIR p. 16, 23, 31 & 35 | | Uphole drilling and logging | Loss of visual amenity | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Uphole cuttings are primarily returned to hole. Any excess cuttings are either collected and disposed at an authorised facility. | Low |
| SEO p. 3 & 11; EIR p. 16, 23, 31 & 35 | | Litter/rubbish | Loss of visual amenity | H | H | H | H | M | 1 | Y | Low | Short | Small | None | Low | 1 | All litter is to be removed from field sites (especially camp sites). (NB In the Otway Basin accommodation facilities in townships are normally used) | Low |
| Cultural & Heritage Impacts | | | | | | | | | | | | | | | | | | |
| SEO p. 3 & 11; EIR p. 25, 27, 28, 32, 36 & 37 | | Disturbance during seismic line and access track preparation and restoration | Damage sites of cultural significance | H | H | H | H | M | 2 | N | Low | Short | Small | None | Low | 1 | Cultural heritage surveys are conducted, using experienced anthropologists and people representing the appropriate heritage committees (i.e. Murrapeena and Kungari Committees) to identify sites and duly mark them off to prevent disturbance.-Crews preparing lines and sites are trained to locate any other potential sites found for verification by the appropriate heritage committee/anthropologist. | Low |
| SEO p. 3 & 11; EIR p. 25, 27, 28, 32, 36 & 37 | | Campsite preparation | Damage sites of cultural significance | H | H | H | H | M | 2 | N | Low | Short | Small | None | Low | 1 | Campsites are located adjacent to previous tracks which were likely to be encompassed in previous cultural heritage surveys. (NB In the Otway | Low |

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| | | | | | | | | | | | | | | | | Basin accommodation facilities in townships are normally used) | | |
| SEO p. 3 & 11; EIR p. 25, 27, 28, 32, 36 & 37 | | Movement of vehicles (including camp site moves) | Damage sites of cultural significance | H | H | H | H | M | 2 | N | Low | Short | Small | None | Low | 1 | Access is along prepared lines only which have been altered to avoid cultural heritage sites. At sites of some cultural significance, vehicles are excluded and receiver lines are laid out on foot. (NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |
| | Community Health & Safety | | | | | | | | | | | | | | | | | |
| SEO p. 3 & 12; EIR p. 25, 32 & 36 | | Movement of vehicles (including camp site moves) | Collisions with other road uses | H | H | H | H | M | 2 | N | Low | Short | Small | Some | Med | 2 | Appropriate procedures and guidelines include: - driver training; - road signage; - appropriate approved warning signage will be placed in consultation with the local police; and -adherence to speed limits. If seismic data is acquired along or across a road, the appropriate traffic management safety strategies are implemented. Seismic surveys have had an extremely low incidence of collisions in the Otway Basin with no occurrences in at least the last 17 years. (NB In the Otway Basin accommodation facilities in townships are normally used) | L o w |

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| SEO p. 3 & 12; EIR p. 25, 32 & 36 | | Fuel, oil and other contaminant spills | Injury or loss of livestock | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Appropriate procedures and guidelines include: - fuel, oil and contaminant spills treated immediately with spill kits; - if appropriate relevant ground is ripped; and - refuelling stations enclosed in designated areas on well drained grounds. Incidents are likely to be of a small scale. | L o w |
| SEO p. 3 & 12; EIR p. 25, 32 & 36 | | Fuel, oil and other contaminant spills | Disruption to land use (eg grazing) | H | H | H | H | H | 1 | N | Low | Med | Small | Some | Med | 2 | Appropriate procedures and guidelines include: - fuel, oil and contaminant spills treated immediately with spill kits; - where appropriate, relevant ground is ripped; and - refuelling stations enclosed in designated areas on well drained grounds. Incidents are likely to be of a small scale. | L o w |
| SEO p. 3 & 12; EIR p. 23, 24, 33, 35 & 37 | | Seismic line, access track and camp site preparation and restoration and other movement of vehicles | Injury or loss of livestock | H | H | H | H | H | 1 | N | Low | Short | Small | Some | Low | 1 | Drive only on designated areas (ie lease and access tracks, seismic lines). Campsites are to be located at least 1 km from stock watering holes to minimise interaction/contact with stock. (NB In the Otway Basin accommodation facilities in townships are normally used) The speed of data acquisition averages eight kms per day. Line recording only occurs for a few hours at any specific site with little impact to farming | L o w |

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| | | | | | | | | | | | | | | | | | or significant interference to the land owner. In any case, occupiers will be consulted and notified and, where necessary, be compensated for any deprivation of the use or damage to the land. | |
| SEO p. 3 & 12; EIR p. 20 & 33 | | Movement of vehicles (including campsite moves) | Introduction and spread of weed species, diseases and pathogens | M | M | M | H | H | 2 | N | Low | Long | Med | Many | Med | 3 | All vehicle and equipment are washed down prior to entering the Otway Basin or before leaving known infested locations within the basin itself. Weed and disease management strategies are to be developed by operators and control measures put in place. | Low |
| SEO p. 3 & 12; EIR p. 23, 24, 25, 31, 33, 35 & 37 | | Disposal of uphole drill cuttings and muds to ground surface | Access to livestock to contaminants | H | H | H | H | H | 1 | N | Low | Short | Small | None | Low | 1 | Non-toxic muds used. Uphole cuttings are primarily returned to hole. Any excess cuttings are either collected and disposed of at an authorised facility. | Low |
| SEO p. 3 & 12; EIR p. 23, 25, 32, 36 & 37 | | General operations | Wildfire initiated by seismic operations | H | H | H | H | H | 1 | Y | Low | Short | Med | Some | Med | 2 | Wildfire prevention is a key component in seismic operations with the requirement for comprehensive fire prevention management system to be in place for all operations | Low |