

APPENDIX I

Risk Assessments

Risk assessment for TEC vegetation

Objective: To ensure that impacts to TEC vegetation are avoided and minimised as far as practicable during the construction and operation of the Proposal

Key environmental values: TEC vegetation

For more information on the proposed monitoring of potential impacts to TEC, refer to the Vegetation Monitoring Program (Appendix J of the Southern Section Additional Information for Preliminary Documentation)

| ENVIRONMENTAL OBJECTIVE | PERFORMANCE TARGET / OUTCOME | POTENTIAL IMPACT | NATURE OF IMPACT | PRE-CONTRO | L RISK | | MANAGEMENT | POST CONTROL RISK | | | CONFIDENCE |
|---|---|--|--|------------|------------------------|-----------------|--|-------------------|------------------------|-----------------|------------|
| | | | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | LEVEL |
| Minimise the area of TEC vegetation cleared during construction | Reduce clearing of TEC vegetation to the extent practicable in final design Avoid clearing outside the approved footprint | Clearing or disturbance of TEC vegetation outside of the approved clearing area | Known, predictable, irreversible | Possible | Moderate | Medium | Standard construction management to control construction clearing | Unlikely | Moderate | Low | High |
| No significant indirect impacts to monitored TEC vegetation adjacent to the Proposal attributable to Proposal implementation | Avoid indirect impacts to monitored TEC vegetation adjacent to the Proposal Area | Reduction in quality / condition of monitored TEC vegetation | Known, predictable Irreversible for <i>Phytophthora</i> dieback Potentially irreversible for surface water Reversible for WONS and Declared Plants | Possible | Moderate | Medium | Implement WONS, Declared Plant, surface water, and <i>Phytophthora</i> dieback management measures within Proposal Area vegetation / revegetation and monitored TEC vegetation Standard construction management to control construction clearing | Unlikely | Minor | Low | High |
| | | Bushfire occurrence as a result of Proposal construction resulting in loss of monitored TEC vegetation | Known, unpredictable, irreversible | Possible | Moderate | Medium | Standard construction management to control potential ignition sources during construction | Possible | Moderate | Medium | High |
| | | Groundwater drawdown impacts on or changes in hydrology of monitored TEC vegetation | Known, predictable, potentially irreversible | Unlikely | Moderate | Medium | Standard construction management to control groundwater water abstraction consistent with WA Government water supply approvals | Unlikely | Moderate | Low | High |

Risk assessment for Black Cockatoos

Objective: To ensure that impacts to Black Cockatoos are avoided and minimised as far as practicable during the construction and operation of the Proposal

Key environmental values: Black Cockatoo individuals and foraging / breeding (nesting) habitat

For more information on the proposed management of potential impacts to Black Cockatoos, refer to the Black Cockatoo Action Management Plan (Appendix L of the Southern Section Additional Information for Preliminary Documentation)

| ENVIRONMENTAL OBJECTIVE | PERFORMANCE TARGET / OUTCOME | POTENTIAL IMPACT | NATURE OF IMPACT | PRE-CONTRO | L RISK | | MANAGEMENT | POST CONTROL RISK | | | CONFIDENCE |
|---|---|---|--|------------|------------------------|-----------------|--|-------------------|------------------------|-----------------|------------|
| | | | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | LEVEL |
| Minimise impacts to | Avoid direct impacts to | Injury or death of Black | Known, predictable, irreversible | Possible | Moderate Medium | Medium | Nil risk of impact to mature individuals | Unlikely | Minor | Low | High |
| Black Cockatoos | Black Cockatoos Preclude potential breeding within Proposal Area prior to construction | Cockatoos during Proposal implementation | | | | | Management required during construction for risk of impact to nesting adults / young | | | | |
| | | | | | | | Preconstruction survey of suitable hollows and ongoing monitoring | | | | |
| | | | | | | | Preclude access to hollows prior to breeding season | | | | |
| Minimise the area of Black Cockatoo foraging habitat cleared during construction | Reduce clearing of Black Cockatoo habitat to the extent practicable in final design | Clearing or disturbance of Black Cockatoo habitat outside of the approved clearing area | Known, predictable, irreversible | Possible | Moderate | Medium | Standard construction management to control construction clearing | Unlikely | Moderate | Low | High |
| | Avoid clearing outside the approved footprint | | | | | | | | | | |
| No significant indirect impacts to Black Cockatoo habitat adjacent to the Proposal attributable to Proposal implementation | adjacent to the Proposal Area | Reduction in function and value of adjacent habitat | Known, predictable, reversible (irreversible for <i>Phytophthora</i> dieback) | Possible | Moderate | Medium | Implement WoNS, Declared Plant, surface water, and <i>Phytophthora</i> dieback management measures within Proposal Area vegetation / revegetation Standard construction management to control construction clearing | Unlikely | Minor | Low | High |
| | | Bushfire occurrence as a result of Proposal construction resulting in loss of adjacent Black Cockatoo habitat | Known, unpredictable, irreversible | Possible | Moderate | Medium | Standard construction management to control potential ignition sources during construction | Possible | Moderate | Medium | High |
| | | Groundwater drawdown impacts on or changes in hydrology of adjacent Black Cockatoo habitat | Known, predictable, reversible | Unlikely | Moderate | Low | Standard construction management to control groundwater water abstraction consistent with WA Government water supply approvals | Unlikely | Moderate | Low | High |
| Re-establish Black Cockatoo habitat in identified rehabilitation areas as per design specifications | Rehabilitation provides suitable foraging habitat within 10 years of completion | Failure to establish quality foraging habitat | Known, predictable, reversible | Unlikely | Minor | Low | Management to establish and maintain rehabilitation | Unlikely | Minor | Low | High |

Risk assessment for WRP

Objective: To ensure that impacts to WRP are avoided and minimised as far as practicable during construction and operation of the Proposal

Key environmental values: WRP individuals and habitat

For more information on the proposed management of potential impacts to WRP, refer to the Conservation Significant Fauna Action Management Plan (Appendix M of the Southern Section Additional Information for Preliminary Documentation)

| ENVIRONMENTAL OBJECTIVE | PERFORMANCE TARGET / OUTCOME | POTENTIAL IMPACT | NATURE OF IMPACT | PRE-CONTRO | CONTROL RISK MANAGEMENT | | | POST CONTROL RISK | | | CONFIDENCE |
|--|--|---|--|------------|--|-----------------|--|-------------------|------------------------|-----------------|------------|
| | | | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | (see the Conservation Significant Fauna Action Management Plan (BORR IPT 2020)) | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | LEVEL |
| Minimise impacts to WRP | Avoid direct impacts to WRP individuals Preclude use of refuge sites within the Proposal Area prior to construction | Injury or death of WRP individuals during Proposal implementation | Known, predictable, irreversible | Possible | Moderate | Medium | Management during construction for risk of impact to WRP individuals Pre-construction survey of suitable refuge sites and ongoing monitoring Preclude access to refuge sites prior to clearing Installation of Possum fence as per specification | Unlikely | Moderate | Low | High |
| Minimise area of WRP habitat cleared during construction | Reduce clearing of WRP habitat to the extent practicable in final design Avoid clearing outside the approved footprint | Clearing or disturbance of WRP habitat outside of the approved clearing area | Known, predictable, irreversible | Possible | Moderate | Medium | Standard construction management to control construction clearing | Unlikely | Minor | Low | High |
| No significant indirect impacts to WRP habitat adjacent to the Proposal attributable to Proposal implementation | Avoid indirect impacts to WRP in adjacent habitat | Reduction in WRP habitat quality / condition (function and value) adjacent to the Proposal | Known, predictable, reversible (irreversible for <i>Phytophthora</i> dieback) | Possible | Moderate | Medium | Implement WONS, Declared Plant, surface water, and <i>Phytophthora</i> dieback management measures within Proposal Area vegetation / revegetation Standard construction management to control construction clearing | Unlikely | Minor | Low | High |
| | | Bushfire occurrence as a result of Proposal construction resulting in loss of adjacent WRP habitat | Known, unpredictable, irreversible | Possible | Moderate | Medium | Standard construction management to control potential ignition sources during construction | Possible | Moderate | Medium | High |
| | | GroundwaterKnown,Unlikelydrawdown impacts on or changes in hydrology of adjacent WRP habitatreversible | Moderate | Low | Standard construction management to control groundwater water abstraction consistent with WA Government water supply approvals | Unlikely | Moderate | Low | High | | |
| | Maintain connectivity between known WRP habitat areas Avoid indirect impacts to WRP in adjacent habitat | Engineered movement structures not installed and / or ineffective | Known, predictable, reversible | Possible | Moderate | Medium | Installation of engineered movement structures as per specification, on-going monitoring and responsive management Targeted rehabilitation and maintain access to water at engineered movement structure locations adjacent to the Proposal Area to make utilisation of structures attractive and effective for WRP | Possible | Moderate | Medium | High |

Risk assessment for BSM

Objective: To ensure that impacts to BSM are avoided and minimised as far as practicable during construction and operation of the Proposal

Key environmental values: BSM individuals and habitat

For more information on the proposed management of potential impacts to BSM, refer to the Conservation Significant Fauna Action Management Plan (Appendix M of the Southern Section Additional Information for Preliminary Documentation)

| ENVIRONMENTAL OBJECTIVE | PERFORMANCE TARGET / OUTCOME | POTENTIAL IMPACT | NATURE OF | PRE-CONTRO | L RISK | | MANAGEMENT (see the <i>Conservation Significant Fauna</i> <i>Action Management Plan</i> (BORR IPT 2020)) | POST CONTROL RISK | | | CONFIDENCE |
|---|---|--|--|------------|------------------------|-----------------|---|-------------------|------------------------|-----------------|------------|
| | | | ІМРАСТ | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | | LIKELIHOOD | CONSEQUENCE / SCALE | RISK OUTCOME | LEVEL |
| Minimise area of BSM habitat cleared during construction | Reduce clearing of BSM habitat to the extent practicable in final design Avoid clearing outside the approved footprint | Clearing or disturbance of BSM habitat outside of the approved clearing area | Known, predictable, irreversible | Possible | Moderate | Medium | Standard construction management to control construction clearing (not specific to this AMP) | Unlikely | Minor | Low | High |
| No significant indirect impacts to BSM habitat adjacent to the Proposal | Avoid indirect impacts to BSM in adjacent habitat Maintain water quality levels within specified guidelines Hydrology baseline functions and values are maintained | Impact to water quality in BSM habitat adjacent to the Proposal | Known, predictable, reversible | Possible | Moderate | Medium | Management to control sedimentation and erosion during construction Management of hydrocarbon storage during construction | Unlikely | Minor | Low | High |
| attributable to Proposal implementation | | Impact to water levels in BSM habitat adjacent to the Proposal | Known, predictable, reversible | Possible | Moderate | Medium | Standard construction management to control groundwater water abstraction consistent with WA Government water supply approvals (not specific to AMP) | Unlikely | Minor | Low | High |
| | Maintain connectivity between potential BSM habitat areas Avoid indirect impacts to BSM in adjacent habitat | Disruption of habitat connectivity | Known, predictable, reversible | Possible | Moderate | Medium | Management to maintain habitat connectivity for BSM, including installation of culverts | Unlikely | Minor | Low | High |
| | Avoid indirect impacts to BSM in adjacent habitat | Bushfire occurrence as a result of Proposal construction resulting in loss of adjacent BSM habitat | Known, unpredictable, irreversible | Possible | Moderate | Medium | Standard construction management to control potential ignition sources during construction (not specific to AMP) | Possible | Moderate | Medium | High |