



CERVANTES 1

WEED AND DIEBACK

HYGIENE MANAGEMENT PLAN

Executive Summary

Management Plan Type	Weed and Dieback Hygiene Management Plan
Proposal Name	Cervantes 1 Conventional Oil Exploration Well
Proponent Name	RCMA
Ministerial Statement Number	1178
Purpose of Management Plan	Avoid impacts to flora and vegetation from the introduction or spread of weeds or dieback in accordance with implementation conditions 3, 8 and 9 of MS 1178.
Key Environmental Outcomes	<ul style="list-style-type: none"> • No introduction of dieback disease to the Cervantes 1 Development Envelope at any time • Foliage cover of weeds in rehabilitated areas is not greater than adjacent remnant vegetation after 3 years.
Condition Clauses	Table 1
Proposed Construction Date	February 2022 (Management Plan required prior to Construction)

Revision Control

v4	24/01/2022	Hygiene Management Plan revised on EPA and DBCA request for amendments	ASW	-	KA
v3	18/07/2021	Incorporated conditions of Ministerial Statement and Development Envelope Dieback Interpretation	ASW	-	KA
v2	27/10/2020	Incorporated results of Borrow Pit Dieback Interpretation and Spring Weed Survey	ASW	-	-
v1	05/10/2020	Updated HMP with weed commitments from DBCA field visit	ASW	-	-
v0	08/09/2020	Updated HMP addressing DBCA requirements	Glevan	ASW	KA
vA	30/04/2020	Draft HMP provided to DBCA	ASW	MJ	KA
Rev	Date	Description	By	Checked	Appr.
Document Number RCMA-02-EM-PLN-003					

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Terms & Abbreviations

AER	Annual Environmental Report
AIEA	Annual Internal Environmental Audit
BKNR	Beekeepers Nature Reserve
DBCA	Department of Biodiversity, Conservation and Attractions (formerly Department of Parks and Wildlife (DPaW))
DMIRS	Department of Mines, Industry Regulation and Safety (formerly Department of Mines and Petroleum (DMP))
EP	Environment Plan
<i>EPBC Act</i>	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
ERP	Emergency Response Plan
JPF	Jingemba Production Facilities
MNES	Matter of National Environmental Significance
PEC	Priority Ecological Community
RCMA	RCMA Australia Pty Ltd
TEC	Threatened Ecological Community
VMP	Vegetation Management Plan

Related Documents

Document #	Document Name
RCMA-02-EM-PLN-001	Cervantes 1 Conventional Well Environment Plan
RCMA-02-EM-PLN-004	Cervantes 1 Vegetation Management Plan
RCMA-02-EM-PLN-006	Cervantes 1 Site Preparation Plan
RCMA-02-EM-PLN-007	Cervantes 1 Fauna Management Plan
RCMA-02-EM-PLN-008	Cervantes 1 Rehabilitation Plan
RCMA-07-TM-FM-004	Cervantes 1 Induction

1. Introduction

RCMA Australia Pty Ltd (RCMA) propose to drill the Cervantes 1 exploration well within Production Licence L14. Cervantes 1 is located within the Beekeepers Nature Reserve (BKNR) 10 km south of Dongara in Western Australia. The 'C' class nature reserve was established in 1979 for the purpose of apiculture and the conservation of flora over an area of more than 10,000 ha.

2. Hygiene Management Objective

To Prevent the introduction or spread of weeds or dieback in BKNR as a result of Cervantes 1 activities.

The Hygiene Management Plan has been developed in accordance with the DBCA Phytophthora Dieback Management Manual (October 2017). The Phytophthora Dieback Management Plan is included in Appendix A.

This Hygiene Management Plan (HMP) [RCMA-02-EM-PLN-003] has been developed in consultation with DBCA and will be implemented at all stages of the Cervantes 1 Project.

Table 1 presents a table of the Ministerial Statement condition requirements with reference to the section they are addressed in the Weed and Dieback Hygiene Management Plan (HMP).

3. Responsibility and Accountability

3.1 Responsibilities

The RCMA Operations Manager has overall responsibility for the safe and environmentally acceptable management of the operation. The Project Manager must ensure that the commitments and requirements of this HMP are implemented. All personnel, contractors and visitors must adhere to the requirements of this HMP.

3.2 Training

Training on relevant sections of this HMP will be incorporated into the Cervantes 1 Induction [RCMA-07-TM-FM-004]. Upon completion, trained personnel will be signed off and recorded in the training log along with the date and the specific induction for which training was conducted. All personnel and contractors are required to undertake the induction. Visitors accompanied by an inducted person are not required to complete the induction for the purposes of this HMP.

Commitment #	Commitment	Responsibility	Timing
1.	All personnel and contractors undertake the Cervantes 1 Induction [RCMA-07-TM-FM-004] and the records are included in the training log	Project Manager	At all stages of the Cervantes 1 Project

Table 1: Ministerial Statement Conditions

Condition	Subject	Requirement	Management Plan Location
1178:M03.1.2	Flora and Vegetation Outcomes	The proponent shall ensure the following outcomes are achieved: avoid impacts from the implementation of the proposal to flora and vegetation from changes to fire regime, dieback (Phytophthora spp) and weeds .	Outcomes will be achieved through the measures outlined in Section 6
1178:M04.1.1	Terrestrial Fauna Outcomes	The proponent shall ensure the following outcome is achieved: avoid impacts from the implementation of the proposal to terrestrial fauna from changes to fire regime, introduction of feral animals, spread of dieback and weeds , vehicle strikes, entrapment in excavation and artificial water bodies, light pollution, noise and dust.	Outcomes will be achieved through the measures outlined in Section 6
1178:M08.1	Environmental Management Plan(s): Monitoring and Adaptive Management Program	<p>Prior to ground disturbance and for approval, the proponent must prepare and submit to the CEO Environmental Management Plan(s) to substantiate that the outcomes of condition 4 will be met. The Plans must include:</p> <ol style="list-style-type: none"> (1) threshold criteria that provide a limit beyond which the environmental outcomes are not achieved; (2) trigger criteria that will provide an early warning that the environmental outcomes are not likely to be met; (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure threshold and trigger criteria. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future; (4) baseline data; (5) data collection and analysis methodologies; (6) adaptive management methodology; and (7) contingency measures which will be implemented if threshold or trigger criteria are met. 	Section 4, 5, 6, 7.2 and 8 outline the elements required in this management plan under this condition
1178:M08.2	Environmental Management Plan(s): Monitoring and Adaptive	The exceedance of a threshold criteria (regardless of whether threshold contingency measures have been or are being implemented), and / or failure to comply with the requirements of the Environmental Management Plan represents a non-compliance with these conditions.	Section 10.1, Table 4 outlines the definition of a non-compliance

Condition	Subject	Requirement	Management Plan Location
	Management Program		
1178:M08.3	Environmental Management Plan(s): Monitoring and Adaptive Management Program	The proponent must not commence operations until the CEO, on advice from DBCA, has confirmed in writing that the Environmental Management Plan(s) satisfies the requirements of this condition.	Operations will not commence until EPA approves this Management Plan
1178:M09.1.1	Environmental Management Plan(s): General Provisions	After receiving notice in writing from the CEO that the management plan(s) for conditions 4 of this Statement satisfy the requirements of condition 8 respectively, the proponent shall implement the proposal in accordance with the management plans	The proposal will be implemented in accordance with this Management Plan
1178:M09.1.2	Environmental Management Plan(s): General Provisions	After receiving notice in writing from the CEO that the management plan(s) for conditions 4 of this Statement satisfy the requirements of condition 8 respectively, the proponent shall continue to implement the approved plans and programs until the CEO has confirmed by notice in writing that it has been demonstrated that the condition requirements have been met and therefore the implementation of the actions is no longer required	The proposal will continue to be implemented in accordance with this Management Plan until the CEO confirms that all the conditions have been met
1178:M09.2	Environmental Management Plan(s): General Provisions	The proponent may review and revise the management plan(s).	Section 11
1178:M09.3	Environmental Management Plan(s): General Provisions	The proponent shall review and revise the management plan(s) as and when directed by the CEO.	Section 11

Condition	Subject	Requirement	Management Plan Location
1178:M09.4	Environmental Management Plan(s): General Provisions	The proponent shall implement the latest version of the management plan(s), which the CEO has confirmed by notice in writing, satisfies the requirements of conditions 4 and 8 respectively.	Revision Control on Page 3
1178:M09.5	Environmental Management Plan(s): General Provisions	Despite condition M9.4, but subject to conditions M9.6 and M9.7, the proponent may implement minor revisions to a management plan(s) if the revisions will not result in any new or increased adverse impacts to the environment or result in a risk to the achievement of the management plan(s) limits, outcomes or objectives.	Section 11
1178:M09.6	Environmental Management Plan(s): General Provisions	<p>If the proponent is to implement minor revisions to a management plan(s) under condition 9-5, the proponent must provide the CEO with the following at least twenty (20) business days before it implements the revisions:</p> <ul style="list-style-type: none"> (1) revised management plan(s) clearly showing the minor revisions; (2) explanation of reasons for the minor revisions; and <p>explanation of why the minor revisions will not result in a new or increased adverse impacts to the environment or result in a risk to the achievement of the management plan limits, outcomes or objectives.</p>	Section 11
1178:M09.7	Environmental Management Plan(s): General Provisions	The proponent must cease to implement any revisions which the CEO notifies the proponent in writing may not be implemented.	Section 11
1178:M09.8	Environmental Management Plan(s): General Provisions	Management Plans must be provided in electronic form suitable for publication on the EPA website within ten (10) business days of endorsement, and also be provided on the proponent's website.	Section 11

4. Background

4.1 Phytophthora Dieback

Phytophthora Dieback is a key threatening process for biodiversity of south-west Western Australia. Phytophthora Dieback (Dieback) refers to the disease caused by soil-borne plant pathogens from the genus *Phytophthora*. Forty-two *Phytophthora* species have been identified in Western Australia (FEM, 2017).

The observable disease (Phytophthora Dieback) is the result of interaction between the pathogen (*Phytophthora* species) and the vegetation hosts (susceptible plant species within the vulnerable areas). The environment conditions of the site significantly affect the pathogen's ability to survive or flourish and spread over time. All land with an annual average rainfall of more than 400 millimetres is considered vulnerable to Phytophthora Dieback. This large area stretches approximately from Perth, Bunbury and Augusta in the west to Narrogin, Ravensthorpe and Esperance in the east, and as far north as Kalbarri (known as the 400 mm isohyet).

This vulnerable area has many different bioregions, with specific characteristics. Two formative factors of these characteristics, climate and geology, are highly significant in determining the pathogenicity and resulting disease impact levels of each *Phytophthora* species.

4.1.1 The Pathogen

The microscopic plant pathogens are water moulds from the genus *Phytophthora* live in soil and infested plant material and can be spread by any mechanism in which infested soil, plant material or water is moved into uninfested areas. Although *Phytophthora* can be spread by native and feral animals, in surface and subsurface water or by root to root contact; human activities have the capacity to move it further and faster than any other means of spread. Consequently, vehicles and equipment need to remain free from infested plant material and soil (FEM, 2017).

The life cycle of *Phytophthora* species is a continuous circle of infection, sporulation and further infection and is readily vectored by animals and human activity allowing for rapid invasion into new areas. Potential vectors in relation to the Cervantes 1 project include:

- Transport vehicles
- Earthmoving vehicles and equipment
- Drilling rig and equipment
- Foot traffic

4.1.2 Host

A population of hosts is made up of susceptible, infected and immune or resistant individuals. The infection of host plants is an unseen activity happening constantly beneath the soil at an infested site.

The environmental conditions favouring or disavouring the pathogen may change at a critical point during disease development, temporarily changing the rates of infection and invasion. This can be observed symptomatically after soil temperature change through winter months.

The plant host is a highly variable component of the disease development. Sites may range from having no susceptible host to being highly susceptible to dieback disease.

4.1.3 Environment

Two fundamental environmental characteristics influencing disease development are rainfall and soil type.

Areas vulnerable to Phytophthora Dieback are defined as native vegetation which occur west of the 400 mm rainfall isohyet. The correlation of increased Phytophthora Dieback impact with increased annual rainfall is generally applicable.

Certain soil properties influence Phytophthora Dieback development within the vulnerable areas:

1. Moisture is critical for Phytophthora Dieback to survive in the soil and for sporangia production
2. Soil pH affects the growth and reproduction of the pathogen. The calcareous sands closest to the coast are alkaline and hostile to *Phytophthora cinnamomi*.
3. Fertile soils are less favourable to Phytophthora Dieback because the richness of nutrients aids strong host resistance, good soil structure allows water movement and drainage, and high organic matter provides antagonistic microflora.
4. Coarse-textured soils have larger pore spaces which favour dispersal of spores
5. The optimum temperature for *P. cinnamomi* sporulation is 21 to 30°C, peaking at 25°C, but some sporangia can still be produced at temperatures as low as 12°C. The optimum growth range is 15 to 30°C and temperatures lower than 5°C or greater than 35°C are unfavourable for the persistence of survival of spores and the vegetative mycelia of *P. cinnamomi*.

4.1.4 Cervantes 1 Location – Phytophthora Presence

A Dieback Assessment was conducted over the 36.5 ha development envelope by Evan Brown of Glevan Consulting in June 2021 (Appendix B). His findings are reproduced below.

“Aside from the lack of Phytophthora Dieback indicating species, the soil composition within the Project Area is not conducive to the disease development. The calcareous sands closest to the coast are alkaline and hostile to *Phytophthora cinnamomi* (Department of Parks and Wildlife 2015). These conditions are suitable for other Phytophthora species, particularly *Phytophthora multivora*. Based on sample data, *P. multivora* is collected regularly from sites in the southwest of Western Australia, second only to *P. cinnamomi*. The plant species susceptible to *P. multivora* are not as well documented compared to *P. cinnamomi* however the condition of the vegetation at the time of assessment did not show any vegetation or biomass decline that would be considered caused by a Phytophthora (Figure 1).

Phytophthora Dieback was not observed within the Project Area. Approximately one third of the Project Area has been classified as Excluded due to being devoid of vegetation, and the remaining vegetation has been classified as Uninterpretable as Phytophthora Dieback indicating species were not present.

For hygiene purposes, the entire Project Area can be managed as a single category.”

Phytophthora Dieback Occurrence Map (includes hygiene categories)

RCMA













Figure 1
Cervantes-01
Well and
Access Route

Project No.GC-21-1280




Scale (@A3) =12500

LEGEND

PHYTOPHTHORA DIEBACK OCCURRENCE CATEGORIES

-  Project Boundary
-  Infested
Determined by a qualified interpreter to have plant disease symptoms consistent with the presence of *P. cinnamomi*
-  Uninfested
Determined by a registered interpreter to be free of plant disease symptoms that indicate the presence of *P. cinnamomi*
-  Uninfested, Unprotectable
-  Uninterpretable
Undisturbed areas where susceptible plants are absent, or too few to make a determination of the presence or absence of *P. cinnamomi*
-  Uninterpretable, Unprotectable
-  Temporarily Uninterpretable
Areas of disturbance where natural vegetation is likely to recover.
-  Temporarily Uninterpretable, Unprotectable
-  Not Yet Resolved
Phytophthora occurrence diagnosis cannot be made at the time of assessment because of inconsistent or incomplete evidence (including sample results)
-  Not Yet Resolved, Unprotectable
-  Excluded
Areas of high disturbance where natural vegetation has been cleared and is unlikely to recover to a level that is interpretable
-  Excluded, Unprotectable

HYGIENE POINT CATEGORIES

-  Clean on Entry Point
-  Start or end of No Soil Movement section of track
-  NSM section of track

Assessment Completion	06/2021	
Interpreter(s)	EB	
Map expiry date	06/2024	
Area Statement		
Phytophthora Dieback Occurrence Category	Protectable Vegetation (Hectares)	Unprotectable Vegetation (Hectares)
Infested	0	0
Uninfested	0	0
Uninterpretable	4.31	0
Temporarily Uninterpretable	0	0
Not Yet Resolved	0	0
Assessed Area Total	4.31	
Excluded Area	2.11	0
Project Area Total	6.42	

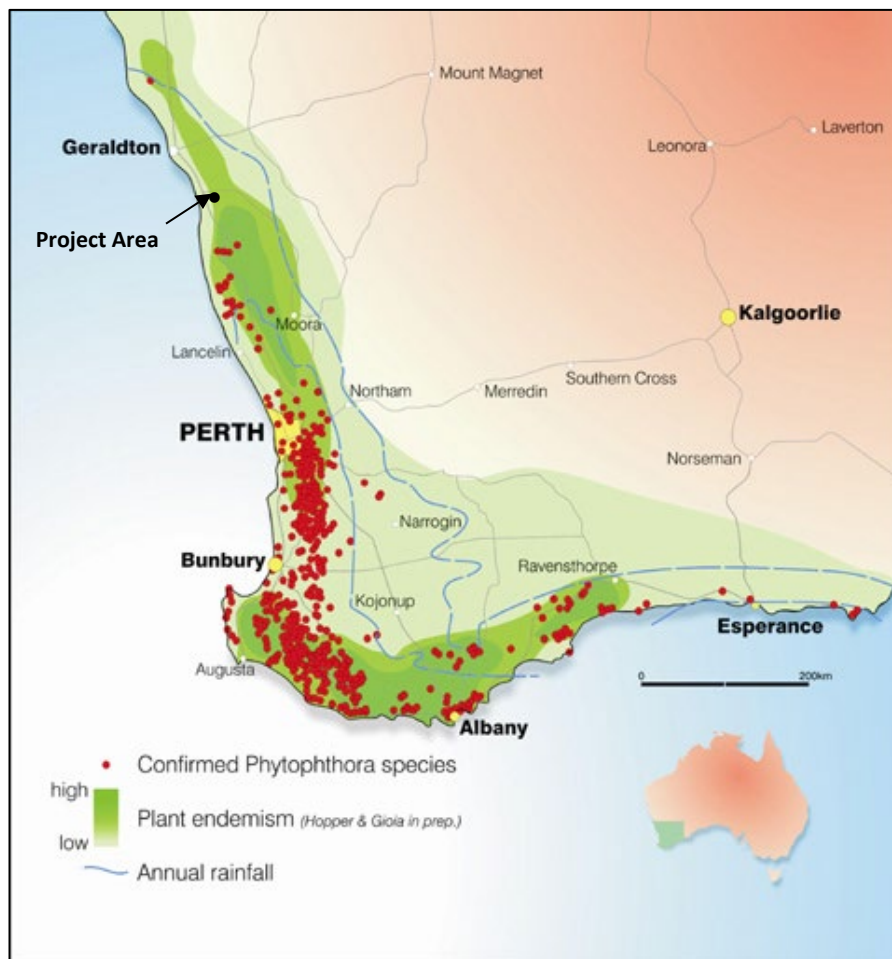
Map produced by Evan Brown, Projection UTM Zone 50, Datum GDA94

4.1.5 Cervantes 1 Location – Phytophthora Dieback Impact

The impact of the disease caused by *Phytophthora* species on vegetation is dependent on the hosts present and the environment. As stated, the Development Envelope contains suitable host species for *Phytophthora*, however the rainfall and soil structure will affect the impact.

The environmental conditions surrounding the Development Envelope, such as low rainfall, sandy calcareous soils which provide good water drainage and unsuitable pH reduces the risk of infestation by *Phytophthora cinnamomi* to very low. Figure 2 (DBCA, 2020) shows that the project area is low risk of plant endemism.

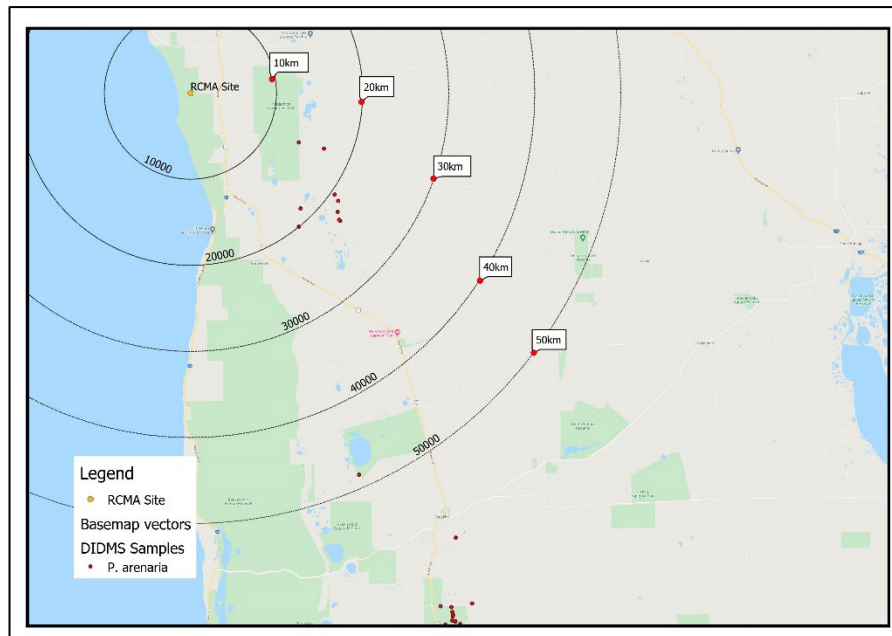
Figure 2: Spread of Dieback in WA



DBCA, 2020

While the average rainfall of the area (447 mm) is above the published 400 mm vulnerable rainfall and the Cervantes 1 location does not have suitable soil composition to support the disease caused by *P. cinnamomi*, other *Phytophthora* pathogens, principally *P. arenaria* and *P. multivora* may cause limited disease, if present. Figure 3 shows that *P. arenaria* has been recorded within 20 km from the Development Envelope. This does not infer the range of *P. arenaria*, but rather the historic sampling effort.

Figure 3: Phytophthora species near Development Envelope



Whereas *P. cinnamomi* forms a visible and indiscriminate path of destruction through entire plant communities under suitable conditions, *P. constricta* and *P. arenaria* have a more limited impact, selectively killing species belonging predominantly to the family Proteaceae. Furthermore, the incidence of *P. constricta* or *P. arenaria* (causing disease) is usually episodic following extreme rainfall events (Rea, Burgess, Hardy, Stukely & Jung, 2011). The possible presence of *P. constricta* adjacent to the Development Envelope was not confirmed by publicly available data.

The calcareous sands closest to the coast are favourable to *P. multivora* (FEM 2017).

P. multivora has been recovered from samples taken from Banksia species (*B. attenuata*, *B. grandis*, *B. menziesii* and *B. prionotes*) (Scott, Burgess, Barber, Shearer & Stukely, 2009) some of which will occur within the Development Envelope however '*P. multivora* is able to establish on drier sites but usually has less impact on vegetation than *P. cinnamomi*' (Conservation Commission of WA, 2010). Glevan Consulting has assessed thousands of hectares of the Geraldton Sand Plain over many years. During those assessments, *P. multivora* has been recovered from over twenty locations. Most sites have been observed in subsequent years and those sites not exhibiting increasing impact. It would be assumed that the impact of any *P. multivora* infestation within the Development Envelope would be similar.

Whilst the impact of putatively native Phytophthora species on susceptible vegetation within the Geraldton Sand Plains is limited, or possibly beneficial (Shaw, 2020), their impact on other IBRA have not been identified, and therefore this Management Plan will also address the hygiene of soil and plant material being removed from site.

4.1.6 Introduction of Phytophthora to site.

The likelihood of Phytophthora being vectored to site increases through the importation of soils and plant material from sources external to site. Marl is to be sourced from a local pit that was investigated on 22 September 2020, and also attended by DBCA staff (Appendix C). Two locations where the marl had been utilised in the past 18 months were also visited. Negative results were returned from samples taken from recent Banksia deaths located at one of the sites. The investigation determined that the marl presented a very low risk of introducing non-native Phytophthora species to the Cervantes site.

4.2 Weeds

Weeds are usually opportunistic plant species that are not native to an area, but once introduced, are able to compete effectively for resources. They can be intentional introductions, such as garden plants or even commercial crops.

Weeds create numerous environmental impacts including resource competition and the prevention of seedling recruitment of native plant species, alteration of geomorphological and hydrological cycles, changes to soil nutrients, fire regimes and the abundance of indigenous fauna, and genetic changes (DEC 1999).

4.2.1 Declared Weeds

In order to protect agricultural interests, the Agriculture Protection Board maintains a list of “Declared Plants” (weeds). Declared Weeds, under the *Agriculture and Related Resources Protection Act 1976*, are those that landowners are required by law to control. They are required to be controlled as they are considered a significant risk to the Western Australian economy. Many weed species, however, are not declared under this Act as they may have an agricultural role. They may, however, be serious weeds with the potential to affect native ecosystems.

4.2.2 Weeds of National Significance

The Australian and state and territory governments have agreed a list of twenty Weeds of National Significance (WONS), based on the weed species’ invasiveness, impacts, potential to spread and socio-economic and environmental values. The full list of WONS can be accessed at www.weeds.gov.au/weeds/lists/wons/html.

4.2.3 Cervantes 1 Location – Weed Presence

Cervantes Location






A total of 23 introduced taxa were identified in the Project Area during September 2020 (Appendix D). Of these two are considered to be significant weeds including *Echium plantagineum* (Declared Pest) and *Lycium ferocissimum* (WoNS) (Figure 4).

Marl Borrow Pit

Three weeds of concern have been identified in the vicinity of the borrow pit (Figure 4):

- *Verbesina encelioides* (crown beard)
- *Echium plantagineum* (Paterson’s curse)
- *Carthamus lanatus* (saffron thistle)

Figure 4: Weeds associated with Cervantes 1 Project

Significant weeds in Cervantes 1 Project Area	
<p><i>Lycium ferocissimum</i></p> 	<p><i>Echium plantagineum</i></p> 
Weeds of Concern identified at the Pearson Borrow Pit	
<p><i>Echium plantagineum</i></p> 	<p><i>Verbesina encelioides</i></p> 
<p><i>Carthamus lanatus</i></p> 	

5. Rationale and Approach

Weeds

Weed seeds or other vegetative matter (present on its own or in soil adhered to vehicle and equipment undercarriages and tyres) may be dislodged within the project area. This includes pasture and environmental weeds known in the area. Weeds introduced to a new site may establish themselves and spread into existing areas of native vegetation. The introduction of weed seeds/vegetative matter to an area does not in itself guarantee its spread; it must survive, grow and reproduce in order for it to spread beyond its initial site of introduction. The spread of weeds into areas of native vegetation previously free of them may alter the composition of native vegetation communities. Increased competition for resources such as nutrients, water and sunlight, in the absence of natural predators, may result in a reduction in native species diversity and abundance, the severity of which is dependent on the nature of the invading species and resilience of the existing native vegetation community. Weed invasion can also alter fire frequency and intensity (e.g., woody weeds and grasses can introduce a higher fuel load than may be naturally present), with subsequent changes to vegetation community structure and composition, and in turn fauna habitat.

Dieback

Phytophthora disease ('Dieback') is a pathogen of concern in southwest WA. While the rainfall band (400-600 mm) that the proposed survey project area falls within suggests it presents a low risk for the presence of dieback, there are some historic confirmed records of the pathogen near Eneabba (80 km away).

If this pathogen was introduced to this region, it could have serious impacts on the structure of the local communities and affect the availability of food sources for species dependent on foraging on susceptible species.

There are no published records or reports in the project area of dieback.

Several factors combine to ensure that the risk of spreading weeds and pathogens will be low for this project, and therefore the consequences described above have a low likelihood of occurring:

- Climatic and biophysical conditions of the proposed survey project area mean there is an inherently low risk of introduction and spread of dieback:
- There are no known mapped occurrences of *Phytophthora cinnamomi* in the proposed project area
- Low rainfall (with climate change resulting in lower rainfall, making the region even less conducive to pathogen establishment) (DoE, 2014)
- Calcareous soils (soils dominated by calcium carbonate)
- The project is avoiding surface water. Water (especially flooding) is a known vector of spread of the pathogen
- There are no groundwater dependent ecological communities in the proposed project area. Areas where groundwater remains close to the surface and areas with perched water tables and wetlands present higher risks
- The risk of mobilising and creating new infestations is low because of the control measures that will be adopted:
- All equipment and vehicles will be cleaned of organic matter prior to mobilising to site and on entering the project area
- Imported materials will be limestone marl

Rationale

Overall, the controls for this aspect are considered in line with similar projects approved in the region, and consistent with industry practices.

Introduction and spread of weeds and dieback is through equipment and vehicle movements which cannot be eliminated. However, the key risks associated with weeds and dieback can be managed to ALARP through the implementation of controls conducting vehicle movements on designated roads and access tracks, undertaking activities in accordance with hygiene control protocols. The acceptability of weed or dieback transmission is based on the proposed risk treatments (HMP, vehicles/equipment clean, materials assessment, controlled access, induction, ongoing monitoring and management).

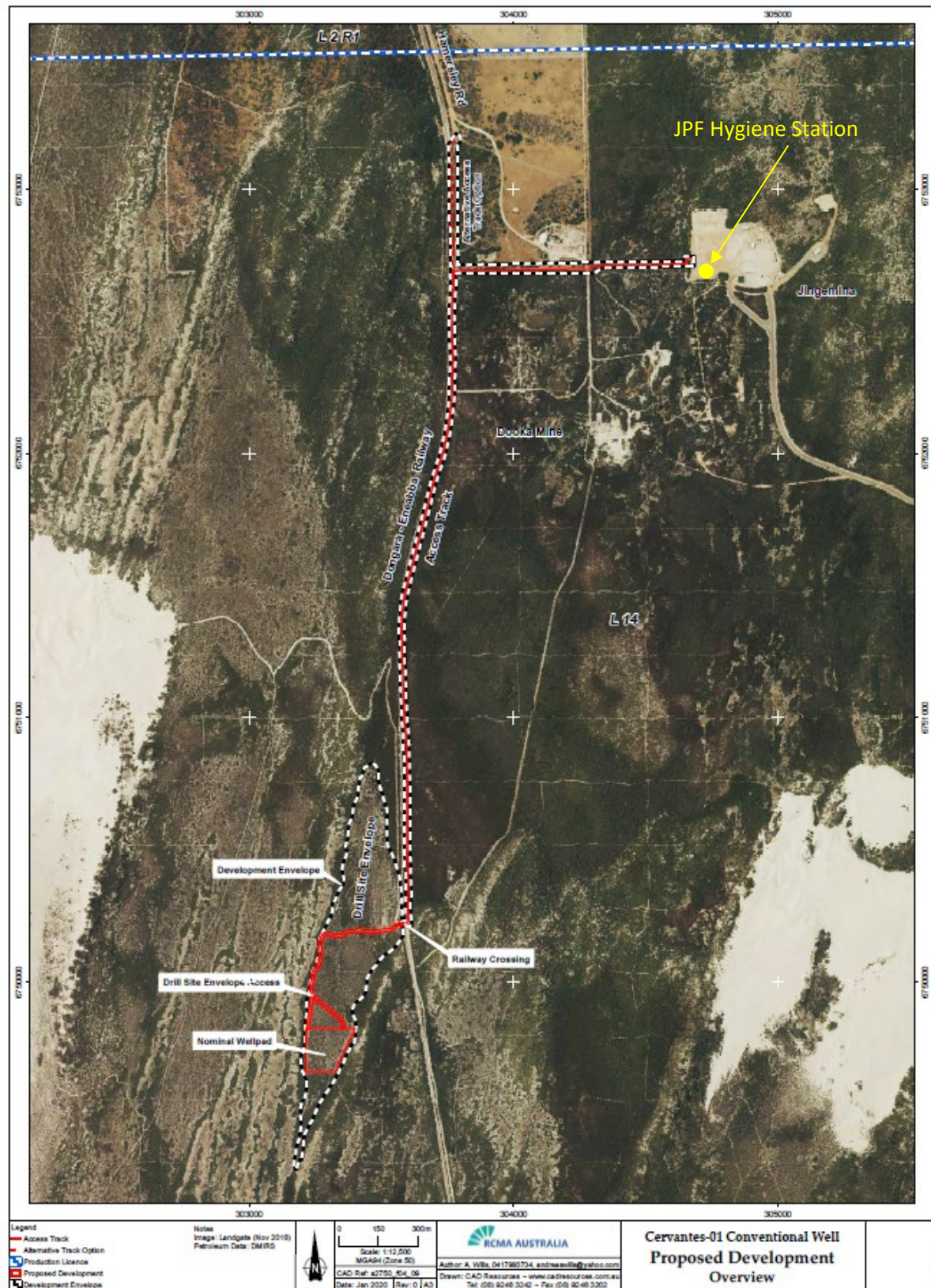
6. Avoidance and Mitigation

Commitment #	Commitment	Responsibility	Timing
2.	The area of land disturbance for the Cervantes 1 Project will be kept to the practicable minimum	Project Manager	Land Clearing
3.	Cleared areas no longer required for the project will be progressively rehabilitated	Project Manager	At all stages of the Cervantes 1 Project
Site Preparation Plan			
4.	<p>A Site Preparation Plan will be prepared to specify all details of site preparation requirements, including:</p> <ul style="list-style-type: none"> • Earthmoving equipment inspection and clean down prior to mobilisation to site • Establishment of a hygiene station during site preparation activities (including lined pad with drainage sump, brushes/brooms and weatherproof container for inspection register) • Requirement for a Hygiene Procedure [RCMA-02-EM-PRO-001] (Appendix E) and Hygiene Inspection Log [RCMA-02-EM-FM-002] (Appendix F) available at the hygiene station • Sheeting materials are from the Pearson (ex-Grice) marl borrow pit only • Requirements for borrow pit management to exclude topsoil (minimise risk of weeds) • Areas to be cleared are clearly demarcated • Vehicles and equipment to be used only within approved project footprint (specify areas) • All Crew have undertaken the induction [RCMA-07-TM-FM-004] • Weed inspections will be undertaken 1-2 weeks following rainfall 	Project Manager	Prior to Site Preparation
Awareness			
5.	Induction of personnel [RCMA-07-TM-FM-004] outlines the Project hygiene requirements. And includes images of the weeds in Figure 4	Project Manager	At all stages of the Cervantes 1 Project
Hygiene Methodology			
6.	Sheeting materials (marl to minimise dieback risk) are from Pearson (ex-Grice) marl borrow pit only	Earthmoving Supervisor	Site Preparation
7.	Borrow pit is managed to minimise the risk of weed transfer (topsoil exclusion during out loading and stockpiled with sufficient controls to ensure that it does not contaminate materials being imported into the reserve (e.g. a sufficient distance away and not down-wind from material being loaded))	Earthmoving Supervisor	Site Preparation

Commitment #	Commitment	Responsibility	Timing
8.	All earthmoving equipment must be inspected and cleaned down off site prior to mobilisation. Offsite clean down must ensure vehicle is free of all soil and plant matter as per requirements of Cervantes 1 Hygiene Procedure [RCMA-02-EM-PRO-001] Section 6 (Appendix E)	Earthmoving Supervisor	Prior to Mobilisation to Site
9.	A hygiene station is established at Jingemia Production Facility (JPF) (Figure 5) during site preparation activities (including lined pad with drainage sump, brushes/brooms and weatherproof container for hygiene inspection log) *Images of example hygiene station presented in Appendix G	Earthmoving Supervisor	Site Preparation
10.	Vehicles and equipment are to arrive on site in a clean state and all vehicles conduct inspection on site at JPF hygiene station in accordance with the Hygiene Procedure (Appendix E) including driver sign off on the hygiene inspection log (Appendix F) * *unless issued with a permit from the RCMA Operations Manager All soil moving machinery will be cleaned on leaving site to ensure plant pathogens are not exported from the site.	Earthmoving Supervisor	At all stages of the Cervantes 1 Project
11.	A permit may be granted for vehicles travelling on well maintained, hygienic, sealed roads to the Cervantes 1 site frequently to reduce the number of inspections required if the conditions on the permit are met	RCMA Operations Manager	At all stages of the Cervantes 1 Project
12.	Only drive on existing tracks, access roads, firebreaks, and service corridors to prevent impact on native vegetation outside the project footprint	All personnel	At all stages of the Cervantes 1 Project
13.	Personnel are required to complete the induction which outlines weed and dieback hygiene requirements including reiteration of the importance of staying within the project footprint	Earthmoving Supervisor	Prior to Mobilisation to Site
Monitoring and Maintenance			
14.	Following importation and spread of sheeting material at BKNR, a weed inspection will be carried out 1-2 weeks following rainfall	RCMA Operations Manager	Immediately following rainfall
15.	Any identified weeds will be removed by hand pulling immediately on detection and DBCA notified as soon as possible	RCMA Operations Manager	At all stages of the Cervantes 1 Project
16.	All removed weeds will be disposed of appropriately off-site	RCMA Operations Manager	At all stages of the Cervantes 1 Project
17.	Following detection, ongoing monitoring for new germination will continue 1-2 weeks after rainfall events in consultation with DBCA	RCMA Operations Manager	At all stages of the Cervantes 1 Project

Commitment #	Commitment	Responsibility	Timing
Rehabilitation			
18.	A rehabilitation plan is to be submitted to DMIRS and will outline measures during rehabilitation and over following periods to manage and control the spread of weed species and remediation actions to be implemented if required	Project Manager	Within two years of well P&A
19.	Should any weed infestation remain present on cessation of the Cervantes 1 drilling activity, on-going control and monitoring will continue until the infestation is considered controlled in consultation with DBCA	RCMA Operations Manager	Until Cervantes 1 completion criteria have been met

Figure 5: Hygiene Station Location



7. Monitoring

7.1 Inspections

Inspections are conducted 1-2 weeks after rainfall events during care and maintenance and rehabilitation phases of the project.

7.2 Annual Monitoring

Weed and dieback monitoring is conducted on an annual basis commencing one year following the cessation of the Cervantes 1 drilling activity. The requirements of the monitoring are presented in Table 2.

Table 2: Weed, Dieback and Rehabilitation Monitoring

Aspect	Objective	Scope
<i>Photographs at Monitoring Points</i>		
Weed	Ensure weeds are managed to prevent the spread of weeds	<ul style="list-style-type: none"> • Observe weed cover • Recommend weed management
Dieback	Ensure if dieback is introduced it is identified	<ul style="list-style-type: none"> • Observe suspicious vegetation deaths • Make recommendations on requirement for dieback survey

8. Thresholds and Triggers

Table 3 presents the threshold criteria that provide a limit beyond which the weed and dieback outcomes are deemed not to have been achieved. It provides the trigger criteria that will provide an early warning that the weed and dieback outcomes are not likely to be met, how the criteria will be monitored and contingency measures that will be implemented if threshold or trigger criteria are met.

Table 3: Cervantes Hygiene Management Plan Thresholds and Triggers

#	Threshold Criteria	Trigger Criteria	Monitoring	Contingency Measures
1.	No introduction of dieback	Hygiene Procedure violation	<ul style="list-style-type: none"> Daily inspection of construction hygiene station including hygiene register Audit of hygiene records against vehicle movements Annual rehabilitation dieback site assessment 	<ul style="list-style-type: none"> Hygiene procedure review Dieback interpreter engaged Consultation with DBCA Reporting as per Section 11.3 of the Cervantes 1 EP
2.	The foliage cover of weeds in rehabilitation areas should not be greater than adjacent undisturbed remnant vegetation ^(Note 1)	Weed control program is not managing weeds in rehabilitation areas to foliage cover less than 80% of adjacent undisturbed remnant vegetation ^(Note 1)	<ul style="list-style-type: none"> Daily inspection of construction hygiene station including hygiene register Monthly weed inspections Annual monitoring of weed cover 	<ul style="list-style-type: none"> Review of weed control program and implement revised program Review of hygiene procedures Consultation with DBCA Reporting as per Section 11.3 of the Cervantes 1 EP

Note 1-Tracks are affected by the weed load on the opposite side of the track. The “edge effect” in comparison with adjacent track edge will be considered for the application of this completion criteria on tracks

9. Stakeholder Consultation

RCMA has consulted with key stakeholders in relation to its Cervantes 1 exploration activities. These stakeholders have included:

- DMIRS
- Environmental Protection Authority (EPA)
- DBCA
- Shire of Irwin
- ARC Infrastructure
- Public Transport Authority
- Yamatji Marlpa Aboriginal Corporation (YMAC)
- Yamatji Southern Regional Corporation (YSRC)
- Neighbouring hydrocarbon facility and permit owners
- Landowners

Appendix H summarises the key consultation events, topics raised and responses.

RCMA will continue to engage with stakeholders for the life of the Cervantes 1 Project.

10. Reporting

10.1 Non-Compliance Reporting

Environmental incidents shall be reported and investigated as soon as practicable following identification, enabling effective actions to be implemented without delay. Environmental incidents are defined as events that cause or could potentially cause harm to the environment. Hygiene incidents and reporting protocols are included in Table 4. Further information is contained in the Cervantes 1 Conventional Well Environment Plan [RCMA-02-EM-PLN-001].

10.2 Annual Environmental Report

An AER is submitted to DMIRS annually under Regulation 16 of the *Petroleum and Geothermal Energy Resources (Environment) Regulations 2012*. The AER requires details of:

- Activities that have been undertaken
- Clearing or rehabilitation that has been undertaken
- Compliance for each objective and standard in the EP (includes compliance with HMP)
- Audits undertaken
- Incidents that have occurred
- Monitoring results

10.3 Compliance Assessment Report

A compliance assessment report will be submitted to EPA as per the requirements of the Compliance Assessment Plan [RCMA-02-EM-PLN-011] under the conditions of the Ministerial

Statement. The report will contain evidence to substantiate statements of compliance against the requirements of this Hygiene Management Plan.

11. Adaptive Management and Management Plan Review

The need for adaptive management may be recognised in the following ways:

- Personnel undertaking routine tasks
- Routine Site Inspections (Section 7.1)
- Annual Monitoring (Section 7.2)
- Near miss incidents
- Incidents
- Reaching a trigger (Section 8)
- Breaching a threshold (Section 8)

This HMP is to be reviewed by RCMA:

- When the need for adaptive management not covered in this FMP is recognised
- Every second year from the commencement of operations until the achievement of rehabilitation completion criteria, to ensure it remains current
- As and when directed by the EPA

RCMA shall implement the latest version of this plan, which the EPA CEO has confirmed by notice in writing, satisfies the requirements of Ministerial Statement 1178. Minor revisions must be treated in accordance with conditions 9-5 and 9-6 of Ministerial Statement 1178.

Management Plans must be provided in electronic form suitable for publication on the EPA website within ten (10) business days of endorsement, and also be provided on the proponent's website.

The proponent must cease to implement any revisions which the CEO notifies the proponent in writing may not be implemented.

Table 4: Environmental Incident Reporting

Report	Type of Incident	Frequency	Contact
RCMA Reporting	<ul style="list-style-type: none"> All incidents 	Upon discovery	Project Supervisor
DMIRS Reportable Incident	<ul style="list-style-type: none"> Introduction of a Weed of National Significance Confirmed introduction of <i>phytophthora cinnamomi</i> 	Within two hours of incident followed by a detailed written report within 3 days	In writing to petroleum.environment@dmirs.wa.gov.au or verbally on (08) 9222 3727
EPA Services Non-compliance Report	<ul style="list-style-type: none"> A limit, outcome or threshold criteria contained the Ministerial Conditions or this HMP has or is likely to be exceeded 	Within 7 days of RCMA becoming aware of followed by a further report within 21 days	Attn: EPA CEO compliance@dwer.wa.gov.au
DMIRS Recordable Incident Report	<ul style="list-style-type: none"> Noncompliance with the Hygiene Management Plan Failure to induct all personnel 	Monthly (within 15 days of the end of the reporting period)	petroleum.environment@dmirs.wa.gov.au in the recordable incident report template
DBCA Notification	<ul style="list-style-type: none"> Identification of weed infestation Confirmed introduction of <i>phytophthora cinnamomic</i> Noncompliance with the Hygiene Management Plan 	ASAP	Regional Manager 08 9964 0901 GeraldtonEnquires@dbca.wa.gov.au Manager EMB 08 9219 9500 EMBAdmin@dbca.wa.gov.au

12. References

Conservation Commission of Western Australia 2010 Performance Assessment of Phytophthora Dieback Management on Lands Vested in the Conservation Commission of Western Australia, Report.

Department of Biodiversity, Conservation and Attractions *Phytophthora dieback* searched 06/04/2020: <https://www.dpaw.wa.gov.au/management/pests-diseases/phytophthora-dieback>.

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Forest and Ecosystem Management (FEM) 2017 *Phytophthora Dieback Management Manual* Department of Biodiversity, Conservation and Attractions.

Rea, A, Burgess, T, Hardy, G, Stukely, M and Jung, T 2011 Two novel and potentially endemic species of Phytophthora associated with episodic dieback of Kwongan vegetation in the south-west of Western Australia, 60 Plant Pathology 1055-1068.

Scott, P, Burgess, T, Barber, P, Shearer, B and Stukely, M 2009 Phytophthora multivora sp. Nov. a new species recovered from declining Eucalyptus, Banksia, Agonis and other plant species in Western Australia, 22 Persoonia 1-13.

Shaw, C. 2020 *Damping off within Natural and Disturbed Kwongan Plant Communities* Thesis submitted for the degree of Doctor of Philosophy (unpublished).

Woodman Environmental 2020a *Cervantes 1 Conventional Well Level 1 Fauna Survey, Reconnaissance and Targeted Flora and Vegetation Survey* (conducted February 2020) Unpublished report prepared for RCMA Australia Pty Ltd, October 2020.

Woodman Environmental 2020b *Cervantes Conventional Well Flora, Vegetation and Fauna Desktop Assessment* Unpublished report prepared for RCMA Australia Pty Ltd, February 2020.

Woodman Environmental 2020c *Cervantes Conventional Well Spring Targeted Flora Survey* (conducted September 2020) Unpublished report prepared for RCMA Australia Pty Ltd, October 2020.

Woodman Environmental 2005 *Denison 3D Seismic Survey Flora and Vegetation Study* Unpublished report prepared for Arc Energy Ltd, April 2005.

Appendix A Phytophthora Dieback Management Plan

Phytophthora Dieback Management Plan

PART A: COVER PAGE

This form is to be used for assessing the dieback risks associated with planned disturbance activities on lands managed by the Department of Biodiversity, Conservation and Attractions, for documenting the risk reduction tactics and monitoring implementation of the plan.

The form has three parts, and at least two parts will need to be completed for each disturbance activity. Please indicate in the table below which parts have been completed for this disturbance activity.

Part	Purpose	Requirement	Tick those completed
Part A	Cover Page (instructions, details about the activity)	Must be completed (if activity requires more than basic dieback management as per section 1.4 of manual)	✓
Part B	Risk Assessment	To be conducted for all planned disturbance activities in the vulnerable zone on lands managed by the department, except: Where risk is already known to be 'High' a proponent may choose to go directly to Part C.	✓
Part C	Management Actions	Where the risk has been assessed as 'High' or 'Moderate' a management map is to be included. Part C is not required where the risk has been assessed to be 'Low'. In this case, the proponent can proceed using basic dieback management.	✓

Dieback Management Plan No. _____
District allocated - to be recorded on all parts of plan submitted

Details of the disturbance activity

Region/District of activity:	Geraldton Sandplains	Date of activity: (give date range if a prolonged activity)	Q1 2021
Location of site of activity: (Forest Block, Reserve or coordinates)	Beekeepers Nature Reserve		
Vegetation type/complex:	Heath (H8) Low Woodland (W1) (PEC) Dense Malaleuca Thicket (T2 & T3)		
Description of the activity: (timber harvesting, road upgrade etc.)	Vegetation Clearing, Track Upgrades Movement of Equipment, Vehicles & Personnel Drilling		
Proponent of the activity: (BDCA, FPC, MRWA, Water Corp. etc.)	RCMA Australia		
Departmental objective for dieback management:	To minimise the potential for the introduction or spread of dieback associated with planned disturbance activities.		

PART B: RISK ASSESSMENT

Dieback Management Plan No.

District allocated - to be recorded on all parts of plan submitted

Step 1: Forecast the MOISTURE conditions during the activity

Higher moisture during the activity will increase the likelihood that soil will stick to vehicles, equipment and/or footwear. Tick the box adjacent to the moisture conditions that are forecast for the period of the activity. If the activity will continue for an extended period, planning should consider the highest possible risk (wettest) conditions that may occur. If during a disturbance activity soil moisture becomes higher than anticipated, the DMP should be reviewed to confirm that all management actions remain appropriate (assuming the risk rating of the activity increased with the additional moisture).

Dry soil	where dust forms when exposed soil is disturbed	
Moist soil	where soil is damp but does not stick to tyres, equipment and/or footwear	
Wet soil	where soil and moisture combine so that soil sticks to tyres, equipment and/or footwear	

Step 2: Determine the LIKELIHOOD of introducing or spreading dieback

Circle the description in each column that best describes the activity. An activity may fit between descriptions, in which case write a description into the appropriate blank cell.

The overall likelihood rating is determined by the factor with the highest rating.

Disturbance type (e.g. action)	Introduction of raw material	Access	Complexity of activity	Extent of activity	Duration of activity	Drainage	Unmanaged access	Likelihood rating
Heavy earth moving, tracked vehicles	Infested or unknown raw material	Access crosses water (irrespective of frequency)			Activity area disturbed & map expired so impossible to revalidate boundaries		Increased public access in area of high public use	Almost certain
Soil disturbance over a distance		Activity requires frequent access to site	Highly complex	Vehicle traverses several mini-catchments	Activity extends over several wet seasons	Surface water increased		Likely
Soil disturbance at single points	Crushed rock with no organic fraction		Complex		Activity occurs during a single wet season		Increased public access, but access restricted and/or site remote	Possible
Rubber tyred vehicle, bicycle	'High confidence' uninfested raw material	Activity requires infrequent access to site		Single mini-catchment	Entry in short timeframe under dry conditions	Minimal increase in surface water		Unlikely
Human, animal traffic			Not complex	Point or human traffic	Single entry in short timeframe under dry conditions		Activity does not alter frequency of access to site	Very unlikely

Step 3: Determine the CONSEQUENCE of introducing or spreading dieback

Determine the potential CONSEQUENCE that introducing or spreading dieback may cause by going through the table below systematically and circling the description in each column that best estimates the consequence.

The overall consequence rating is determined by the factor with the highest rating.

Area put at risk	Predicted impact	Biodiversity and sensitive areas at risk	Consequence rating
Potential to infest all protectable areas in activity landscape unit*	Predicted high or very high impact: (majority of species at the activity area are susceptible and/or introducing dieback will result in extinction of species or populations) or Wet areas which contain any <i>Banksia</i> species or jarrah	>1 threatened/priority plant or animal species, critical habitat, TEC and/or Ramsar wetlands that is susceptible to dieback and/or <ul style="list-style-type: none"> Old-growth jarrah forest Project Dieback PPA (uninfested high value hotspot) 	Severe
Potential to infest more than 5% of any protectable area or 4 ha's (whichever is greater – assessor may set a lower minimum protectable area where appropriate)	Predicted high impact: (many susceptible species and/or introducing the pathogen will result in loss of populations or localised extinction of species) or Where predicted impact cannot be determined, jarrah forest on upland areas	At least one threatened/priority plant or animal species, critical habitat, TEC and/or Ramsar wetlands that is susceptible to dieback and/or <ul style="list-style-type: none"> Project Dieback PPA (uninfested high value landscapes) Sensitive neighbouring property 	Significant
	Predicted moderate impact: (moderate numbers of susceptible species and/or introducing the pathogen will result in a reduction in species/populations)		Intermediate
	Predicted low impact (low numbers of susceptible species)	Fauna Habitat Zones	Minor
No protectable areas estimated within any related landscape unit	No susceptible species and/or the activity area is in the 'excluded' category. Introducing dieback will have no impact discernible outside natural variation	No threatened/priority plant or animal species; critical habitat; TEC; Ramsar wetlands that are susceptible to dieback and/or; PPAs	Insignificant

*Landscape unit is an area bounded by features such as creeks, ridges, saddles, open roads and/or freehold land

Step 4: Determine the overall dieback RISK rating

- Refer to the table below that corresponds to the soil MOISTURE conditions (Step 1)
- Circle where the LIKELIHOOD rating (Step 2) intersects the CONSEQUENCE rating (Step 3)

This is the overall dieback RISK rating for the activity.

DRY SOIL					
	CONSEQUENCE				
LIKELIHOOD	Insignificant	Minor	Intermediate	Significant	Severe
Almost certain	Low	Moderate	High	High	High
Likely	Low	Moderate	Moderate	High	High
Possible	Low	Low	Moderate	Moderate	High
Unlikely	Low	Low	Low	Moderate	High
Very unlikely	Low	Low	Low	Moderate	High

MOIST SOIL						
		CONSEQUENCE				
LIKELIHOOD	Insignificant	Minor	Intermediate	Significant	Severe	
Almost certain	Low	High	High	High	High	
Likely	Low	Moderate	High	High	High	
Possible	Low	Moderate	Moderate	High	High	
Unlikely	Low	Low	Moderate	Moderate	High	
Very unlikely	Low	Low	Low	Moderate	High	

WET SOIL					
	CONSEQUENCE				
LIKELIHOOD	Insignificant	Minor	Intermediate	Significant	Severe
Almost certain	Low	High	High	High	High
Likely	Low	High	High	High	High
Possible	Low	Moderate	High	High	High
Unlikely	Low	Moderate	Moderate	High	High
Very unlikely	Low	Low	Moderate	Moderate	High

Step 5: Can the risk be reduced by altering the activity or conditions?

If the risk rating is 'high' it is recommended that the activity be re-assessed to determine if the risk can be reduced by altering some of the parameters of the activity. Is the activity absolutely necessary? Changing season or moisture conditions under which the activity will be done could have a significant impact on the risk, as could changing the site of the activity, or the equipment used.

Step 6: Determine requirements based on RISK rating

Tick the box adjacent to the RISK rating of the activity as determined by the risk table.

High	<ul style="list-style-type: none"> Complete Part C based on valid and comprehensive dieback interpretation with Regional Manager (or delegate) approval before implementation, and sign-off after close-out Green Card training¹ for all proponents and contractors involved in activity 	
Moderate	<ul style="list-style-type: none"> Complete Part C based on valid and comprehensive dieback interpretation OR conditional dieback occurrence information with Regional Manager (or delegate) approval before implementation, and sign-off after close-out Green Card training¹ for proponent and contractors involved in activity 	✓
Low	<ul style="list-style-type: none"> Part C not required. Activity can proceed using basic dieback management Green Card training¹ for all proponents and contractors involved in activity 	

¹ Green Card training is mandatory for nominated departmental staff

Step 7: Risk Assessment sign-off

	Full Name	Position	Signature	Date
Risk Assessment conducted by:	Andrea Wills	HSE Advisor	A Wills	21/7/20

Additional comments or conditions:

PART C: MANAGEMENT ACTIONS

Dieback Management Plan No. <i>District allocated - to be recorded on all parts of plan submitted</i>	RCMA-02-EM-PLN-003
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Step 1: Dieback occurrence information & map *(supervising officer/proponent)*

Valid and comprehensive interpretation		Conditional information	
Report no. &/or name	To be undertaken September 2020	Source	
Map type(s) &/or code		Management map attached with all approved management points clearly marked?	

Step 2: DMP meeting *(supervising officer/proponent)*

Date:	16/01/2020	Convened by:	Andrea Wills
Attended by:	Ken Aitken Joseph Flamenco Darrell Girgenti Gary Robertson		

Step 3: Risk management tactics *(supervising officer/proponent)*

Tactic no.	TACTICS TO BE DEPLOYED	To be implemented <i>(✓ = required, X = not required)</i>	Implemented <i>(initialled when complete)</i>	Checked <i>(initialled when checked)</i>
MOISTURE CONDITIONS				
1	Moisture conditions (tick permitted) dry <input checked="" type="checkbox"/> moist <input checked="" type="checkbox"/> wet <input checked="" type="checkbox"/>	✓		
2	Operations to cease in the event of rain	X		
PROTECTABLE AREAS				
3	Protectable area boundaries which are clearly marked in field and on map <u>or</u>			
4	Disease categories within protectable areas which are clearly marked in field and on map			
HYGIENE				
5	Management points installed and functional by following date prior to site prep	✓		
6	<input checked="" type="checkbox"/> Clean on Entry (COE) points established and numbered on the map	✓		
7	<input type="checkbox"/> COE gates installed and indicated on map against COE no.	n/a		
8	<input checked="" type="checkbox"/> turnarounds for COE points, numbered and marked on map	✓		
9	COE points closed and rehabilitated within 2 weeks of completion remediated	✓		
10	Cleandown points established and indicated on map	✓		
11	Machines and vehicles with portable hygiene kits	n/a		

Tactic no.	TACTICS TO BE DEPLOYED	To be implemented (✓ = required, X = not required)	Implemented (initialled when complete)	Checked (initialled when checked)
12	Records kept (circle relevant): COE <u>cleandown</u> <u>COE inspections</u>	✓		
COMMUNICATION				
13	Staff/contractors with Green Card training <u>induction</u>	✓		
14	DMP briefings (circle relevant): <u>at commencement</u> <u>weekly</u> <u>daily</u> <u>other</u> <u>induction</u>	✓		
15	Staff and contractors in field have copy of the dieback management map	n/a		
16	Total no of signs <u>2</u> abbreviate the type <u>COE</u> <u>cleandown</u> <input type="checkbox"/> <input type="checkbox"/>	✓		
DISTURBANCE				
17	Machinery type: <u>inspected & cleaned prior to mobilisation</u>			
18	'No soil movement' roads and areas identified on map	n/a		
19	Records kept for access on 'No soil movement' roads	n/a		
RAW MATERIALS				
20	Type: <u>Marl</u> Supplier/Source: <u>Pearson Borrow Pit</u>	✓		
21	Status (include evidence): <u>Interpretted prior to use</u>	✓		
ACCESS				
22	Access route planned to place least amount of protectable area downslope at risk, and shown on map	✓		
23	Road maintenance	use interpreted boundaries	n/a	
24	uses tactics to	push soil downslope only	✓	
25	mitigate harm to	clean bucket, shovel, auger after digging culverts/holes	✓	
26	protectable areas:	use uninfested/low risk material to patch road	✓	
27	<input type="checkbox"/> roads to be closed, each road closure is numbered and marked on map	n/a		
28	Each road closure has been constructed to effectively control access	n/a		
29	Roads closed/rehabilitated within <input type="checkbox"/> weeks of end of activity	n/a		
30		located in infested/unprotectable categories when possible	n/a	
31	Road construction	low in profile	✓	
32	uses tactics to	high crown for better drainage	✓	
33	mitigate harm to	deep roadside drains & coarse material to minimise erosion	✓	
34	protectable areas:	Mitre/offshoot drain preferentially located toward the base of the slope	n/a	
35	'Green-bridge' implemented	n/a		
36	Activity to be undertaken using split-phase	n/a		

8



Step 4: DMP approval *(Regional Manager (or delegate))*

I, the undersigned, have reviewed the Risk Assessment and approved the DMP:

Kenneth John Aitken	CEO	<i>Kenneth J. Aitken</i>	22/0720
Full Name	Position	Signature	Date

Step 5: DMP close-out *(supervising officer/proponent)*

All tactics identified in the DMP were implemented as approved?

Yes

☐

No

☐

Comment:

Full Name	Position	Signature	Date

Step 6: DMP sign-off *(Regional Manager (or delegate))*

I, the undersigned, am satisfied that the DMP has been implemented and closed-out as approved:

Full Name	Position	Signature	Date

Step 7: Document management checklist

Records ticked below are filed in the following location:

<input type="checkbox"/>	Dieback occurrence information (Interpretation report and map)
<input type="checkbox"/>	have been forwarded to FMB at femweb@dbca.wa.gov.au
<input type="checkbox"/>	Dieback Management Map
<input type="checkbox"/>	Dieback Management Plan Form
<input type="checkbox"/>	Cover Page
<input type="checkbox"/>	Part A
<input type="checkbox"/>	Part B
<input type="checkbox"/>	COE and cleanup records

Appendix B Cervantes 1 Dieback Survey

RCMA Australia Pty Ltd

RCMA Cervantes Well and Access Route

Phytophthora Dieback occurrence assessment – Version 0.20



<i>Client</i>	<i>RCMA Australia Pty Ltd</i>
<i>Report name</i>	<i>RCMA Cervantes Well and Access Route</i>

This report has been prepared following the scope of work agreed upon between RCMA Australia Pty Ltd and Glevan Consulting and contains results and recommendations specific to the agreement. Therefore, results and recommendations in this report should not be referenced for other projects without the written consent of Glevan Consulting.

Executive Summary

RCMA is proposing to drill one conventional oil exploration well to determine if there is oil in the prospect, located 11 kilometres (km) south of Dongara / Port Denison in the onshore Perth Basin, within the Beekeepers Nature Reserve (Figure 1).

The proposal will have a disturbance footprint of (approximately) 7 hectares (ha) which will require the clearing of 5.3 ha of native vegetation for the well pad and road widening, within a development envelope of 36.5 ha (Environmental Protection Agency, 2021).

RCMA commissioned Glevan Consulting to conduct an assessment for the presence of Phytophthora Dieback within and immediately adjacent to the proposed disturbance footprint (Project Area). Evan Brown completed this assessment in June 2021. The Department of Biodiversity Conservation and Attractions (DBCA) recognises Mr Brown as a registered Dieback Interpreter (DPW-PDI-004) able to provide this service on DBCA estate. Procedures and guidelines stipulated in the DBCA manual “Phytophthora Dieback Interpreters Manual for lands managed by the Department” (Interpreters Manual) are applied as the base methodology used by Glevan Consulting in delivering the services and products required by this scope of work. These guidelines and overarching peer review and quality standards ensure that all results are presented to the highest standard. A linear assessment of the access track was conducted, and a comprehensive assessment of the proposed well site.

Phytophthora Dieback was not observed within the Project Area. Approximately one third of the Project Area has been classified as Excluded due to being devoid of vegetation, and the remaining vegetation has been classified as Uninterpretable as Phytophthora Dieback indicating species were not present. For hygiene purposes, the entire Project Area can be managed as a single category.

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1 Introduction

RCMA is proposing to drill one conventional oil exploration well to determine if there is oil in the prospect, located 11 kilometres (km) south of Dongara / Port Denison in the onshore Perth Basin, within the Beekeepers Nature Reserve (Figure 1). The scheduled activities will include:

- Site preparation,
- equipment mobilisation,
- drill,
- case and cement,
- decommissioning,
- demobilisation,
- site restoration and rehabilitation.

The anticipated life of the activities is three to six months.

The proposal will have a disturbance footprint of 7 hectares (ha) which will require the clearing of 5.3 ha of native vegetation for the well pad and road widening, within a development envelope of 36.5 ha (Environmental Protection Agency, 2021).

RCMA commissioned Glevan Consulting to conduct an assessment for the presence of *Phytophthora Dieback* within and immediately adjacent to the proposed disturbance footprint (Project Area). Evan Brown completed this assessment in June 2021. The Department of Biodiversity Conservation and Attractions (DBCA) recognises Mr Brown as a registered Dieback Interpreter (DPW-PDI-004) able to provide this service on DBCA estate.

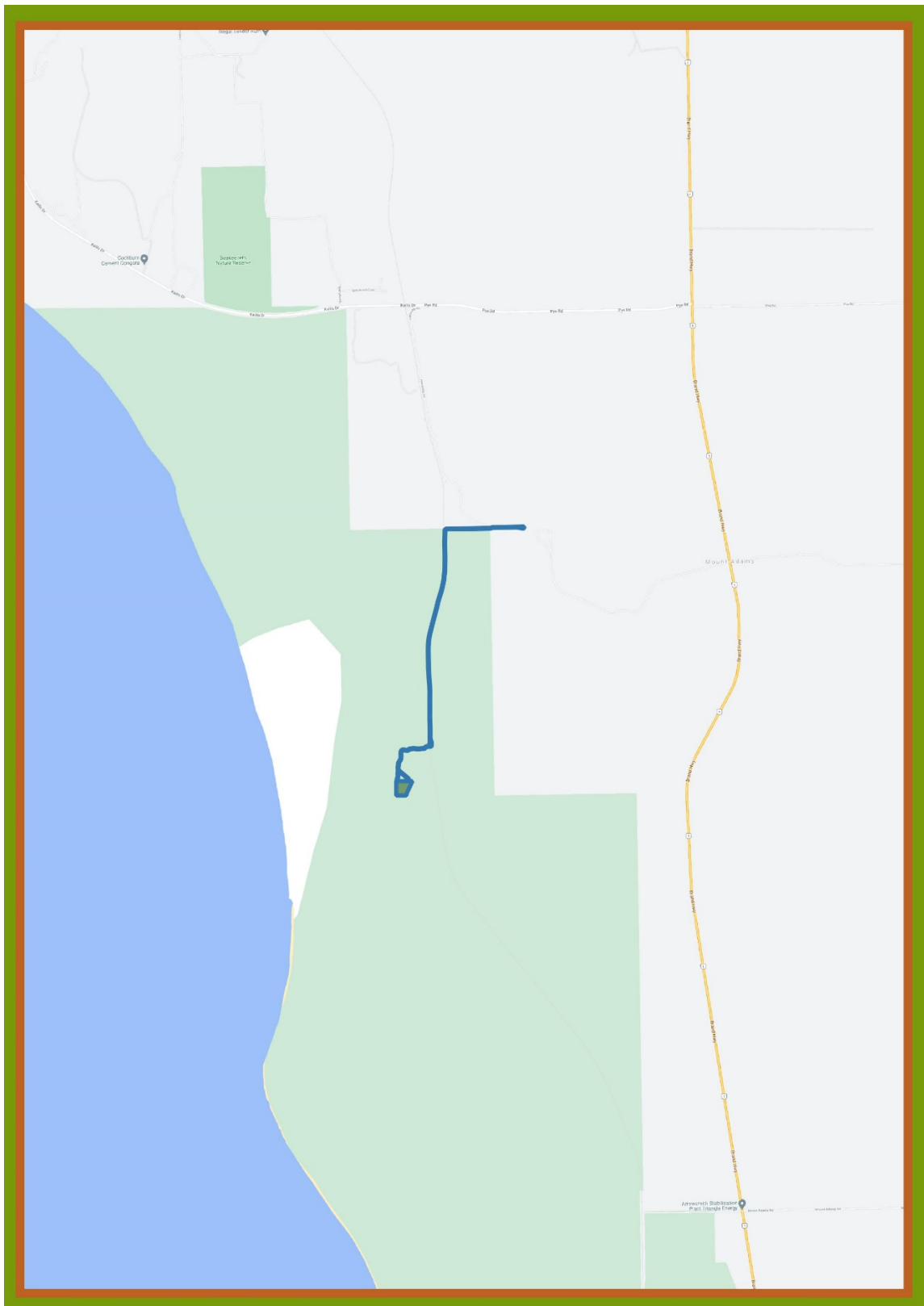


Figure 1 - Assessment area location

2 Background

Thousands of Australian native plant species are susceptible to Phytophthora dieback—a destructive disease caused by the pathogen *Phytophthora cinnamomi* and other *Phytophthora* species. This disease is a major threat to Australia’s biodiversity, placing important plant species at risk of death, local extirpation or even extinction. Its dramatic impact on plant communities can also result in major declines in some insect, bird and animal species due to the loss of shelter, nesting sites and food sources. *Phytophthora* dieback can cause permanent damage to ecosystems. Once an area is infested with the pathogen, eradication is usually impossible. Awareness that human activity can easily spread the pathogen . . . will help prevent an increase in the extent of this disease. (Commonwealth of Australia, 2018)

Phytophthora is a microscopic water mould that belongs to the class Oomycetes. Oomycetes organisms are filamentous and absorptive and reproduce both sexually and asexually. *Phytophthora*’s are considered parasitic. It behaves largely as a necrotrophic pathogen causing damage to the host plant’s root tissues because of infection and invasion. (Department of Parks and Wildlife, 2015) The pathogen infects a host when it enters at a cellular level and damages the cell structure.

Phytophthora Dieback is the result of interaction between three physical components forming a ‘disease triangle’: the pathogen (*Phytophthora species*), the environment and the host. All three components are needed for the disease to develop over time.

The relationship between the presence of *Phytophthora* and the development of *Phytophthora* Dieback disease is variable based on the susceptibility of native plant species and the different environmental characteristics, landform types and rainfall zones across bioregions.

3 Materials and methods

Procedures and guidelines stipulated in the DBCA manual “Phytophthora Dieback Interpreters Manual for lands managed by the Department” (Interpreters Manual) are applied as the base methodology used by Glevan Consulting in delivering the services and products required by this scope of work. These guidelines and overarching peer review and quality standards ensure that all results are presented to the highest standard.

Glevan Consulting has assessed areas based on existing evidence presented at the time of assessment. The Phytophthora pathogen may live in the soil as an incipient disease. Methods have been devised and utilised that compensate for this phenomenon; however, very new centres of infestation that do not present any visible evidence may remain undetected during the assessment

3.1 The assessment area

Areas within the Project Area were excluded from assessment as the vegetation is suffering from significant disturbance, affecting the presence or condition of the remaining vegetation. This vegetation condition (Table 1) is based on the following scale (Keighery, 1994). The remaining area was categorised post-assessment into the following Phytophthora Dieback occurrence categories (Table 2).

Table 1 - Keighery Vegetation Condition Scale

Scale		Vegetation condition
1	Pristine	Pristine or nearly so; no obvious signs of disturbance.
2	Excellent	Vegetation structure intact; disturbance affecting individual species and weeds are non-aggressive species.
3	Very good	Vegetation structure altered; obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

4	Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
5	Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
6	Completely degraded	The structure of the vegetation is no longer intact, and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Table 2 - Phytophthora Dieback assessment for vegetation condition

Vegetation Condition	Phytophthora occurrence category
Naturally vegetated areas. Keighery disturbance rating of 3 or less Phytophthora occurrence categorisation is possible	Uninterpretable - Undisturbed areas where susceptible plants are absent, or too few to make a determination of the presence or absence of <i>P. cinnamomi</i> .
Vegetation structure severely altered. Keighery disturbance rating 4 or greater. Phytophthora occurrence assessment is not possible	Excluded.

3.2 The assessment method

All Phytophthora Dieback detection, diagnosis and mapping were performed to standards and procedures defined in the Interpreters Manual. These procedures are grounded on the

presence in the vegetation of Indicator Species and the observance of deaths in these plants. An indicator species is a plant species that is reliably susceptible to *Phytophthora cinnamomi*. Indicator species deaths (ISDs) alone do not necessarily indicate disease presence, and it was necessary to consider all environmental and ecological factors that may be present. These other factors included:

- Chronology of deaths;
- A pattern of deaths;
- Topographical position;
- Vectoring – causal agencies, and;
- Biomass and biological diversity reduction.

Other causes of plant deaths that were considered when determining the presence of *Phytophthora Dieback* included:

- drought, wind scorch and frost;
- salinity and waterlogging;
- senescence and competition, and;
- physical damage.

A linear assessment of the access track was conducted, and a comprehensive assessment of the proposed well site.

Before the assessment, all relevant information relevant to the project was assembled to assist the interpretation process. This information included possible recordings of *Phytophthora Dieback* in the area, history of burning, and vegetation mapping.

3.3 Collection of evidence of *Phytophthora Dieback*

During the assessment process, the collection of evidence to support the field diagnosis was recorded using a tablet running the ESRI Collector application. Waypoints were recorded at locations to show evidence of:

- sites with too few or devoid of indicator species, thus supporting uninterpretable classification, and

- areas of disturbance, which are excluded from the assessment.

3.4 Demarcation

No field demarcation was required from the assessment.

4 Results

4.1 Allocation of categories

Table 3 - Assessment area statement

Category	Area (ha)	Protectable Area (ha)	% of total area
Infested	0.00	0.00	0%
Uninfested	0.00		0%
Uninterpretable	4.31	4.31	67%
Temporarily Uninterpretable	0.00		0%
Assessed Area	4.31	4.31	
Excluded	2.11		

4.2 Disease distribution

Phytophthora Dieback was not observed within the Project Area.

4.3 Ecosystem health

The vegetation within the development envelope is mostly in excellent condition with little to no weed coverage and no evidence of dieback infestation (*Phytophthora cinnamomi*). Small areas consisting of the existing access tracks and adjacent surrounds, are rated as Degraded to Good condition (Environmental Protection Agency, 2021).

4.4 Excluded areas

Excluded areas are not assessed for the presence of Phytophthora Dieback due to the level of disturbance of the vegetation, based on the Keighery Vegetation Condition Scale.

4.5 Uninterpretable

The vegetation within the Project Area has been mapped as:

- *Acacia rostellifera* over weeds
- Tall to mid open shrubland of *Acacia rostellifera*, *Melaleuca cardiophylla*, *Melaleuca huegelii* subsp. *huegelii* and *Santalum acuminatum* over low sparse shrubland of

Melaleuca systema over low open sedgeland of *Gahnia* sp. on grey clayey sand in swales between dunes.

- Tall closed shrubland of *Melaleuca cardiophylla* and/or *Melaleuca huegelii* subsp. *huegelii* on slopes of grey-brown sandy loam.
- Tall closed shrubland to low sparse shrubland of *Acacia rostellifera*, *Melaleuca cardiophylla*, *Melaleuca huegelii* subsp. *huegelii*, *Melaleuca systema*, *Olearia* sp. over low sedgeland of *Lepidosperma calcicola* on flats of grey-brown sandy loam.
- Mid open to closed mallee forest of *Eucalyptus obtusiflora* subsp. *dongarraensis* and *Eucalyptus oraria* over mid to tall sparse shrubland of *Melaleuca cardiophylla* and *Melaleuca huegelii* subsp. *huegelii*, with occasional *Acacia rostellifera* and *Melaleuca lanceolata* on slopes of grey sand.

None of these vegetation types contained species that are considered reliable indicators of the presence of *Phytophthora Dieback*.

5 Discussion

The vegetation within the Project Area was assessed for the presence of *Phytophthora* Dieback in June 2021 by Evan Brown. Approximately one third of the Project Area has been classified as Excluded due to being devoid of vegetation, and the remaining vegetation has been classified as Uninterpretable as *Phytophthora* Dieback indicating species were not present.

Aside from the lack of *Phytophthora* Dieback indicating species, the soil composition within the Project Area is not conducive to the disease development. The calcareous sands closest to the coast are alkaline and hostile to *Phytophthora cinnamomi* (Department of Parks and Wildlife, 2015). These conditions are suitable for other *Phytophthora* species, particularly *P. multivora*. Based on sample data, *P. multivora* is collected regularly from sites in the southwest of Western Australia, second only to *P. cinnamomi*. The plant species susceptible to *P. multivora* are not as well documented compared to *P. cinnamomi* however the condition of the vegetation at the time of assessment did not show any vegetation or biomass decline that would be considered caused by a *Phytophthora*.

For hygiene purposes, the entire Project Area can be managed as a single category with Clean Down Points not required at the interface of Excluded and Uninterpretable. It would be expected that all vehicles, machinery and assets brought to site are clean prior to accessing the Project Area.

6 Bibliography

Commonwealth of Australia. (2018). *Threat abatement plan for disease in natural ecosystems caused by Phytophthora cinnamomi*.

Department of Parks and Wildlife. (2015). *FEM047 Phytophthora Dieback Interpreter's Manual for lands managed by the department*. Unpublished.

Environmental Protection Agency. (2021). *Cervantes-01 Conventional Well Drilling Proposal*.

Keighery, B. (1994). *Bushland Plant Survey: a Guide to Plant Community Survey for the Community*. Wildflower Society of WA (Inc.).

7 Appendices

7.1 Phytophthora Dieback Occurrence map

The provided map is the Phytophthora Dieback occurrence map.

The following categories are shown:

- Excluded (shown as uncoloured). Areas of high disturbance where natural vegetation has been cleared and is unlikely to recover to a level that is interpretable.
- Uninterpretable (shown as a purple). Undisturbed areas where susceptible plants are absent, or too few to decide the presence or absence of Phytophthora Dieback.

Appendix C Risk Assessment of Marl Source



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Risk assessment of marl source for RCMA Cervantes site

As part of RCMA's development of the Cervantes 01 site, marl will be used to construct access tracks and drill pads. The Hygiene Management Plan (HMP) proposed by RCMA (RCMA-02-EM-PLN-003) has the objective to prevent the introduction or spread of Phytophthora Dieback into Beekeepers Nature Reserve because of RCMA activities.

RCMA contracted Glevan Consulting to provide an assessment of the extraction pit to be used as the source of the marl for the presence of Phytophthora Dieback. The pit has been used for many years as a source of marl.

The current Department of Biodiversity, Conservation and Attractions standard for the interpretation of pits states that:

- pits or stockpiled raw material cannot be given uninfested categorisation based on randomly placed negative sample results.
- proposed pits may only be assessed as uninfested if the pit area consists of low disturbance, interpretable vegetation
- existing pits that are uncontrolled and have not been managed for Phytophthora will not be assessed as uninfested (Forest and Ecosystem Management (FEM), 2017).

As the proposed source of marl is an existing pit (Figure 1 - Marl pit), and devoid of vegetation that would display symptoms of Phytophthora disease, the pit could not be considered Uninfested when inspected on 22 September 2020.



Figure 1 - Marl pit

It is possible that native *Phytophthora*, particularly *P. arenaria*, may be present in the marl pit. This species has been recorded at many locations in the region (Figure 2 - *P. arenaria* location in general area) and appears to cause minor disease symptoms. It was considered that the likelihood of non-native *Phytophthora* (and therefore those most likely to cause significant disease) being present in the marl pit could be determined using the following criteria:

- Environmental conditions at the pit site.
- Distance to known non-native *Phytophthora* locations.
- Presence of *Phytophthora* Dieback where marl from the pit has been used in recent times.

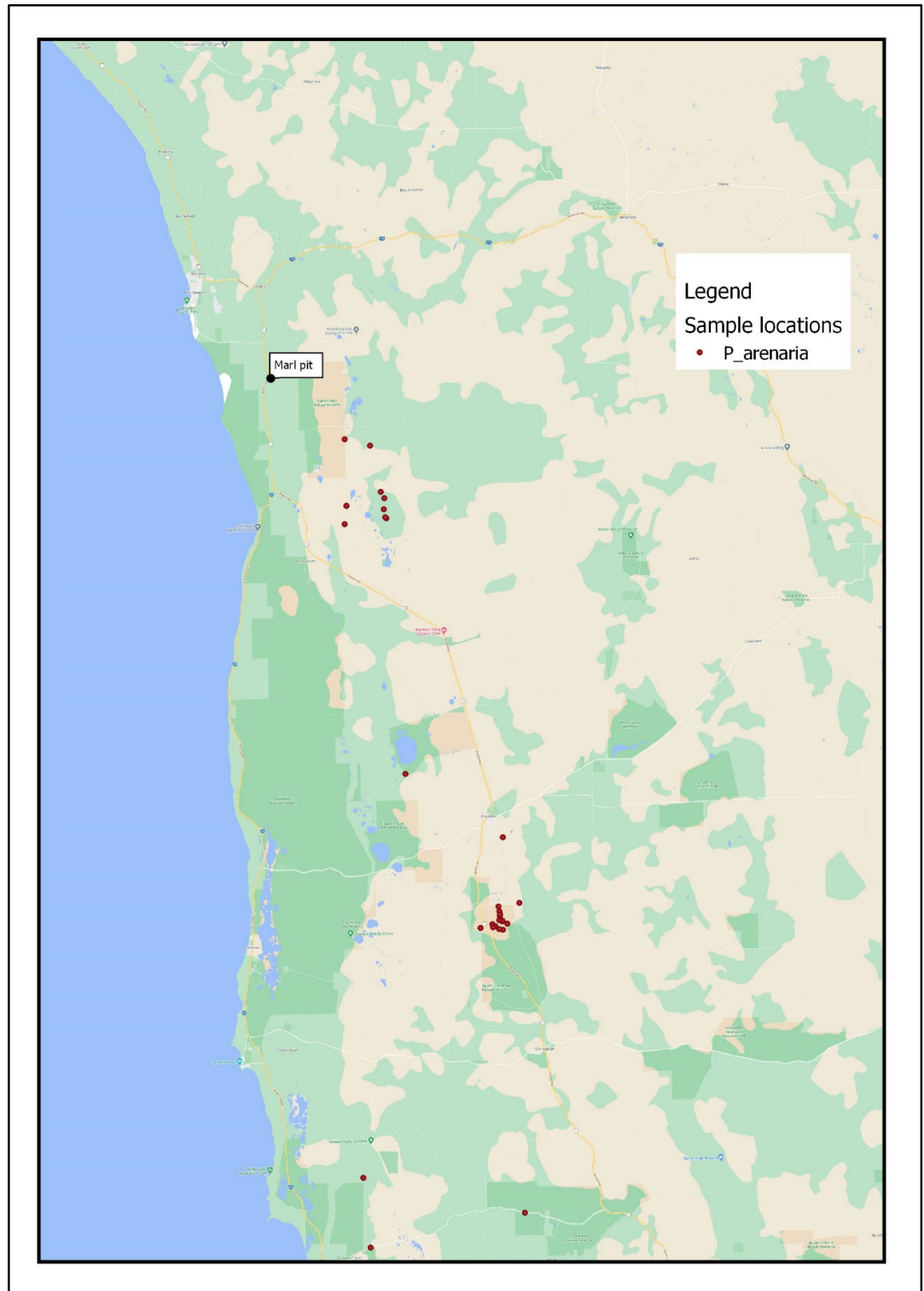


Figure 2 - *P. arenaria* location in general area

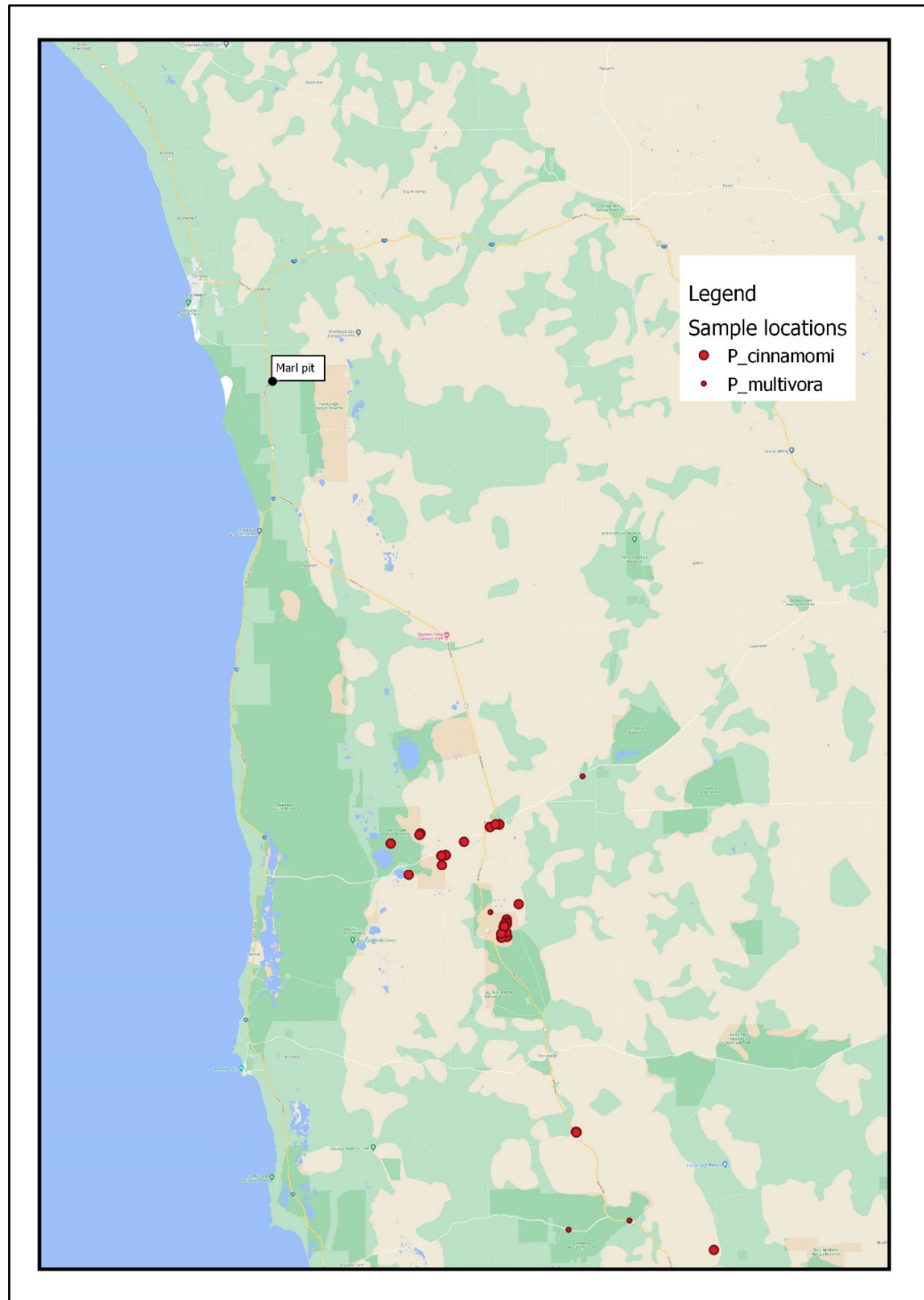


Figure 3 - *P. cinnamomi* and *P. multivora* locations

Environmental conditions at the pit site.

The existing pit, located on the eastern side of Brand Highway, and approximately 4 km south of the Brand Highway, Pye Road, Kailis Drive intersection, is obviously calcareous. These soils are alkaline and hostile to *Phytophthora cinnamomi* but are favourable to *P. multivora* (Forest and Ecosystem Management (FEM), 2017). There is a very low likelihood of *P. cinnamomi* being present at the site.

Distance to known non-native Phytophthora locations.

The closest locations of Phytophthora Dieback caused by non-native species surround the Eneabba townsite, approximately 55 kilometres south-east of the marl pit (*Figure 3 - P. cinnamomi* and *P. multivora* locations). The environmental conditions around the Eneabba townsite are different to the marl site in that the soils are more acidic and therefore allow *P. cinnamomi* (where present) to cause significant disease in those conditions. The distance to these known locations suggests the low likelihood of these species being present in the marl pit site.

Presence of Phytophthora Dieback where marl from the pit has been used in recent times.

As it was not possible to assess the presence of Phytophthora in the existing pit, some sites where the marl extracted from the pit was used to develop roads were assessed for the presence of Phytophthora. It was assumed that if Phytophthora were present in the marl it would cause disease in the vegetation adjacent to the constructed road.

Two roads were assessed, both in Yandanogo Nature Reserve. One had been constructed within twelve months of assessment date, the other some years previous.

The new road (*Figure 4 - Newly constructed track*) had some recent Banksia deaths which were sampled compositely, that is taking soil and root material from multiple locations. This sample returned a negative result to the presence of Phytophthora.



Figure 4 - Newly constructed track

The older track had been assessed during previous years without the observation of *Phytophthora Dieback*. During the current assessment, some recent deaths were observed but were not associated with the track construction. Although access to the track had been blocked at the intersection of Mount Adams Road, an alternative access had been pushed through the vegetation to allow non-authorised access.

Conclusion

Based on the aforementioned criteria for determining the likelihood of presence of *Phytophthora* in the marl pit, this investigation has determined that likelihood being very low for non-native *Phytophthora* species. This opinion was also expressed by Department of Biodiversity, Conservation and Attractions officers during the site visit on 22 September 2020.


Evan Brown.

Senior Interpreter, Project Manager.

Appendix D Introduced Taxa Known from Within the Desktop Study Area

Taxon	Common Name
<i>Arctotheca calendula</i>	Cape Weed
<i>Avena barbata</i>	Bearded Oat
<i>Brassica tournefortii</i>	Mediterranean Turnip
<i>Briza minor</i>	Shivery Grass
<i>Dischisma arenarium</i>	Dischisma
<i>Echium plantagineum</i>	Paterson's Curse
<i>Erodium cicutarium</i>	Common Storksbill
<i>Euphorbia peplus</i>	Petty Spurge
<i>Euphorbia terracina</i>	Geraldton Carnation Weed
<i>Galium murale</i>	Small Goosegrass
<i>Leontodon rhagadioloides</i>	Cretan Weed
<i>Lycium ferocissimum</i>	African Boxthorn
<i>Lysimachia arvensis</i>	Pimpernel
<i>Medicago polymorpha</i>	Burr Medic
<i>Melilotus indicus</i>	-
<i>Reichardia tingitana</i>	False Sowthistle
<i>Rostraria pumila</i>	Tiny Bristle Grass
<i>Silene gallica</i> var. <i>gallica</i>	Common Catchfly
? <i>Silybum marianum</i>	Blessed Thistle
<i>Sonchus oleraceus</i>	Common Sowthistle
<i>Sonchus</i> sp.	-
<i>Vulpia myuros</i> forma <i>myuros</i>	Rats-tail Fescue
<i>Vulpia</i> sp.	-

Appendix E Hygiene Procedure [RCMA-02-EM-PRO-001]

	Approver: K Aitken	Document Number: RCMA-02-EM-PRO-001
	Reviewer: M Jenkins	Revision: v0
	Originator: A Wills	Issue Date: 08/09/2020
Cervantes 1 Hygiene Procedure		

1. Process Summary

This document contains work instructions on the hygiene procedures in place for accessing the Cervantes 1 development envelope. The aim is to minimise the risk of weeds or dieback being introduced to or spread into the Beekeepers Nature Reserve (BKNR) through operations associated with RCMA activities.

0	08/09/2020	Issued with HMP	ASW	MJ	KA
A	30/04/2020	Drafted	ASW	MJ	KA
Rev	Issue Date	Revision Summary	Originator	Reviewer	Approver

2. Scope

This document applies to RCMA activities within BKNR:

- Mobilisation to site of equipment, vehicles and personnel
- Personnel, contractor and visitor access
- All vehicle movement
- All site preparation activities
- All closure and rehabilitation activities

3. References

Document Code	Document Title
RCMA-02-EM-PLN-003	Cervantes 1 Hygiene Management Plan
RCMA-02-EM-FM-003	Hygiene Inspection Log
RCMA-02-EM-PLN-001	Cervantes 1 Conventional Well Environment Plan
RCMA-02-EM-PLN-004	Cervantes 1 Vegetation Management Plan
RCMA-07-TM-FM-004	Cervantes 1 Induction
RCMA-02-EM-PLN-006	Cervantes 1 Site Preparation Plan
RCMA-02-EM-PLN-008	Cervantes 1 Rehabilitation Plan

4. Term Definitions & Abbreviations

Term or Abbreviation	Definition
BKNR	Beekeepers Nature Reserve
Clean-down	Inspection and vehicle brush down
<i>P. cinnamomi</i>	<i>Phytophthora cinnamomi</i>
RCMA	RCMA Australia Pty Ltd
Wash-down	Inspection and (wet) wash down

5. Hygiene Requirements are Mandatory

		Responsibility
5.1	Weed seeds are easily transported on vehicle tyres, vehicle under bodies, vehicle floors and footwear.	
5.2	The dieback pathogen, <i>P. cinnamomi</i> , is easily transported in wet soil or mud.	
5.3	All vehicles and machinery are to be inspected for the presence of mud, dirt, vegetation and seeds at the point of mobilisation (Dongara or Perth).	Driver of Vehicle
5.4	On arrival at the designated hygiene inspection point at JPF, all vehicles must be inspected prior to entry to the Cervantes 1 access track.	Driver of Vehicle
5.5	Vehicles and equipment are not to deviate from the permitted development envelope.	All Personnel
5.6	All personnel and contractors are to receive an induction that outlines these mandatory requirements.	Project Manager

6. Hygiene Instructions

		Responsibility
6.1	Inspect the inside and outside of the vehicle. Ensure that it is free of weeds, plant matter, seeds and soil. Remove any material from the vehicle and place in the bin. Ensure the vehicle mats are checked.	Driver of Vehicle
6.2	Under moist conditions, mud must be washed from the vehicle. Wash down the vehicle to remove all wet soil or mud. Pay particular attention to wheel arches and any flat surfaces on the underside of the vehicle that could hold wet soil or mud.	Driver of Vehicle
6.3	Check tyres are free of material (eg double gees, soil clods). Remove any material from the tyres and place in the bin.	Driver of Vehicle
6.4	Check footwear for seeds or soil. Place any material into the bin.	All Vehicle Occupants
6.5	There is no need to wash the paintwork on any vehicle (dust on door panels) unless there is wet soil or mud on the panels. If there is a need to wash wet soil or mud off paintwork it is best to use a broad spray rather than a high-pressure jet. Spraying paintwork with a high-pressure jet at close range can damage the painted surface.	
6.6	Once vehicle has been cleaned or washed down, sign the Hygiene Inspection Log located in the waterproof container.	Driver of Vehicle
6.7	Brush or wash-down the inspection bay once hygiene inspection and vehicle cleaning are complete.	Driver of Vehicle

Appendix F Hygiene Inspection Log [RCMA-02-EM-FM-003]



Hygiene Inspection Log

Location: _____

[illegible]

Appendix G Example Hygiene Station



Appendix H Stakeholder Consultation Register

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
DMIRS Environment	14/10/2019	Meeting	Ken Aitken (RCMA) Stan Bowes (DMIRS) Jacqui Middleton (DMIRS) Rohan Kok (DMIRS)	Cervantes 1 Proposal	MEL to Meet with EPA MEL to Appoint Environmental Professional MEL to prepare Env applications with DMIRS/EPA in parallel MEL to plan a cross functional planning meeting with all regulatory departments present in early November.
DMIRS Environment	16/10/2019	Email	Ken Aitken (RCMA) Stan Bowes (DMIRS) Jacqui Middleton (DMIRS) Rohan Kok (DMIRS) David Maher (Jade) Aveline Chan (RCMA) Chris Newport (RCMA)	Follow up to DMIRS Environment Meeting on Cervantes 1 Proposal	Documentation of Actions from Meeting: <ul style="list-style-type: none"> Meet with EPA within next 5-7 working days Appoint Environmental Professional before end of October Proceed preparing environmental applications with DMIRS/EPA in parallel on appointing environment professional Plan a cross functional planning meeting with all regulatory departments present in early November
DMIRS Environment	17/12/2019	Meeting	Ken Aitken (RCMA) Stan Bowes (DMIRS) Jacqui Middleton (DMIRS) Rohan Kok (DMIRS) Andrea Wills (RCMA)	Cervantes 1 Proposal Update <ul style="list-style-type: none"> Drilling surface location envelope identified Surveys underway Referral being drafted EP being compiled 	EP and OSCP to be submitted with referral end of January 2020
DMIRS Environment	20/02/2020	Meeting	Ken Aitken (RCMA) Stan Bowes (DMIRS) Jacqui Middleton (DMIRS) Rohan Kok (DMIRS) Andrea Wills (RCMA) Chris Newport (RCMA)	Cervantes 1 Proposal Update <ul style="list-style-type: none"> Cervantes 1 Referral Update EP and OSCP update, Metgasco have an office in West Perth 	Consensus for RCMA to submit EP and OSCP once supporting documentation has gone to DBCA
DMIRS Environment	24/07/2020	Online Database Email	EARS Andrea Wills (RCMA)	Submission of the Cervantes 1 Conventional Oil Exploration Well Environment Plan, Environment Plan Summary and Oil Spill Contingency Plan.	Application Summary received by email via adam@refinegroup.com.au
DMIRS Environment	19/08/2020	Email Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS Request for further information on the Cervantes 1 Conventional Oil Exploration Well Environment Plan and Oil Spill Contingency Plan.	A phone discussion on rehabilitation was had on the 09/09/2020 to clarify the corresponding actions.
DMIRS Environment	24/09/2020	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	RCMA queries on two of DMIRS requests for information <ul style="list-style-type: none"> Queries in regard to fauna management were relevant to a new marl pit. It wasn't clear in the EP that the marl pit was existing. This should be stated more clearly in the EP. The requirement for moderate is on the RCMA matrix and not on the sample DMIRS matrix despite the overly conservative RCMA matrix. 	DMIRS satisfied for RCMA to resubmit EP late October with Flora survey results only as long as heritage commitments have been included.
DMIRS Environment	19/10/2020	Phone	Stan Bowes (DMIRS) Andrea Wills (RCMA)	RCMA called DMIRS to ask for a contact in the Resources Safety Branch. DMIRS referred RCMA to Bruce Franzi. RCMA gave DMIRS an update on the progress of the Cervantes 1 project.	RCMA to contact Bruce Franzi
DMIRS Environment	20/10/2020	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	RCMA gave DMIRS an update on the status of the Spring Survey and proposed resubmission of the EP and OSCP.	RCMA to resubmit EP and OSCP end of October
DMIRS Environment	28/10/2020	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	RCMA has resubmitted the OSCP (22/10/2020) and EP (26/10/2020) however the contact directory, which has not been amended since the last submission was not uploaded with the OSCP. DMIRS advised to email the contact directory through. RCMA asked about the 15A referral which DMIRS advised would not be sent until RCMA put in their Titles Compliance Branch Application.	RCMA to email contact directory to DMIRS and follow up Titles Compliance Branch Application within RCMA.
DMIRS Environment	10/11/2020 & 11/11/2020	Phone and email	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA enquired whether Laura Burns could follow up with Petroleum Titles in regard to the Section 15A process as Titles had provided	DMIRS Followed up with Titles and advised by phone call on 11/11/2020 that the Resource Tenure Branch will be responsible for progressing any required

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
				some confusing advice which indicated that it is the Environment Division who undertake this Referral.	section 15A referrals. This was followed up with an email with the Resource Tenure Branch contact.
DMIRS Environment	16/11/2020	Email & Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS requested additional modifications on Rev 2 of the Environment Plan. RCMA contacted DMIRS by phone 17/11/2020 to discuss each request individually. Each item was discussed and consensus on how the item was to be addressed was achieved.	RCMA to modify the EP to address each item raised.
DMIRS Environment	18/11/2020	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS contacted RCMA to advise that a clearing permit would be required if the EPA did not assess the Cervantes 1 proposal. RCMA advised DMIRS that the clearing was exempt under Regulation 5 item 24 of the Clearing of Native Vegetation Regulations. DMIRS advised that Cervantes is in a Schedule 1 area, so it was not exempt. RCMA advised that Item 24 was clearing for Petroleum Exploration and not low impact petroleum activities which Schedule 1 applied to.	DMIRS were not aware of this provision and were going to follow up.
DMIRS Environment	18/11/2020	Email	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA forwarded a copy of the Hygiene Management Plan and the Marl Assessment Report to DMIRS in response to query 18 sent through 16/11/2020.	DMIRS acknowledged receipt of the reports.
DMIRS Environment	15/12/2020	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA enquired whether DMIRS received Rev 3 of the Cervantes 1 EP. DMIRS has received EP and will be assessing it either before or after the Christmas break. However, the EP will not be approved until the EPA decision and 15A processes are complete. DMIRS enquired whether there were any updates from EPA or DBCA. RCMA advised that EPA had received advice from DBCA and were now seeking advice from DMIRS on how they will manage the regulation of clearing associated with the proposal given that it is exempt from the requirements of a clearing permit. RCMA advised that DBCA had requested further information on bushfire management which RCMA had promptly provided. There was discussion on whether additional communications with DBCA were required.	DMIRS to call EPA to find out details of their request for advice. DMIRS will be in contact before the break to relay progress of assessment.
DMIRS Environment	22/12/2020	Email	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS provided queries on Rev 3 of the Cervantes 1 EP. Queries relate to Well Testing, Rehabilitation (including consultation with DBCA) and Reporting of Incidents.	RCMA are invited to contact DMIRS if they have any questions.
DMIRS Environment	5/01/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	Discussion and clarification on DMIRS queries provided on Rev 3 of the Cervantes 1 EP.	RCMA to consult DBCA on a revised Rehabilitation Plan with firm completion criteria. RCMA to then resubmit revised Cervantes 1 EP.
DMIRS Environment	21/01/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	Update on status of consultation with DBCA, heritage survey and EPA decision	RCMA to continue consulting with DBCA on Well Testing and Rehabilitation. RCMA to notify DMIRS of EPA decision.
DMIRS Environment	04/02/2021	Email	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA forwarded excerpt from updated EP and a copy of the revised Rehabilitation Plan sent to DBCA for review and endorsement.	RCMA seek DMIRS feedback on the rehabilitation content provided.
DMIRS Environment	11/02/2021	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS responding to RCMA's request for feedback on the rehabilitation content proposed for the upcoming revision of the EP. In summary, DMIRS will be satisfied with the objectives and completion criteria when DBCA has endorsed them. The rest of the content is there with the exception of monitoring which RCMA explained is in the later section of the EP identical to the content provided in the Rehabilitation Plan. DMIRS noted that they had discussed their concerns with some of the current completion criteria with DBCA (eg. weeds not significantly greater than surrounding areas).	RCMA to continue consultation with DBCA prior to resubmitting EP once Rehabilitation Plan is endorsed.
DMIRS Environment	12/02/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA notifying DMIRS that RCMA would be committing to a rehabilitation bond in the Cervantes 1 Environment Plan. It would be for the amount of \$100,000 in place until the achievement of completion criteria.	
DMIRS Environment	30/04/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA notifying DMIRS that the Rehabilitation Plan has been finalised and sent to the EPA. DMIRS advised that RCMA should hold	RCMA to hold off submitting EP until it has been updated with EPA Ministerial Statement conditions.

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				off resubmitting the EP until the conditions of the EPA assessment can be included in the EP.	
DMIRS Environment	17/08/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA notification to DMIRS that the EP was ready to be resubmitted and provision of an update on the process with the Appeals Convenor.	EP and EP Summary Rev 4 uploaded to EARS 18/08/2021. Management Plans were emailed to DMIRS 18/08/2021. The email included an update on the meeting held with the Appeals Convenor earlier that day.
DMIRS Environment	09/11/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA update DMIRS on progress of EPA process and enquiry on revision of EP to include choice of supplier for cementing chemicals (either Schlumberger or Halliburton) as it depends if we get the rig after Strike or after Mitsui to which supplier will be used.	RCMA to update chemical disclosure as well as timing and rig details in EP.
DMIRS Environment	18/11/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	Discussion on Jingemia Production Facility audit. RCMA update on EPA process.	
DMIRS Environment	02/12/2021	Phone	Laura Burns (DMIRS) Andrea Wills (RCMA)	DMIRS plan to accept the Cervantes 1 EP Rev 5 however require RCMA to submit an email commitment to capping all drill pipe not in use. DMIRS followed this call with an email request.	RCMA responded 02/12/2021 with the commitment to cap all drill pipe not in use. The EP and FMP were updated and corresponding pages forwarded to DMIRS 03/12/2021.
DMIRS Environment	14/12/2021	Email	Andrea Wills (RCMA) Laura Burns (DMIRS)	A copy of the Ministerial Statement was forwarded to DMIRS.	RCMA forwarded the final environmental approval to DMIRS 15/12/2021.
DMIRS Environment	17/12/2021	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA inquiry into status of Section 15A referral. RCMA advised DMIRS of the issue with EPA not reviewing the Management Plans and that these were waiting with DBCA.	DMIRS to follow up with Titles Branch on whether they have received signoff from Minister. DMIRS responded by phone to advise RCMA that the Section 15A referral signoff had not been received by Titles Branch.
DMIRS Environment	04/01/2022	Phone	Andrea Wills (RCMA) Laura Burns (DMIRS)	RCMA inquiry as to period of surveillance monitoring prior to drilling activities. DMIRS advised that as long as surveillance monitoring was undertaken before drilling it was acceptable. RCMA updated DMIRS on Management Plans (DBCA have until 19 th January to review) and Section 15A referral (will most likely wait until EPA has finished their process).	
DMIRS Environment, Safety and Titles	18/01/2022	Meeting	Ken Aitken (DMIRS) Laura Burns (DMIRS) Rohan Kok (DMIRS) Hassan Fatahi (DMIRS) Bruce Franz (DMIRS) Maggie Fleming (DMIRS) Mark Jenkins (Aztech) Carlo Cottino (Aztech)	Meeting held with DMIRS personnel to provide: <ul style="list-style-type: none"> Cervantes Project Overview HSE approvals status Current Project Schedule AOB Questions 	
DMIRS Safety	20/10/2020	Email	Bruce Franz (DMIRS) Andrea Wills (RCMA)	RCMA contacted DMIRS as part of their safety planning engagement for the Cervantes 1 project. Bruce directed RCMA to their case manager Kevin Clary.	Kevin Clary will get in contact with RCMA.
DMIRS Safety	26/10/2020	Phone	Kevin Clary (DMIRS) Andrea Wills (RCMA)	Discussion in regard to safety approvals for RCMA's Cervantes 1 proposal. RCMA advised that under Regulation 32 of the <i>Petroleum and Geothermal Energy Resources (Management of Safety) Regulations 2010</i> a bridging document to the Jingemia Production Facility Safety Management System is required.	Kevin Clary provided his contact details for RCMA to get in touch when required.
DMIRS Safety	30/11/2020	Phone	Kevin Clary (DMIRS) Andrea Wills (RCMA)	Discussion about the Civils safety management plan in relation to the Refine Bridging Document. Kevin most comfortable with the Refine BD only.	Chris Newport to resubmit the Refine BD to the Director of Petroleum Safety.
DMIRS Safety	28/05/2021	Phone	Andrea Wills (RCMA) Kevin Clary (DMIRS)	RCMA notified DMIRS that they would no longer be utilising the Refine Rig to drill the Cervantes 1 well and clarified the requirements for their submission. DMIRS requested the contact details for RCMA contacts be sent through.	RCMA followed call up with an email outlining new RCMA contacts since the Refine Rig will no longer be utilised and notification that a new submission will be provided.
DMIRS Safety	18/07/2021	Email	Andrea Wills (RCMA) Kevin Clary (DMIRS)	RCMA submitted Civils Safety Management Plan and revoked Refine Drilling Safety Bridging Document	DMIRS acknowledged receipt of document 19/07/2021. DMIRS raised anomalies to correct in submission letter (reference to regulation, signatory) on 20/07/2021 and requested resubmission of document with revised cover letter 21/07/2021./
DMIRS Safety	22/07/2021	Email	Andrea Wills (RCMA) Kevin Clary (DMIRS)	RCMA submitted the Civils Safety Management Plan and revoked Refine Drilling Safety Bridging Document with a revised cover letter	DMIRS sent through an approval letter for the Civils SMP 10/08/2021.

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					DMIRS provided some feedback on the Civils SMP and some guidance for the development of our Drilling SMP on 11/08/2021.
DMIRS Safety	16/12/2021	Phone	Andrea Wills (RCMA) Kevin Clary (DMIRS)	RCMA updated DMIRS on progress of Cervantes 1 proposal. RCMA let DMIRS know that the Drilling Safety Bridging Document was about to be submitted and the contact would be Mark Jenkins and to expect that submission from him shortly.	
DMIRS Safety	16/12/2021	Phone	Mark Jenkins (Aztech) Kevin Clary (DMIRS)	Submission of Drilling Safety Bridging Document	RCMA received approval for the document 23/12/2021.
DMIRS Safety	18/01/2022	Email	Kevin Clary (DMIRS) Andrea Wills (RCMA)	DMIRS request for RCMA contacts	RCMA sent list of contacts 19/01/2022
DMIRS Titles	09/11/2020	Email	Allison Cohen (DMIRS) Andrea Wills (RCMA)	DMIRS responded to RCMA's query on the Section 15A timeframe now that Cervantes 1 had been registered in PGR. The response was not clear referring RCMA to the Environment Branch and RCMA followed up the Environment Branch. DMIRS advised that the Authority to Act was not adequate before realising that their definition of a deviated well did not include wells deviated within the same permit. RCMA were to withdraw their registration and reapply as a non-deviated well.	RCMA emailed DMIRS to withdraw deviated well application. RCMA reapplied for non-deviated well.
DMIRS Titles	18/11/2020	Email	Sandip Patel (DMIRS) Mark Jenkins (RCMA)	DMIRS request for a brief technical summary of the Cervantes 1 well for the DBCA referral as the well application was not submitted with a WMP. Technical summary to include: <ul style="list-style-type: none"> • Exploration or Appraisal well? • Deviated? Maximum inclination? • Objectives (primary/secondary target) • Number of sections to be drilled (surface, intermediate, production) and section depth • Duration of the well operations • Purpose and status of the well at end of drilling 	Mark Jenkins submitted a Well Summary by email 20/11/2020.
DMIRS Titles	02/02/2021	Email	Andrea Wills (RCMA) Megan Harrison (DMIRS) Sandip Patel (DMIRS)	RCMA contacted DMIRS with issues uploading the Cervantes 1 Well Management Plan. Sandip loaded the WMP onto the PGR System but noted that the application would remain on hold until the insurance information is provided.	
DMIRS Titles	02/02/2021	Email	Paul O'Shea (RCMA) Sandip Patel (DMIRS)	RCMA inquired as to whether the WMP assessment could proceed in the absence of insurance details. DMIRS advised that if the application does not contain all information it is put on hold.	
DMIRS Titles	03/12/2021	Email	Andrea Wills (RCMA) Sandip Patel (DMIRS) Ikae Brown (DMIRS) Sunil Varma (DMIRS) Walter Law (DMIRS)	RCMA submission of amended Well Management Plan.	DMIRS responded with acknowledgement and confirmation of loading document into PGR.
DMIRS Titles	24/12/2021	Email	Sandip Patel (DMIRS) Andrea Wills (RCMA) Sunil Varma (DMIRS) Walter Law (DMIRS) Hassan Fatahi (DMIRS) Maggie Flemming (DMIRS)	DMIRS request for further information on the Cervantes 1 Well Management Plan.	RCMA acknowledged the request 24/12/2021.
EPA	23/10/2019	Email	Helen Butterworth (EPA) Chris Newport (RCMA)	Confirmation of meeting on 28/10/2019	Request to complete "1.1 Pre-Referral EPA Factors Objectives Table" prior to meeting
EPA	28/10/2019	Meeting	Helen Butterworth (EPA) Robert Hughes (EPA) Chris Newport (RCMA) Ken Aitken (RCMA)	Briefing on proponents and Cervantes 1 Proposal	MEL to conduct flora and vegetation survey MEL to refer proposal
EPA	16/12/2019	Email	Helen Butterworth (EPA) Ken Aitken (RCMA)	Request for an update meeting	Meeting organised for the 23/12/2019 and the Pre-referral EPA Factors Objectives Table submitted to EPA 18/12/2019
EPA	23/12/2019	Meeting	Helen Butterworth (EPA)	MEL updated EPA on Cervantes 1 Proposal progress.	Outcomes included:

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			Robert Hughes (EPA) Ken Aitken (RCMA) Andrea Wills (RCMA)		<ul style="list-style-type: none"> Robert offered to provide names / links of relevant offset policies possibly relevant to track clearing EPA also suggested repeated reference to “conventional” and “this proposal is not fracking” in the referral documentation EPA suggested that the Woodman report be submitted for EPA technical review ahead of a January meeting pre-referral submission to ensure the submission was acceptable on first submission
EPA	10/02/2020	Email	Helen Butterworth (EPA) Andrea Wills (RCMA)	Submission of Desktop Flora Fauna Report	Confirmation of receipt email.
EPA	13/02/2020	Phone Email	Helen Butterworth (EPA) Andrea Wills (RCMA)	Advice from EPA on adequacy of Desktop Flora Fauna Report for referral submission	EPA advise MEL to conduct their on ground surveys in accordance with EPA guidance and submit to EPA for technical assessment prior to submission of the Cervantes 1 Referral
EPA	03/04/2020	Email	Helen Butterworth (EPA) Andrea Wills (RCMA)	Submission of Field Flora Fauna Report	Confirmation of receipt email.
EPA	30/04/2020	Phone and Email	Skye Tuffin (EPA) Andrea Wills (RCMA)	Submission of memo clarifying areas of impact	Confirmation of receipt email.
EPA	15/05/2020	Phone and Email	Skye Tuffin (EPA) Andrea Wills (RCMA)	Letter from Robert Hughes (EPA) in response to submission of field Flora and Fauna report.	RCMA to prepare a response and organise a meeting
EPA	26/05/2020	Phone	Skye Tuffin (EPA) Andrea Wills (RCMA)	Request for a meeting to discuss EPA feedback on RCMA field Flora and Fauna report as there appears to be a misinterpretation of the vegetation part of the report for example the feedback states that community and condition mapping is required however there is community and condition mapping in Appendix K and N. The feedback also reports a significant reliance on the Denison data and requirements for surveying above and beyond the requirements of the EPA Guideline. The fauna specialist is working to respond to all concerns raised with no major issues on the feedback.	ST agreed to organise a “Microsoft TEAMS” meeting with the relevant EPA personnel. AW to email a list of RCMA attendees
EPA	03/06/2020	Meeting	Skye Tuffin (EPA) Helen Butterworth (EPA) Kelly Freeman (DWER) Ken Aitken (RCMA) Andrea Wills (RCMA) Greg Woodman (WEC)	Meeting to discuss flora and vegetation aspects of EPA feedback on RCMA Flora and Fauna report. Apologies submitted by Wendy Hudleston (DWER) who was the DWER/EPA person who had reviewed the report. Without Wendy at the meeting it was difficult to have any meaningful discussion about the issues raised in her review namely the requirement for detailed survey, the requirement for Spring survey and the reliance on Denison data.	Group resolved that RCMA would forward their three main questions on the feedback and a second meeting with Wendy in attendance would be organised once she had reviewed the questions.
EPA	09/06/2020	Phone Message & Email	Skye Tuffin (EPA) Andrea Wills (RCMA)	Enquiry into status of second meeting	Advice that there will be no meeting before 15/06/2020
EPA	10/06/2020	Phone	Helen Butterworth (EPA) Ken Aitken (RCMA)	Delay in meeting timing	Follow up email from HB advising that Kelly Freeman and Wendy Hudleston are reviewing and drafting a response to RCMA’s three questions provided immediately following the first meeting. Once they have a response the EPA will contact RCMA to discuss
EPA	17/06/2020	Phone & Email	Skye Tuffin (EPA) Andrea Wills (RCMA)	Advice from EPA that a Spring survey is required to confirm the findings of the February survey	RCMA responded with proposed scope of Spring survey
EPA	23/06/2020	Email & Phone	Robert Hughes (EPA) Andrea Wills (RCMA)	Request for meeting to discuss scope of Spring survey	
EPA	24/06/2020	Meeting	Robert Hughes (EPA) Helen Butterworth (EPA) Skye Tuffin (EPA) Andrea Wills (RCMA) Ken Aitken (RCMA)	Discussion on level of survey required to confirm the findings of the February survey	RCMA to liaise with Greg Woodman on another scope and present to EPA
EPA	29/06/2020	Email & Phone	Andrea Wills (RCMA) Skye Tuffin (EPA)	RCMA provided scope for Spring survey	EPA phoned and provided email affirming that the scope was endorsed by EPA
EPA	09/07/2020	Email	Andrea Wills (RCMA) Jaren Hart (DWER)	RCMA submitted formal referral of Cervantes 1 Project	Acknowledgement email receipt of the Cervantes Conventional Oil Exploration Well Project referral Case Management System (CMS) number of CMS17821.

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EPA	01/09/2020	Letter via email	Anthony Sutton (EPA) Skye Tuffin (DWER) Andrea Wills (RCMA) Chris Newport (RCMA)	Request for further information in regard to Cervantes 1 Conventional Well Drilling Proposal: <ul style="list-style-type: none"> Requirement for Spring Survey Details of Fauna observed during February 2020 on-ground survey Scale bars on two flora/vegetation figures in the April Field Report 	
EPA	22/10/2020	Phone	Skye Tuffin (EPA) Andrea Wills (RCMA)	RCMA query on whether EPA expect a resubmission of the Referral, submission of an addendum to the Referral or an explanatory cover letter in response to their request for further information. EPA advised that a cover letter only is required.	Further information including Spring Survey was submitted by RCMA on 22/10/2020.
EPA	28/10/2020	Phone	Andrea Wills (RCMA) Skye Tuffin (EPA)	RCMA enquired whether EPA had received RCMA's 22/10/2020 submission as no receipt response had been received from the EPA Registrar. EPA were having a meeting on this proposal 29/10/2020 and the proposal will then be advertised. EPA were not sure on the period it would take them to make a decision on whether to assess the proposal.	EPA will notify RCMA when the proposal is placed on the EPA website.
EPA	10/11/2020	Phone	Andrea Wills (RCMA) Skye Tuffin (EPA)	RCMA enquiry as to when Cervantes 1 activity will be advertised on the EPA website. EPA advised that advice was being sought from the DBCA. Current progress on that was that the advice was with the Director for sign off. EPA are continuing with review of documents in parallel with this process.	EPA assurance that process is progressing and outcomes were not being delayed.
EPA	20/11/2020	Phone	Andrea Wills (RCMA) Skye Tuffin (EPA)	EPA are still waiting on advice from DBCA which is due back 01/12/2020. EPA then have 28 days to make their decision which they should not need that long. Helen Butterworth will be the new contact as of 23/11/2020. Skye is being seconded into the waste division of DWER.	
EPA	23/11/2020	Email	Andrea Wills (RCMA) Helen Butterworth (EPA) Robert Hughes (EPA) Skye Tuffin (EPA)	RCMA advice of IBSA data package numbers: <ul style="list-style-type: none"> IBSA-2020-0468 IBSA-2020-0469 	Confirmation of receipt was received from Helen Butterworth 23/11/2020.
EPA	02/12/2020	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA enquiry as to status of Cervantes 1 Proposal. EPA advised that DBCA comments have been received and the period for public comment ends 03/12/2020. Once EPA have received those comments, they will write up their decision for assessment for the Minister. EPA do not see the number of comments until the comment period is finished.	Helen will notify RCMA when there is any progress.
EPA	15/12/2020	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA inquired as to number of submissions from the public on the Cervantes 1 proposal. EPA informed RCMA that there were a lot of submissions, in the order of 150. EPA advised that they had received advice from DBCA and now they had reached out to DMIRS for an outline on how they propose to regulate the clearing of native vegetation element of the project given that it is exempt from a clearing permit. EPA want to ensure that there are no appeals on their decision "not to assess".	EPA are to commence working through submissions.
EPA	08/01/2021	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA inquired as to progress of Cervantes 1 referral. EPA have not received a response from DMIRS but are expecting one by 15/01/2021.	EPA to provide decision on level assessment once they receive DMIRS advice.
EPA	19/01/2021	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA inquired as to the nature of the submissions received by the EPA on the Cervantes 1 project. EPA informed RCMA that all submissions were regarding the activity being in the Nature Reserve and that there were objections to "mining" type activities with the potential for large scale developments to be in areas preserved for the conservation of flora and fauna.	EPA to meet with Chairman this week to discuss level of assessment for Cervantes 1 Project.

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				EPA mentioned that they had received the advice they were waiting for from DMIRS and would be having a meeting with the EPA Chairman later this week.	
EPA	22/01/2021	Phone	Ken Aitken (RCMA) Helen Butterworth (EPA)	Discussion in regard to EPA's board meeting where the level of assessment for the Cervantes 1 project was discussed following RCMA leaving a message for Robert Hughes to call RCMA. EPA mentioned that the EPA might assess the project to enable a rehabilitation performance bond to be placed on the project. EPA inquired as to the heritage status of the project and RCMA updated EPA on the recent survey results. EPA advised that they could provide a summary of the public submissions which had been made on RCMA's enquiry.	EPA to notify RCMA of assessment decision beginning of February.
EPA	25/01/2021	Phone	Ken Aitken (RCMA) Robert Hughes (EPA)	Robert Hughes returning RCMA's call. EPA let RCMA know that a number of options had been presented to the board at the meeting for consideration. EPA let RCMA know that the redacted submission letters could all be provided to RCMA for review.	EPA to contact RCMA if they require any further information.
EPA	01/02/2021	Phone	Ken Aitken (RCMA) Helen Butterworth (EPA) Robert Hughes (EPA)	RCMA called EPA in regard to their proposal to voluntarily put up a Rehabilitation Bond. EPA sort advice from Robert Hughes (EPA) who had questions on whether the bond would be enforceable under the DMIRS Environment Plan.	RCMA to provide a letter to EPA advising them of their intent to put in place a rehabilitation bond. Upon receipt of the letter EPA requested that it be readdressed to the Chair or the Executive Director as they are delegates under the Act.
EPA	02/02/2021	Letter	Ken Aitken (RCMA) Registrar (DWER) Helen Butterworth (EPA) Robert Hughes (EPA) Andrea Wills (RCMA)	RCMA's letter to the EPA advising them of their intent to put in place a rehabilitation bond.	
EPA	03/02/2021	Email	Helen Butterworth (EPA) Andrea Wills (RCMA)	EPA requested further information on Heritage aspect of the Cervantes 1 project.	RCMA responded with details of the Heritage Survey Agreement, January Heritage Survey and Heritage commitments noting that the official Heritage Survey Report is expected 12/02/2021. EPA acknowledged receipt of information.
EPA	10/02/2021	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA called EPA for an update on decision to assess timeline. EPA advised that the Chairman was reviewing the recommendation memo this afternoon and making a decision today. The decision will be advertised on Monday 15/02/2021.	EPA will find out if EPA is allowed to call RCMA to disclose decision earlier. RCMA may expect a call Thursday or Friday.
EPA	12/02/2021	Email/Letter & Phone	Helen Butterworth (EPA) Andrea Wills (RCMA)	Email advice that EPA will assess the Cervantes 1 project on referral information. RCMA inquired whether EPA would like a copy of the Rehabilitation Plan for assessment	RCMA sent the Rev 0 of the Rehabilitation Plan (version sent to DBCA) to EPA with comment that the DBCA approved version would be sent once endorsed.
EPA	15/02/2021	Phone	Andrea Wills (RCMA) Helen Butterworth (EPA)	RCMA enquired whether they should send a memo to EPA outlining any management strategies that have been added since the time of the referral. EPA agreed and added that clarification of cleared areas is needed in the memo.	RCMA agreed to prepare a memo. Letter memo was sent to Matthew Tontsd (EPA) 16/02/2021 clarifying information regarding the Cervantes Project: <ul style="list-style-type: none"> • Area of Impact • Management Measures • Heritage • Consultation
EPA	15/02/2021	Phone	Robert Hughes (EPA) Ken Aitken (RCMA)	EPA rang RCMA to discuss the decision to assess the Cervantes project. Items to note included: <ul style="list-style-type: none"> • The EPA had noted that RCMA had offered a Rehab Bond but EPA were still concerned that DMIRS would be unable to legally enforce the JV in regard to that bond whereas EPA have this authority. • DBCA formally wrote to EPA requesting that the proposal be formally assessed • There is significant public interest in the Cervantes Project as it is in Nature Reserve and in the context of increased oil and gas activity in the Northern Perth Basin 	

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EPA	19/02/2021	Phone & Email	Helen Butterworth (EPA) Andrea Wills (RCMA)	EPA notified RCMA that if they wanted to reduce the size of the area of impact for their proposal they would need to put an application for change of proposal under s43A of the EP Act 1986. EPA provided the Procedures Manual for Reference. RCMA discussed the option of leaving the impact area as 5.5ha even though there is no intent to impact more than 4.5ha. As the difference in areas is the initial 12m track reduction to 9m track it is easy to remain within the 4.5ha proposal. EPA advised that this could be done, and EPA would place a 1 ha limit on the clearing of W1 vegetation (PEC) in line with the 4.5 ha proposal.	RCMA advised by email that they would not change their proposal as discussed by phone but will impact no more than 4.5 ha native vegetation (including no more than 1 ha of W1 PEC). EPA acknowledged this and noted that they will continue to assess the proposal and write the draft report. The next milestone being taking the draft report to the EPA meeting. EPA will advise the date and time of the EPA meeting.
EPA	23/02/2021	Email	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA requested polygon .shp files as the previous files provided were line files. RCMA provided the .shp files on 09/03/2021. EPA raised issues with the .shp files on 10/03/2021 where part of a polygon was out side of the original submitted development envelope. EPA provided a map on 15/03/2021 illustrating that the alternative access track was a line file and not a polygon. RCMA provided an updated .shp file and EPA provided an updated map. RCMA updated the .shp file due to vegetation coverage issues on 15/03/2021 and EPA provided an updated map on 16/03/2021. The email contained the footprint however double counted the two access tracks when the tracks are options (either or).	EPA responded by phone and follow up email that RCMA could apply for a S43a change to remove the alternative track otherwise it would remain in the total footprint. RCMA confirmed that they did not wish to apply for a S43a change.
EPA	04/03/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA discussion on contemporary survey of W1 vegetation in the Beekeepers Nature Reserve	RCMA sent the GEMEC report to EPA 05/03/2021
EPA	04/03/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA request for emissions associated with the Cervantes 1 Project including sited preparation and rehabilitation	RCMA responded with an email of 800 t CO ₂ -e 04/03/2021
EPA	05/03/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA request for hydrogeological study associated with the Cervantes 1 Project	RCMA sent the GEMEC report to EPA 05/03/2021
EPA	31/03/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	Discussion on progress of Cervantes 1 assessment.	
EPA	01/04/2021 received 06/04/2021	Letter	Anthony Sutton (EPA) Andrea Wills (RCMA)	EPA's letter to proponent in regard to the Cervantes 1 bond and proposed contingency offsets containing comments from DBCA.	RCMA to provide comments by the 08/04/2021
EPA	12/04/2021	Meeting	Robert Hughes (EPA) Helen Butterworth (EPA) Aidan Walsh (EPA) Ken Aitken (RCMA) Andrea Wills (RCMA)	Meeting to discuss letter to proponent (EPA and DBCA feedback on Cervantes 1 bond conversation).	EPA to send RCMA the DBCA decommissioning and rehabilitation breakdown and offset checklist. EPA sent this following the meeting. RCMA to respond to letter to proponent. RCMA sent an acknowledgement email after the meeting to confirm that they would send their response by the 20/04/2021.
EPA	19/04/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	RCMA rang to enquire about what form the financial security would take in practicality	EPA advised by phone on 20/04/2021 that the financial security would be in the form of a bank deposit held by the DWER Compliance Branch.
EPA	20/04/2021	Letter	Anthony Sutton (EPA) Ken Aitken (RCMA) Helen Butterworth (EPA) Aidan Walsh (EPA) Robert Hughes (EPA) Andrea Wills (RCMA)	RCMA's response to the letter received from EPA on 06/04/2021 addressing questions on bonds and proposed contingency offsets related to the Cervantes 1 project.	
EPA	23/04/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA enquiry as to timing of submission of Rehabilitation Plan.	RCMA are waiting on one figure and will have it to EPA and DBCA early next week.
EPA	28/04/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA enquiry as to whether they can have a figure of the vegetation mapping over the project area.	RCMA promised to modify the monitoring transect figure and provide once available.
EPA	29/04/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA enquired on progress of Rehabilitation Plan and requested the .shp files for the vegetation mapping.	RCMA let EPA know that the Rehabilitation Plan was being compiled for sending and that the .shp files would be sent in an email directly following the Rehabilitation Plan. Both submissions were made by email.

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
EPA	30/04/2021	Phone	Andrea Wills (RCMA) Aidan Walsh (EPA)	RCMA checked with EPA that RCMA's submission of the Rehabilitation Plan met with DBCA's response "It is understood that the plan will be submitted to the Department of Water and Environmental Regulation (DWER) for review and approval; DBCA will provide any further comment on the plan to DWER if required to inform their review." on submission of their revised Rehabilitation Plan.	EPA advised that EPA were the agency at DWER and that they would follow up with DBCA.
EPA	11/05/2021	Email	Andrea Wills (RCMA) Aidan Walsh (EPA)	RCMA provided EPA with research on PEC.	
EPA	31/05/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA called to advise that conditions consultation letter was being signed off today and would be sent through today.	
EPA	02/06/2021	Letter	Anthony Sutton (EPA) Ken Aitken (RCMA) Aidan Walsh (EPA) Andrea Wills (RCMA)	Conditions consult letter sent through with Draft Ministerial Statement.	RCMA confirmed receipt of letter and arranged a meeting with EPA to discuss the conditions in the Ministerial Statement.
EPA	03/06/2021	Meeting	Robert Hughes (EPA) Aidan Walsh (EPA) Andrea Wills (RCMA) Ken Aitken (RCMA)	Meeting was held with EPA to discuss the conditions on the Ministerial Statement.	RCMA submitted comments on the Ministerial Statement following the meeting.
EPA	09/06/2021	Phone	Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA called to advise DBCA had no issues with the Rehabilitation Plan and that RCMA were to submit the revised version addressing the conditions of the draft Ministerial Statement now.	RCMA submitted the Rehabilitation Plan to EPA as well as a track changes version 09/06/2021.
EPA	18/06/2021	Email	Andrea Wills (RCMA) Aidan Walsh (EPA)	RCMA enquired what email address they should place in documents in case a non-compliance requires reporting	EPA responded 18/06/2021 that compliance@dwer.wa.gov.au should be included in the documents.
EPA	22/06/2021	Phone	Andrea Wills (RCMA) Aidan Walsh (EPA)	EPA updated RCMA on progress of Cervantes 1 proposal; the Ministerial Statement is with Anthony Sutton and will be released next week.	
EPA	01/07/2021	Email	Andrea Wills (RCMA) Aidan Walsh (EPA)	RCMA submission of Compliance Assessment Plan and inquiry into Cervantes 1 proposal progress. EPA should have had the report on their website but are having difficulties. The CAP should be sent to compliance@dwer.wa.gov.au but advise sending after the Ministerial Statement is published EPA also advised that the Management Plans go to the EPA at registrar@dwer.wa.gov.au	
EPA	02/07/2021	Email	Robert Hughes (EPA) Ken Aitken (RCMA) Aidan Walsh (EPA) Andrea Wills (RCMA)	EPA advice that the Cervantes 1 report is now published on the EPA website	
EPA	18/07/2021	Email	Andrea Wills (RCMA) registrar@dwer.wa.gov.au Aidan Walsh (EPA) Ken Aitken (RCMA)	Submission of Management Plans: <ul style="list-style-type: none"> Vegetation Management Plan Hygiene Management Plan Fauna Management Plan 	
EPA	22/07/2021	Meeting	Aidan Walsh (EPA) Robert Hughes Ken Aitken (RCMA) Andrea Wills (RCMA)	Discussion on appeals received for the Cervantes 1 project	RCMA to provide a response to the appeals
EPA	14/12/2021	Email	Aidan Walsh (EPA) registrar@dwer.wa.gov.au Andrea Wills (RCMA)	RCMA inquiry as to the status of the Management Plans that were submitted 18/07/2021.	EPA phoned RCMA on 16/012/2021 to let them know that the plans were with DBCA.
EPA	17/12/2021	Email	Ken Aitken (RCMA) Natalie McAlpine (EPA) Aidan Walsh (EPA) Andrea Wills (RCMA)	Introductory email and request for email to discuss Cervantes 1 Management Plans and rehabilitation forward regulatory approval timeline.	EPA responded with a suggested meeting date of 17/01/2021. RCMA responded with a request for an earlier date.

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
EPA	21/01/2022	Letter (email)	Aidan Walsh (EPA) Ken Aitken (RCMA) Andrea Wills (RCMA) Natalie McAlpine (EPA)	EPA request for amendments to Management Plans following EPA and DBCA review.	
Appeals Convenor	19/07/2021	Letter (email)	Zoe Laing (AC) Chris Newport (RCMA) Ken Aitken (RCMA)	Notification of one appeal to the Cervantes 1 proposal and potential for second appeal. AC providing opportunity for RCMA to respond to appeal by 16 th August 2021	AC phoned RCMA to outline that second appeal was a caller to the Minister that did not formally lodge an appeal. AC forwarded on the 20/07/2021 the second appeal to RCMA.
Appeals Convenor	09/08/2021	Letter (email)	Zoe Laing (AC) Ken Aitken (RCMA) Chris Newport (RCMA) Andrea Wills (RCMA)	RCMA submitted their response to the two appeals provided by the AC.	Acknowledgement of receipt of appeals response received from AC
Appeals Convenor	18/08/2021	Meeting	Emma Gaunt (AC) Michael Power (AC) Chris Newport (RCMA) Ken Aitken (RCMA) Andrea Wills (RCMA)	Introductory meeting to run through the process that will be undertaken for the Cervantes 1 proposal and outline a timeframe.	
Appeals Convenor	24/09/2021	Email	Michael Power (AC) Ken Aitken (RCMA) Chris Newport (RCMA) Andrea Wills (RCMA)	Request for the Office of the Appeals Convenor for a copy of the Cervantes 1 Rehabilitation Plan.	RCMA forwarded Version 1 and 2 and the tracked changes version of the Rehabilitation Plan to the AC 27/09/2021.
Appeals Convenor	05/11/2021	Letter (email)	Zoe Laing (AC) Ken Aitken (RCMA) Chris Newport (RCMA)	Advice from AC on Minister for Environment's decision on the Cervantes 1 appeal. Correspondence contained the determination and the Appeal Convenor's report.	
Appeals Convenor	05/11/2021	Letter (email)	Zoe Laing (AC) Ken Aitken (RCMA) Chris Newport (RCMA)	AC seeks advice from RCMA on the implementation conditions for the Cervantes 1 proposal.	RCMA responded 8/11/2021 stating they have reviewed the amendments made to the conditions, agree with the changes and have no further comment.
Appeals Convenor	03/12/2021	Phone	Ken Aitken (RCMA) Emma Gaunt (AC)	RCMA see update on appeal. AC advises that all three ministers have signed off and the project is waiting on overarching Minister signature. Then there will be a period where RCMA can appeal before the project will be officially posted on the EPA website.	
Appeals Convenor	14/12/2021	Letter (email)	Emma Gaunt (AC) Chris Newport (RCMA) Ken Aitken (RCMA)	Letter issuing Ministerial Statement 1178 and notifying RCMA that they have 14 days to appeal the conditions or they can waive the right to appeal. Also accompanied by another email notifying RCMA that the Statement is published on the EPA website with a link provided.	RCMA sent the Appeals Convenor a letter waiving their right to appeal on 14/12/2021. Receipt of this letter was acknowledged by the Appeals Convenor and the final approval letter was issued 14/12/2021. The email informed RCMA that the decision-making authorities have been advised that they may now exercise their powers with respect to the proposal.
DWER	12/11/2020	Email	IBSA Submissions (DWER) Andrea Wills (RCMA)	Submission and acceptance of IBSA data packages <ul style="list-style-type: none"> Cervantes 1 Conventional Well Spring Targeted Survey Cervantes Conventional Well Level 1 Fauna Survey, Reconnaissance and Targeted Flora and Vegetation Survey 	Receipt of IBSA numbers: <ul style="list-style-type: none"> IBSA-2020-0468 IBSA-2020-0469
DWER	04/01/2022	Phone / Email	Jack Elwin (DWER) Andrea Wills (RCMA)	DWER Compliance and Enforcement have reviewed RCMA Compliance Assessment Plan and require amendments to meet the departments requirements.	
Shire of Irwin	31/01/2020	Phone	Andrea Wills (RCMA) Reception (Sol)	Organisation of a meeting to present the Cervantes 1 Proposal to the Shire of Irwin	Email sent with information on project to Brendan Jeans (Sol)
Shire of Irwin	27/02/2020	Phone	Andrea Wills (RCMA) Brendan Jeans (Sol)	Proposed window for meeting date General discussion on oil and gas industry in Shire of Irwin including MEL personnel experience in Perth Basin	BJ to get back to MEL with proposed date and any additional information to be presented at meeting by MEL
Shire of Irwin	13/11/2020	Phone & Email	Andrea Wills (RCMA) Brendan Jeans (Sol)	Organisation of meeting for the 19/11/2020 1pm	Change of meeting time to 10am
Shire of Irwin	19/11/2020	Meeting	Andrea Wills (RCMA) Peter Traylen (Sol) Mark Teale (Sol) Ken Aitken (RCMA) Mark Jenkins (RCMA) Paul Bird (Metgasco)	Discussion of general activities in the Shire of Irwin and the Cervantes 1 Proposal.	RCMA to provide a summary document outlining the Cervantes 1 proposal for the Shire CEO Shane Ivers. This was emailed through 23/11/2020.

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
Shire of Irwin	30/11/2020	Phone & Email	Andrea Wills (RCMA) Brendan Jeans (Sol)	Discussion of DoA and Sewage for workers accommodation on rig site. If there is to be sleepers (not just office and ablutions) at rig site then a DoA and Bushfire Management Plan will be required. See the Department of Planning website and a bushfire consultant for further information. Main requirements will be potable water and firebreaks.	Brendan to check with the EHO on whether there are any approval requirements for self contained storage of effluent to be disposed offsite.
Shire of Irwin	11/12/2021	Phone	Andrea Wills (RCMA) Brendan Jeans (Sol)	Discussion of the adequacy of a Bushfire Management Statement to meet the requirements for the DoA application. Consensus was that it depended on what was covered in the BMS and that Chadwick Barron (Bushfire Consultant proposing the BMS) would need to get in contact with the Sol.	Andrea Wills to get Chadwick Barron to contact Sol in regard to the BMS.
Shire of Irwin	07/01/2021	Phone	Andrea Wills (RCMA) Brendan Jeans (Sol)	Confirmation that based on the emails with Chadwick Barron (BMS), the Shire is confident with the Bushfire Management Statement Approach to be provided by BBS. RCMA are free to use either consultant (Bushfire Planning Australia or BBS) for their submission. RCMA will most likely go with BBS due to their experience with drilling proposals.	RCMA to provide submission for Sol assessment.
Shire of Irwin	08/01/2021	Phone	Andrea Wills (RCMA) Mark Teal (Sol)	RCMA inquiry as to upcoming week and potential fire bans. The current week has been horrific but next week the weather pattern is from the south so less likely to have vehicle movement bans. RCMA to contact Sol Monday to get an update on situation.	RCMA phoned Sol 11/01/2021 and the weather still looks good. RCMA to check phone app in morning before commencing survey.
Shire of Irwin	07/10/2021	Email	Mark Jenkins (Aztech) Brendan Jeans (Sol)	RCMA submission of Temporary Camp DA.	Sol responded with a query on 13/01/2022 in regard to the owner of the property for the location of the temporary camp. The owner has to be as per the planning regulations and not as per the petroleum licence as was advised by DBCA.
Arc Infrastructure	03/12/2019	Phone	Garry Bird (Arc Geraldton) Andrea Wills (RCMA)	MEL to drill adjacent to Arc Infrastructure near Dongara-Eneabba Railway Line	Garry to forward details on to state government party responsible for consulting with industry such as Western Power etc
Arc Infrastructure	03/12/2019	Phone	Karen van der Merwe (Arc) Andrea Wills (RCMA)	MEL to provide some preliminary info on activity in the aim to set up a meeting	ASW forwarded information pack via email to thirdparty.services@arcinfra.com on 04/12/2019
Arc Infrastructure	16/12/2019	Phone	Karen van der Merwe (Arc) Andrea Wills (RCMA)	MEL information pack has not been received by Arc. ASW to resend	KVDM confirmed receipt of resent information pack
Arc Infrastructure	20/12/2019	Email	Jason Crowden (Arc) Andrea Wills (RCMA)	Jason suggested a meeting time after 06/01/2020	Meeting arranged for 10/01/2020
Arc Infrastructure	10/01/2020	Meeting	Jason Crowden (Arc) Cameron (Arc) Ken Aitken (RCMA) Andrea Wills (RCMA)	MEL introduction of project and discussion of information required to determine constraints on railway. MEL provided approximate railway crossing coordinates	Email confirmation of outcomes: <ul style="list-style-type: none"> Arc to provide MEL with the width of the railway easement and the restrictions on the use of the railway crossing. MEL are then to provide layouts showing proposed impacts under varying scenarios (construction, development, rehab)
Arc Infrastructure	27/02/2020	Email	Jason Crowden (Arc) Andrea Wills (RCMA)	Arc provided width of railway easement and advised that the crossing is a private crossing	Arc to provide further details on the private crossing. MEL to provide project layouts to Arc.
Arc Infrastructure	15/04/2020	Email	Jason Crowden (Arc) Andrea Wills (RCMA)	MEL provided layouts covering project scenarios from site preparation through to rehabilitation	Meeting to follow
Arc Infrastructure	02/06/2020	Meeting	Jason Crowden (Arc) Ken Aitken (RCMA) Andrea Wills (RCMA)	Discussion on Arc internal questions on RCMA's proposal	Arc to send through queries for RCMA to respond to. Arc approval anticipated in 4 weeks.
Arc Infrastructure	15/06/2020	Phone	Jason Crowden (Arc) Andrea Wills (RCMA)	Enquiry as to status of Arc internal queries to be sent through to RCMA	Queries still being compiled and will be sent through once final submission has been provided to JC
Arc Infrastructure	01/07/2020	Email	Jason Crowden (Arc) Andrea Wills (RCMA)	RCMA enquiry as to progress of Cervantes 1 proposal since 02/06/2020 meeting.	Arc notified RCMA on 02//07/2020 that they will provide further updates ASAP – by 06/07/2020.
Arc Infrastructure	03/08/2020	Phone Email	Sudip Saha (Arc) Andrea Wills (RCMA)	RCMA enquired on the status of the Cervantes 1 proposal in the absence of Jason Crowden. Sudip was unaware of the project despite being Jason's Manager. Sudip requested details of the project and all correspondence which had taken place with Jason to be emailed through.	An email with a proposal summary and correspondence details was provided to Sudip Saha 03/08/2020.

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
Arc Infrastructure	06/08/2020	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Notice from Arc Infrastructure that they will be unable to licence RCMA's use of the railway corridor.	RCMA request a suitable contact name at the PTA.
Arc Infrastructure	07/08/2020	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Arc let RCMA know that they can contact Shelly Brindal (Corridor and Heritage Coordinator) at PTA.	RCMA request a time to meet with Arc to discuss the issues with access to the railway corridor.
Arc Infrastructure	11/08/2020	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Arc notify in the morning that RCMA that they are reviewing their decision again internally. Late in the day they reiterate their previous decision not to licence RCMA's use of the railway corridor.	
Arc Infrastructure	17/08/2020	Email	Ken Aitken (RCMA) Sudip Saha (Arc) Hannah Mackey (Arc) Andrea Wills (RCMA)	Email from Ken introducing himself and requesting a meeting to: <ul style="list-style-type: none"> Clarify the scope of work to drill the 23 day Cervantes-1 exploration well (planned for late Q1 CY2021) Clearly articulate why we believe this project has extremely low risk to your track infrastructure, and why we believe this project has the potential to be a win/win for both our organisations 	
Arc Infrastructure	26/08/2020	Meeting Email	Ken Aitken (RCMA) Sudip Saha (Arc) Hannah Mackey (Arc) Andrea Wills (RCMA)	RCMA provided a project overview, timeline, summary of stakeholder engagement, discussion of risks and mitigation and project potential during a meeting with Arc. Arc raised their concerns in regard to the potential for a new contract to initiate during RCMA's use of the railway corridor.	Outcomes of the meeting as per RCMA email 26/08/2020: <ul style="list-style-type: none"> RCMA will arrange a meeting with the PTA to present the slides from today Arc will follow up with their executive RCMA will revert with feedback from the meeting with PTA Arc will advise on the private owner of the railway crossing
Arc Infrastructure	27/08/2020	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Clarification of railway corridor tenure between Arc and RCMA.	
Arc Infrastructure	02/09/2020	Email	Hannah Mackey (Arc) Ken Aitken (RCMA) Andrea Wills (RCMA) Sudip Saha (Arc)	Notification of approval from Arc for RCMA to use the rail corridor subject to conditions.	RCMA requested a meeting to discuss the conditions by email on 03/09/2020.
Arc Infrastructure	07/09/2020	Meeting	Hannah Mackey (Arc) Ken Aitken (RCMA) Andrea Wills (RCMA) Sudip Saha (Arc)	Meeting to discuss licence conditions on RCMA corridor access agreement.	RCMA sent through a follow up email on the 07/09/2020 summarising the actions for all parties to follow up. RCMA sent through the items assigned to RCMA on the 07/09/2020 by email and Dropbox.
Arc Infrastructure	10/09/2020	Email Phone	Hannah Mackey (Arc) Andrea Wills (RCMA)	Hannah was initially unable to download the files Andrea sent through for the Arc Environment Team however the Arc Environment Team managed to download the files. Hannah is working on the draft contract but waiting for the details of trucks and access track construction from RCMA.	Andrea to follow up details of trucks and access track construction.
Arc Infrastructure	07/10/2020 - 08/10/2020	Emails	Hannah Mackey (Arc) Helen Ainsworth (Arc) Andrea Wills (RCMA)	Email requests clarifying details for contacts and addresses for licences and agreements	RCMA provided requested information
Arc Infrastructure	09/10/2020	Email	Hannah Mackey (Arc) Andrea Wills (RCMA) Ken Aitken (RCMA)	Arc forwarded draft Licence to Use and Occupy Corridor	LTU under review by RCMA
Arc Infrastructure	13/10/2020	Email	Helen Ainsworth (Arc) Chris Newport (RCMA) Andrea Wills (RCMA)	Arc forwarded an Early Engagement Agreement (EEA) (agreement for reimbursement of Arc services).	EEA under review by RCMA
Arc Infrastructure	15/10/2020	Email	Andrea Wills (RCMA) Hannah Mackey (Arc)	RCMA forwarded details of the proposed track construction to RCMA.	Arc acknowledged receipt and advised that the information had been passed on to the Third Party Projects Team.
Arc Infrastructure	02/11/2020	Email	Ken Aitken (RCMA) Hannah Mackey (Arc) Andrea Wills (RCMA)	RCMA provided a copy of the Licence to Use marked with RCMA's feedback	Arc sent through an email acknowledgement of receipt.
Arc Infrastructure	02/11/2020	Email	Ken Aitken (RCMA) Helen Ainsworth (Arc) Hannah Mackey (Arc) Andrea Wills (RCMA)	RCMA provided a copy of the Early Engagement Agreement marked with RCMA's feedback	
Arc Infrastructure	12/11/2020	Email	Ken Aitken (RCMA) Hannah Mackey (Arc) Andrea Wills (RCMA)	RCMA offered to hold a VC to assist in going through the documents.	Arc responded 13/11/2020 that they would have responses back shortly.

Stakeholder	Date	Type of Consultation	People Involved	Summary of Discussions	Outcomes of Consultation
Arc Infrastructure	20/11/2020	Email	Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Andrea Wills (RCMA) Hannah Mackey (Arc) Helen Ainsworth (Arc)	RCMA provided a response to RCMA's requested contract departures.	RCMA to respond.
Arc Infrastructure	20/11/2020	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Hannah Mackey (Arc) Helen Ainsworth (Arc)	RCMA provided final feedback on Arc's Licence to Use and Early Engagement Agreement. RCMA extended an invitation to Arc to participate in a meeting / zoom teleconference to accelerate final alignment and contract execution.	Arc to advise a suitable time to meet.
Arc Infrastructure	09/12/2020	Phone and Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA called to follow up on offer of meeting to discuss responses on departures. Arc relayed that they would have responses by the end of the week. The follow up email contained copies of the standard deed of indemnity for construction works and a construction licence template.	Arc to provide responses to RCMA contract departures by the end of the week. RCMA to review the terms of the documents provided.
Arc Infrastructure	10/12/2020	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Hannah Mackey (Arc) Helen Ainsworth (Arc)	Arc provided responses to RCMA's departures on the Licence to Use and EEA. Arc proposed Tuesday or Wednesday for a meeting time.	RCMA responded by email that all the responses look good and that RCMA look forward to receiving Schedule 2 Table 1 of the EEA before a meeting on Tuesday at a time suitable to Arc. Arc responded with a request for further information on the works that were proposed on the rail crossing before Table 1 could be populated. RCMA to follow up.
Arc Infrastructure	15/12/2020	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	Arc offered to provide the marked up documents for RCMA to review and finalise. Arc provided times available for meeting.	RCMA followed up with a phone call 15/12/2020 to delay the meeting until after RCMA had provided the information for Table 1 and it had been populated by Arc. This was followed up with a confirmatory email that included a request to finalise the Licence to Use now.
Arc Infrastructure	10/12/2020	Email	Andrea Wills (RCMA) Helen Ainsworth (Arc) Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Stella Seo (Arc) Hannah Mackey (Arc)	RCMA provided a description of the upgrade works to be undertaken at the railway crossing along with photos.	Arc to populate EEA Schedule 2 Table 1 before a meeting with RCMA.
Arc Infrastructure	16/12/2020	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	Arc forwards updated (tracked) versions of the EEA and Licence to Use, noting that a licensed area plan will be added to the Licence to Use as part of EEA costs.	RCMA inquired on the 22/12/2020 whether the existing plan was satisfactory for the purpose. Arc responded that a new layout is required as Arc would like details in a specific format on the layout.
Arc Infrastructure	22/12/2020	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Hannah Mackey (Arc) Helen Ainsworth (Arc)	RCMA provided details of their review of the Deed of Indemnity (Construction Works) and proposed amendments.	
Arc Infrastructure	06/01/2021	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc) Ken Aitken (RCMA) Hannah Mackey (Arc) Helen Ainsworth (Arc)	RCMA provided their review of the Construction Licence marked up directly into the licence and cross referenced in the schedule of departures.	
Arc Infrastructure	15/01/2021	Email	Helen Ainsworth (Arc) Andrea Wills (RCMA)	Arc inquiry as to RCMA's Cervantes 1 project environmental status internally within Arc. Also request for any clearing permits.	RCMA advised by email 15/01/2021 that all documents (including environmental) have been provided to the Arc legal team with no feedback on the Arc internal processes. Separately RCMA advised that the Cervantes 1 activity was exempt from the requirements of a clearing permit.
Arc Infrastructure	14/01/2021	Phone / Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA enquired as to the status of the EEA. Arc is finalising the cost estimate prior to sending through.	Email sent by Arc with lump sum cost estimate however itemised list of deliverables has been removed.
Arc Infrastructure	15/01/2021	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA requested a list of deliverables in the scope of services.	Arc sent a revised EEA with a list of tasks to be conducted under the EEA.
Arc Infrastructure	21/01/2021	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA request to make it clear that third party costs are part of the lump sum estimate in the EEA.	Arc provided updated EEA.
Arc Infrastructure	22/01/2021	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA provided signed EEA to Arc.	Arc provided fully executed EEA to RCMA.

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Arc Infrastructure	03/02/2021	Email	Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	RCMA provided a copy of the Railway Reserve Site Preparation Plan and Vegetation Management Plan.	Arc acknowledge receipt and intent to send to the third party projects team.
Arc Infrastructure	10/02/2021	Phone	Andrea Wills (RCMA) Sarah Fitzgerald (Arc) Helen Ainsworth (Arc)	RCMA contacted Sarah to find out the contact at Third Party Services. Sarah provided Helen Ainsworth's details. RCMA contacted Helen to check that she had all documents she required to undertake design review. Helen advised that she was waiting for legal to complete their work before they commenced any activities. RCMA contacted Sarah who advised that legal had completed all their work.	Arc Legal to advise Third Party Services that all Legal work is complete and Third Party Services can commence design review.
Arc Infrastructure	10/02/2021	Email	Helen Ainsworth (Arc) Andrea Wills (RCMA)	Arc requested RCMA Safety Management Plan. RCMA sent through Cervantes 1 Civils Safety Management Plan [RCMA-02-SAF-PLN-002v0].	Arc acknowledged receipt of SMP and notified RCMA that Arc will get the construction licence completed.
Arc Infrastructure	25/02/2021	Email	Helen Ainsworth (Arc) Andrea Wills (RCMA) Sarah Fitzgerald (Arc)	Arc sent through the Construction Licence. RCMA reviewed the Licence and sent through the updated Schedule of Departures. Sarah Fitzgerald (Arc) responded with a marked up Schedule of Departures.	Arc provided responses to the requested departures on 04/03/2021 and again to RCMA's response (18/3/2021) on 18/03/2021. RCMA agreed to final changes 26/03/2021.
Arc Infrastructure	31/03/2021	Email	Sarah Fitzgerald (Arc) Andrea Wills (RCMA)	Arc forwarded the Construction Licence for Execution which RCMA signed and returned.	Arc provided the fully executed Construction Licence 24/05/2021.
Arc Infrastructure	15/09/2021	Email	Helen Ainsworth (Arc) Andrea Wills (RCMA)	Arc enquiry as to whether RCMA had commenced works in the railway easement. RCMA advised that they were still waiting on the EPA and would contact Arc when they had an anticipated construction date.	RCMA to contact Arc with estimated construction date.
Arc Infrastructure	16/09/2021	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Arc enquiry as to whether there were any outstanding issues on the Licence to Use. RCMA followed up with the departures previously provided. Arc responded 23/09/2021 and forwarded the Licence to Use for execution 19/11/2021.	RCMA to execute the Licence to Use.
Arc Infrastructure	23/09/2021	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	RCMA follow up with Arc on whether the Deed of Indemnity is outstanding. Arc provided the Deed for execution 12/10/2021. RCMA provided executed version 12/10/2021.	Arc provided fully executed version of document 14/10/2021.
Arc Infrastructure	27/10/2021	Email	Hannah Mackey (Arc) Andrea Wills (RCMA)	Arc query on track widening for final checks on Licence to Use. Licence to Use was provided for execution 19/11/2021. RCMA provided executed version to Arc 03/12/2021.	Arc provided fully executed version of document 13/12/2021.
Public Transport Authority	12/08/2020	Phone	Shelley Brindal (PTA) Andrea Wills (RCMA)	RCMA contacted PTA in regard to Arc refusal to licence RCMA's use of the railway corridor. Shelley requested further information on the project noting that PTA generally follow Arc's decisions.	RCMA to email PTA a summary of the Cervantes 1 Project in regard to the railway corridor usage.
Public Transport Authority	18/08/2020	Email	Shelley Brindal (PTA) Andrea Wills (RCMA) Ken Aitken (RCMA)	RCMA forwarded a summary of the Cervantes 1 Project in regard to the railway corridor usage.	RCMA followed the email up with a phone call on the 19/08/2020 which PTA acknowledged by email.
Public Transport Authority	26/08/2020	Phone	Shelley Brindal (PTA) Andrea Wills (RCMA)	Conversation where RCMA informed PTA of Arc meeting outcomes. PTA proposed to review documents provided by RCMA and contact Arc.	PTA to contact Arc with relevant clauses for an access agreement with RCMA.
Public Transport Authority	27/08/2020	Email	Shelley Brindal (PTA) Andrea Wills (RCMA) Ken Aitken (RCMA)	Notification that PTA has made recommendations for options in terms of clauses to counteract their arguments for not allowing its use.	Shelley to contact RCMA when there is an update.
Public Transport Authority	03/09/2020	Phone	Andrea Wills (RCMA) Shelley Brindal (PTA)	Discussion in regard to Arc's reversal of decision to allow access to railway corridor. Discussion centred on condition allowing Arc to revoke licence mid activity. Shelley advised that PTA would place same condition on access agreement and RCMA should tread carefully if going back to Arc on this condition. Suggestion to talk to Arc about the notice period associated with this clause.	
MEPAU	06/01/2020	Phone	Steve McCracken (MEPAU) Andrea Wills (RCMA)	MEL requested access to vegetation communities mapping conducted by ARC Energy across the Cervantes 1 Proposal Area	ASW provided an email with MEL's official request.
MEPAU	16/01/2020	Email	Steve McCracken (MEPAU) Andrea Wills (RCMA)	MEPAU permit MEL to access the Denison 3D ARC GIS files as requested 06/01/2020	SMc would like to discuss north Perth basin generally with Ken Aitken. ASW passed on Steve's details to Ken.

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MEPAU	23/01/2020	Email	Ken Aitken (RCMA) Steve McCracken (MEPAU)	Organisation for a meeting to discuss North Perth Basin	Meeting organised and held. Personnel continue to meet on a social basis unrelated to the Cervantes 1 project.
DBCA	06/01/2020	Phone	Murray Baker (DBCA) Andrea Wills (RCMA)	Andrea briefed Murray on the Cervantes 1 Proposal to provide enough information for a meeting with appropriate DBCA personnel.	Murray is to get back to Andrea with possible meeting times. Andrea is to prepare material on: <ul style="list-style-type: none"> Who is Metgasco / RCMA? Proposal background including access routes Management measures to be implemented
DBCA	15/01/2020	Meeting	Murray Baker (DBCA) Cass Gray (DBCA) Alanna Channa (DBCA)(phone) Ken Aitken (RCMA) Andrea Wills (RCMA)	Briefing on Cervantes 1 Proposal	RCMA to determine portion of access track in reserve vs railway easement RCMA to submit management strategies / management plans to DBCA prior to 15A referral: <ul style="list-style-type: none"> Fire Vegetation Hygiene (Weed & Dieback) Fauna Access & Communications Protocol
DBCA	04/02/2020	Phone	Murray Baker (DBCA) Andrea Wills (RCMA)	DBCA Jurien Bay Feedback on Cervantes 1 Proposal: <ul style="list-style-type: none"> There is a known PEC in that area (as was discussed in the meeting) What is the fate of the marl on completion of the project? MEL anticipate removal for Wellpad however access tracks are dependent on DBCA desired long-term track requirements What fill type will MEL be using? Limestone Marl 	DBCA to follow up: <ul style="list-style-type: none"> DBCA marl testing / interpretation requirements Feedback MEL comms to Jurien Bay
DBCA	06/02/2020	Phone	Murray Baker (DBCA) Andrea Wills (RCMA)	DBCA follow up from previous conversation: <ul style="list-style-type: none"> At this stage MEL proposal for Marl is adequate and should be documented in their Hygiene Management Plan DBCA will need to consider decommissioning requirements 	MEL to put together a proposal on decommissioning for DBCA to comment and amend.
DBCA	30/04/2020	Email	Murray Baker (DBCA) Andrea Wills (RCMA)	RCMA provided DBCA with supporting documents for DBCA review and endorsement	Confirmation of receipt email provided Cassanna Gray (DBCA) also requested the "Description of the Activity" from the EP
DBCA	01/05/2020	Email	Cassanna Gray (DBCA) Andrea Wills (RCMA)	DBCA request for Description of Activities	Section 1 and 2 of the Cervantes 1 EP provided to DBCA by RCMA
DBCA	04/06/2020	Phone	Cassanna Gray (DBCA) Andrea Wills (RCMA)	Update on progress of DBCA document review	
DBCA	23/06/2020	Phone	Murray Baker (DBCA) Andrea Wills (RCMA)	Update on progress of DBCA document review	
DBCA	30/06/2020	Email and Phone	Cassanna Gray (DBCA) Andrea Wills (RCMA)	DBCA notification that the Environmental Management Branch is going to present the Cervantes 1 proposal to the Conservation and Parks Commission (CPC). DBCA requested .shp files of the project area.	RCMA provide .shp files to DBCA and requested to see the information that was being presented to CPC
DBCA	07/07/2020	Email	Murray Baker (DBCA) Andrea Wills (RCMA)	DBCA provided advice on the supporting documents submitted by RCMA for DBCA review and endorsement. Recommendations centred around dieback and rehabilitation management.	RCMA will address DBCA's comments and recommendations and provide a response.
DBCA	21/07/2020	Email	Andrea Wills (RCMA) Murray Baker (DBCA)	RCMA request for discussion with DBCA on follow-up to each of DBCA's recommendations.	
DBCA	27/07/2020	Email Phone	Andrea Wills (RCMA) Murray Baker (DBCA) Cassanna Gray (DBCA)	RCMA Response to DBCA Section 15A Recommendations including desktop and field flora and fauna surveys.	
DBCA	31/08/2020	Phone	Cassanna Gray (DBCA) Andrea Wills (RCMA)	Discussion was held in regard to rehabilitation plan requirements and when the updates to the hygiene management plan will be completed with reference to the timing for the September Conservation Commission Meeting.	Andrea to contact Glevan to determine hygiene management plan timeframe.
DBCA	08/09/2020	Email	Andrea Wills (RCMA) Cassanna Gray (DBCA) Michelle Corbellini (DBCA)	Submission of the updated hygiene management plan and updated RCMA response to DBCA recommendations. Notes include that	The Rehabilitation excerpt containing rehabilitation timeframes was provided by email on the 09/09/2020.

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			Ken Aitken (RCMA)	DBCA is to provide dates for September marl pit visit and RCMA to provide rehabilitation timeframes once signed off next week.	
DBCA	14/09/2020	Phone Email	Cassyanna Gray (DBCA) Andrea Wills (RCMA)	Discussion on Conservation Commission submission deadline of 05/10/2020 and requirement for updated Environment Plan by that date. Also discussed either 22 nd or 23 rd September for marl pit visit. Alanna Chant to attend.	Confirmation email of Alanna Chant attendance at marl pit visit received 14/09/2020. Andrea emailed Alanna to confirm 22/09/2020 meeting at 11:30am at the corner of Mt Adams Rd and Brand Hwy.
DBCA	22/09/2020	Site Visit	Evan Brown (Glevan Consulting / RCMA) Allan Lenane (RCMA) Steve Buitenhuis (DBCA) Alanna Chant (DBCA)	Site visit to proposed marl pit and two site where marl from that pit has been utilised in past 18 months to interpret sites for dieback.	Glevan took samples on location. DBCA made observations to provide advice to the Environmental Management Branch.
DBCA	02/10/2020	Email	Cassyanna Gray (DBCA) Andrea Wills (RCMA) Alanna Chant (DBCA) Steve Buitenhuis (DBCA) Michelle Corbellini (DBCA)	DBCA Environmental Management Branch provided advice on hygiene management for the Cervantes 1 project following the DBCA site visit. Existing commitments are made more specific.	RCMA updated the Hygiene Management and Environment Plan with specific commitments outlined in DBCA's advice.
DBCA	07/10/2020	Email	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA forwarded the latest revision of the Environment Plan and Weed and Dieback Hygiene Management Plan to DBCA for submission to the Conservation Commission. A note was provided that the Glevan report and Woodman report will be forwarded once available.	DBCA confirmed receipt of the documents.
DBCA	19/10/2020	Email	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA sent DBCA the Glevan Marl Pit Interpretation Report	
DBCA	23/10/2020	Phone	Cassyanna Gray (DBCA) Andrea Wills (RCMA)	DBCA called to say that all documents had been received and were with the Conservation Commission who were sitting 23/10/2020. DBCA requested a copy of the updated HMP (with the marl pit report incorporated) and the initial Rehabilitation Plan referred to in the EP. RCMA also advised that the Spring Survey Report was available and would send it through with the other documents.	RCMA to provide documents to DBCA: <ul style="list-style-type: none"> • Spring Survey • Rehabilitation Plan • Hygiene Management Plan
DBCA	30/10/2020 & 10/11/2020	Email	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA provided promised documents to DBCA: <ul style="list-style-type: none"> • Spring Survey • Rehabilitation Plan • Hygiene Management Plan 	DBCA responded via email 11/11/2020 confirming receipt of documents
DBCA	13/11/2020	Email and Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA and DBCA discussed Section 15A process and how the Section 15A Referral will now come through as RCMA have lodged a well application (not just an EP). DBCA outlined that the process of providing advice to the Minister was nearly complete only waiting on the outcome of the Conservation Commission. DBCA enquired about the EPA Referral and were not aware that the DBCA Director had been asked for advice by the EPA. DBCA mentioned that they would follow up the progress of this.	DBCA to follow up progress of EPA request for advice on Section 38 Referral
DBCA	17/11/2020	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA and DBCA discussed rehabilitation planning in light of DMIRS new requests. DBCA have not reviewed the Rehabilitation Plan yet and could not comment on whether they require further detail. RCMA enquired about the monitoring bore which is in our EP. DBCA were not sure if a separate CALM application was required from the petroleum drilling CALM application.	DBCA to review Rehabilitation Plan DBCA to check CALM application covers all aspects of EP (including monitoring bore)
DBCA	30/11/2020	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	Conservation Commission has further queries on Fire Response Preparedness. RCMA to provide details. DBCA are preparing a submission to EPA by 01/12/2020. DBCA have not had an opportunity to review RCMA's Rehabilitation Plan as yet.	RCMA to provide information on Fire Response Preparedness. Email memo sent to DBCA 30/11/2020.
DBCA	14/01/2021	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA and DBCA discussed the status of the rehabilitation plan and RCMA's intent to further develop the plan in line with DMIRS requests. DBCA are satisfied with the current intended completion	RCMA to provide DBCA with Rehabilitation Plan in next two weeks.

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				criteria and would like to see the further development include specific targets.	
DBCA	20/01/2021	Phone and email	Cassyanna Gray (DBCA) Andrea Wills (RCMA)	DBCA request for a summary memo on well testing to address suitable timing, surveillance, and planned response to ignitions in relation to fire management during well testing, as well as soil/groundwater contamination management and monitoring measures.	RCMA provided the memo 21/01/2021.
DBCA	03/02/2021	Email	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA forwarded the updated Cervantes 1 Rehabilitation Plan [Rev 0] to DBCA for review and approval.	DBCA confirmed receipt of the Rehabilitation Plan.
DBCA	09/02/2021	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA following up DBCA on Rehabilitation Plan Review. EMB currently waiting on comments from the region.	DBCA to provide comments on Rehabilitation Plan
DBCA	24/02/2021	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA and DBCA catching up on progress since last conversation. Now that project will be assessed by the EPA, DBCA has received a submission request from the EPA. DBCA will be briefing the Conservation Commission although they may not have time to present at a meeting. DBCA have received comments from the Region on the Rehabilitation Plan and will provide feedback soon. EPA have notified DBCA that RCMA have proposed an \$100,000 Rehabilitation Bond. The basis of this bond is the cost of remediation if the site does not achieve its completion criteria.	DBCA to provide comments on Rehabilitation Plan
DBCA	15/03/2021	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	DBCA personnel have been away on sick leave. DBCA promise to have the Rehabilitation Plan back to RCMA by 16/03/2021.	DBCA to send Rehabilitation Plan to RCMA.
DBCA	16/03/2021	Email	Cassyanna Gray (DBCA) Andrea Wills (RCMA)	DBCA provided a table of comments to RCMA on the Rehabilitation Plan.	RCMA to address comments in a revised Rehabilitation Plan
DBCA	29/04/2021	Email	Andrea Wills (RCMA) Cassyanna Gray (DBCA) Michelle Corbellini (DBCA) Alanna Chant (DBCA) Laura Burns (DMIRS) Aidan Walsh (EPA) Ken Aitken (RCMA) Charlotte Patrick (DBCA) Murray Baker (DBCA)	RCMA provided a revised Rehabilitation Plan to DBCA and EPA.	DBCA advised that “It is understood the plan will be submitted to the Department of Water and Environmental Regulation (DWER) for review and approval; DBCA will provide any further comment on the plan to DWER if required to inform their review.” RCMA clarified with EPA that the RCMA submission to EPA met DBCA’s expectation 09/06/2021.
DBCA	15/11/2021	Phone	Andrea Wills (RCMA) Cassyanna Gray (DBCA)	RCMA enquired as to who they needed to put down as the landowner on their development application with the Shire of Irwin for the temporary buildings on the drill site. DBCA advised that in the first instance RCMA should put down RCMA as the Petroleum Licence holder.	RCMA to submit the DA as the “landowner”.
DBCA	16/12/2021	Phone / Email	Andrea Wills (RCMA) Charlotte Patrick (DBCA) Cassyanna Grey (DBCA) Murray Baker (DBCA)	RCMA request that DBCA phone RCMA to update RCMA on status of DBCA’s advice to EPA on the Cervantes 1 Management Plans.	Murray Baker called RCMA 16/12/2021 and advised that the EPA had only sent them the MPs 16/12/2021. They also had not sent through the Rehabilitation Plan. RCMA to provide a copy of the Rehabilitation Plan to DBCA.
DBCA	17/12/2021	Phone	Ken Aitken (RCMA) Murray Baker (DBCA)	RCMA inquiry as to timing of DBCA’s provision of advice to EPA. DBCA advised that the advice would be provided prior to the due date of 19/01/2022. It was noted that DBCA had only received three MPs and were missing the Rehabilitation Plan.	RCMA forwarded the Rehabilitation Plan to DBCA and EPA 17/12/2021. This document had previously been provided to both parties (29/04/2021 and 09/06/2021).
Other Perth Basin Petroleum Operators	Nov 2019 to Jan 2020	Meetings and Phone Calls	Various	Discussing availability of onshore drilling rigs planned to be in the Perth Basin in 2nd half of 2020. Collaboration/negotiation to secure well slot on a rig for Cervantes	Understand two rigs technically capable of drilling Cervantes will be mobilized to Perth Basin. Another smaller rig currently based in WA may also be available
YMAC	18/03/2020	Phone	Callum Forsey (YMAC) Andrea Wills (RCMA)	Potential for heritage sites in Cervantes 1 Project Area and arrangements required to be made for on ground heritage assessment	RCMA to send email to YMAC outlining project footprint so that YMAC can provide details of steps to be taken

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YMAC	23/03/2020	Email	Callum Forsey (YMAC) Andrea Wills (RCMA) Glenn Archer (YMAC)	YMAC follow up email from phone call to provide details of YMAC lawyer for Southern Yamatji matters who will assist with progressing a survey agreement Provision of Survey Request Form	RCMA completed and returned the Survey Request Form and left messages with Glenn Archer to discuss the survey agreement
YMAC	02/06/2020	Email	Ebony Paskov (YMAC) Andrea Wills (RCMA)	Contact regarding draft agreement for on ground heritage survey prior to ground disturbing activities	Will phone 03/06/2020 AW forwarded draft information pack previously provided to Callum Forsey
YMAC	03/06/2020	Email	Ebony Paskov (YMAC) Andrea Wills (RCMA)	Advice that if a Petroleum Exploration and Heritage Protection Agreement was not in place then one would need to be drafted.	Follow-up phone call where EP agreed that she would draft the agreement and get back to AW by 05/06/2020
YMAC	16/06/2020	Email	Ebony Paskov (YMAC) Andrea Wills (RCMA)	Update from YMAC that the draft heritage agreement is being reviewed by the YMAC Heritage Unit	YMAC requested clarification on which party the agreement was with. RCMA confirmed that the agreement was with RCMA Australia.
YMAC	07/07/2020	Email	Ebony Paskov (YMAC) Andrea Wills (RCMA)	Notice from YMAC that the agreement is progressing and will be presented to the Southern Yamatji Working Group on 14/07/2020 and the agreement will be sent to RCMA on the 15/07/2020.	The SYA Petroleum Exploration and Heritage Protection Agreement was emailed to Andrea Wills 15/07/2020.
YMAC	03/08/2020	Meeting Letter	Ebony Paskov (YMAC) Jeremy Brown (YMAC) Ken Aitken (RCMA) Andrea Wills (RCMA)	Meeting held to discuss RCMA concerns regarding the standard agreement that has been provided to RCMA. YMAC stated that "The Southern Yamatji recognise that RCMA want something from them so they want something in return".	YMAC agreed to review the agreement in light of RCMA's concerns and get back to RCMA.
YMAC	10/08/2020	Email	Ebony Paskov (YMAC) Ken Aitken (RCMA) Jeremy Brown (YMAC) Andrea Wills (RCMA)	YMAC send through a revised SYA Petroleum Exploration Heritage Agreement inviting RCMA to add any comments or changes directly to the document using track changes.	RCMA notified YMAC 19/08/2020 that their response was taking longer than expected and anticipate a response next week which YMAC acknowledged by email.
YMAC	02/09/2020	Email	Ebony Paskov (YMAC) Ken Aitken (RCMA) Jeremy Brown (YMAC) Andrea Wills (RCMA)	Request for progress on review of revised SYA Petroleum Exploration Heritage Agreement.	RCMA notified YMAC on the 02/09/2020 that their response was being finalised and should be sent through on the 04/09/2020 which was acknowledged by email 02/09/2020. Submission timeframe altered to the 08/09/2020 on the 04/09/2020.
YMAC	07/09/2020	Email	Ken Aitken (RCMA) Ebony Paskov (YMAC) Jeremy Brown (YMAC) Andrea Wills (RCMA)	RCMA sent through a revised Cultural Heritage Survey Agreement for YMAC review and amendment.	
YMAC	17/09/2020	Email	Ken Aitken (RCMA) Jeremy Brown (YMAC) Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)	YMAC sent through a revised Cultural Heritage Survey Agreement for RCMA to review prior to the Southern Yamatji Meeting on the 07/10/2020.	Ken acknowledge receipt of the document via email.
YMAC	24/09/2020	Email	Ken Aitken (RCMA) Jeremy Brown (YMAC) Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)	RCMA sent back a revised draft accepting the majority of YMAC's amendments except for clause 13A.	Jeremy acknowledged receipt of the document and stated that his initial impression was that the amendment to clause 13A captures what YMAC are trying to convey.
YMAC	12/10/2020	Email	Jeremy Brown (YMAC) Ken Aitken (RCMA) Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)	YMAC advice that cultural heritage survey agreement went to the Southern Yamatji working group who have a few further minor amendments to the agreement.	RCMA to review the amendments to the agreement.
YMAC	21/10/2020	Email	Jeremy Brown (YMAC) Ken Aitken (RCMA) Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)	YMAC flagging to RCMA that the Southern Yamatji claim will end once the Yamatji Nation Indigenous Land Use Agreement is registered (26/10/2020). It is not anticipated that this will represent any issues for the agreement or the survey.	
YMAC	28/10/2020	Email	Jeremy Brown (YMAC) Ken Aitken (RCMA)	RCMA providing updated draft following CJV review of heritage survey agreement.	YMAC provided feedback by phone and by email 29/10/2020 that with the exception of the report preparation period, YMAC consider the drafting of the

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			Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)		agreement substantially completed. RMCA agreed to a period of 20 business days.
YMAC	03/11/2020	Email	Jeremy Brown (YMAC) Ken Aitken (RCMA) Ebony Paskov (YMAC) Andrea Wills (RCMA) Callum Forsey (YMAC) Philippa Hunter (YMAC)	YMAC advised that there is a legal issue with YMAC's role / capacity to act as agent for Southern Yamatji now that the claim has ended.	
YMAC	20/11/2020	Phone & Email	Jeremy Brown (YMAC) Ken Aitken (RCMA)	YMAC advised that the survey agreement could not be executed. It is unlikely that this agreement would be able to be executed until January 2021. RCMA have the option to progress the matter through the Yamatji Southern Regional Corporation.	
YSRC	23/11/2020	Phone	Andrea Wills (RCMA) Glenda Jackamarra (YSRC)	RCMA introduced who they were and that they had gotten her contact details from Terra Rosa as RCMA intend to undertake an on-ground heritage survey. YSRC instructed RCMA to send an introductory email to her.	RCMA to send an introductory email to YSRC. Email sent 23/11/2020.
YSRC	26/11/2020	Email	Danial Puletama (S&S) Andrea Wills (RCMA) Glenda Jackamarra (YSRC)	YSRC had advised S&S that RCMA wanted to undertake an on-ground heritage survey. S&S provided advice as to how to get an agreement in place. S&S also requested a project information package.	RCMA emailed S&S the YMAC agreement and requested S&S to call RCMA to discuss.
YSRC	27/11/2020	Phone	Danial Puletama (S&S) Andrea Wills (RCMA)	RCMA and S&S discussed the existing YMAC agreement and its suitability. S&S were confident it was suitable. RCMA requested clarification on the parties to be named in the agreement.	S&S responded by email on 30/11/2020 with the names of the parties to be named in the agreement and instructions on whom to send the signed agreement.
YSRC	03/12/2020	Email	Andrea Wills (RCMA) Danial Puletama (S&S) Glenda Jackamarra (YSRC) Paul Case (YSRC) Ken Aitken (RCMA)	RCMA forwarded a copy of the signed heritage survey agreement as discussed with S&S on 27/11/2020 for consideration by YSRC on 07/12/2020.	Email receipt confirmation received from S&S 06/12/2020.
YSRC	15/12/2020	Email	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA enquiry as to the progress of the meeting on the 07/12/2020.	S&S advised that it was agreed to sign the agreement and to get it to RCMA as soon as possible.
YSRC	22/12/2020	Email	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA enquiry as to how to kick off the heritage survey. S&S requested by email a heritage survey request 04/01/2021 and provided a template 05/01/2020.	RCMA returned the completed heritage survey request form with attachments and .shp files. It was noted that RCMA had not received a copy of the signed agreement so the agreement # on the request form was left blank.
YSRC	07/01/2021	Email / Phone	Danial Puletama (S&S) Andrea Wills (RCMA)	S&S provided a cost estimate for the heritage survey and proposed Tuesday 12/01/2021 for the survey. RCMA spoke to S&S to discuss details of the survey and arrange a last minute confirmation on Monday morning based on the fire weather bans however the forecast looks good.	RCMA provided a layout showing directions to meet at Jingemia.
YSRC	11/01/2021	Phone	Andrea Wills (RCMA) Danial Puletama (S&S)	Confirmation that the fire ban status looks favorable for us to undertake a survey tomorrow.	Meet at Jingemia at 8:30am
YSRC	12/01/2021	Email	Allan Wedderburn (RS) Andrea Wills (RCMA) Ken Aitken (RCMA) Danial Puletama (S&S) Carol Martin (YSRC) Del Whitby (YSRC) Shirley McPherson (YSRC) Paul Case (YSRC) Roxanne Lines (YSRC)	Provision of signed heritage agreement for Cervantes 1 Project.	RCMA confirmed receipt of heritage agreement 14/01/2021.
YSRC	12/01/2021	Site Visit	Andrea Wills (RCMA) Allan Lenane (Lenanes) Daniel Puletama (S&S) Phil Czerwinski (S&S)	S&S Anthropologist, Archaeologist and 6 elders undertook a heritage survey over the Cervantes 1 Project Area. Personnel walked the entire area and made observations before providing initial recommendations for a follow up report.	Daniel Puletama to coordinate the compilation of a heritage survey report.

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			Michael Taylor F. Taylor Karen Whitby Darren Callow Jai Taylor Kirk Taylor		
YSRC	12/02/2021	Phone	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA enquiry as to progress of the Heritage Survey Report. Report has been delayed sign off by the board due to corona virus lock down.	S&S will send through the unrated version to RCMA in the meantime.
YSRC	16/03/2021	Email and Phone	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA enquiry as to when the cultural heritage report would be sent through. S&S notified they had sent through on 24/02/2021. RCMA checked and found some of the emails in junk folder.	S&S to send remainder of files through via email.
YSRC	18/03/2021	Email	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA raised an issue with the boundary presented in the Heritage Survey Report did not match where was physically traversed during the survey or match the proposed project footprint. This could be a relic of the original .shp file provided by RCMA.	S&S reviewed the discrepancy 19/03/2021 and reissued the survey report 03/05/2021. Nine more spots were identified, these were reviewed and the survey report reissued 07/05/2021.
YSRC	07/05/2021	Email	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA seeking advice in regard to the Heritage Survey Report recommendation for a 'Site Discovery Procedure'. S&S provided a copy.	
YSRC	24/11/2021	Phone	Andrea Wills (RCMA) Danial Puletama (S&S)	RCMA notifying YSRC that they anticipate preparing the Cervantes 1 site mid January 2022. S&S advised that personnel are back on the ground 2 nd January so this will be ok. RCMA to contact S&S in December with an Activity Notice.	RCMA to develop and forward activity notice to S&S.
Wattandee Tribe	05/07/2021	Email	Chris Newport (RCMA) Thomas Cameron (Wattandee Tribal Elder)	Email introduction to a tribe from Mingenew interested in industry activities during the EPA Report public appeal period.	RCMA thanked Thomas for the introduction and welcome a meeting with the Wattandee Tribe.
Landowners	10/01/2022	Letter	Six Local Landowners Ken Aitken (RCMA)	Letter to six local landowners north of the Beekeepers Nature Reserve fire break (4km north of Cervantes 1 well site) notifying them of upcoming civils activities and proposed drilling timing.	The landowner with a residence on their property had their letter hand delivered on 12/01/2022. The project was discussed and the landowner was pleased that the overgrown firebreak was being maintained. The landowner noted many years ago noise issues with the Jingemba Facility.