



Our ref: Registration ID: 59389  
Enquiries: Adam Ashby (08) 9222 3541  
Email: adam.ashby@dmp.wa.gov.au

CHRISTMAS ISLAND PHOSPHATES  
PO BOX 104  
CHRISTMAS ISLAND  
WA 6978

Attention: James Keogh, Technical Services Manager

Dear Sir

**PROGRAMME OF WORK APPROVAL FOR EXPLORATION ON ECI 70/2  
REGISTRATION ID: 59389**

I refer to your Programme of Work (PoW) application dated 2 June 2016, for exploration on ECI 70/2.

Approval is granted for the use of mechanised equipment for exploration purposes as outlined in your PoW. This approval is valid for a period of four years from the date of this approval letter. Extensions to this timeframe will be considered by the Department of Mines and Petroleum (DMP) provided an extension request is submitted to a DMP Environmental Officer prior to the expiry of the PoW.

Please be reminded that you are required to report disturbance data on an annual basis and pay any corresponding levy in accordance with the *Mining Rehabilitation Fund Act 2012* and associated Regulations.

This approval does not remove the need for any necessary approvals from other authorities. The approval also does not supersede any other applicable provisions of the *Mining Act 1978*, *Mining Regulations 1981*, *Mines Safety and Inspection Act 1994* and *Mines Safety and Inspection Regulations 1995*.

Ground disturbance should be minimised where possible to reduce the environmental impact and maximise natural rehabilitation. You are reminded of the need to comply with all tenement conditions including the requirement to rehabilitate all exploration disturbances within 6 months of the disturbance occurring. In this regard it is recommended that an internal compliance audit programme is implemented to ensure compliance with the *Mining Act 1978*.

DMP also requests that you submit an **Exploration Rehabilitation Report** once all rehabilitation work has been completed. A proforma report has been attached for easy reference.

Please note, this letter does not constitute a Clearing Permit under Part V Division 2 of the *Environmental Protection Act 1986*, for clearing of native vegetation. A Clearing Permit must be gained independently through the DMP if required.

Yours faithfully

*Adam Ashby*

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**Adam Ashby** | Environmental Officer  
Operations, Environment  
22 June 2016

*Enc: Exploration Rehabilitation Report Proforma*

## EXPLORATION REHABILITATION REPORT

On completion of the Exploration Programme, please complete the Exploration Rehabilitation Report and return to  
DMP ONLY via email ([records@dmp.wa.gov.au](mailto:records@dmp.wa.gov.au)) or fax (08 9222 3862)

Programme of Works (POW) Reg. ID(s):	Company:
Tenements	
Date Programme Commenced:	Date Programme Completed:

Exploration Activity	Y/N or NA	Comments
Drill Holes	Plugged 400mm below ground level	
	Backfilled above plug and mounded	
Drill Pads	Topsoil and vegetation re-spread (unless blade-up clearing)	
	Scarified if required	
Sumps/Costeans/Test Pits	Constructed	
	Topsoil/vegetation stockpiled	
	Ramped	
	Backfilled	
	Topsoil/vegetation respread	
Samples	Removed from surface of pad and buried (unless non-hostile, similar colour to surrounds and not within DPaW Managed Land or a water reserve)	
	Sample Bags/Bag Farm removed	
	Hostile Material (e.g. acid forming material, heavy metals, radioactive or fibrous materials) removed or appropriately buried	
	Drill spoil removed or scarified	
Hydrocarbons	Contaminated material removed and appropriately disposed	
Access Tracks & Gridlines	Access Closed Off	
	Topsoil and vegetation re-spread (unless blade-up clearing)	
	Scarified if required	
Campsite	Any concrete pads removed or broken and buried	
	Other infrastructure removed	
	Topsoil and vegetation re-spread and area scarified (if required)	
Miscellaneous	Surface water drainage lines reinstated	
	Rubbish & Infrastructure Removed	
	Cut and fill pads/tracks re-profiled to original slope	
Revegetation	Pads revegetating with local provenance species	
	Weeds/invasive species present	
Evidence	Map attached showing location of rehabilitated areas and representative photographic evidence	

**GENERAL COMMENTS** (attach any additional information you consider relevant – e.g. include any areas yet rehabilitated)

All statements made and information given is true and correct:

Name	Position
Contact Phone	Email
Signature	Date



**Registration ID:** 59389

**User ID:** EX17681

**Operator Reference:** James Keogh

## PROGRAMME OF WORK - EXPLORATION (MINING ACT 1978)

Applicant/Company Name: CHRISTMAS ISLAND PHOSPHATES		Contact Person: Mr James Keogh	
Address:	PO BOX 104, AUSTRALIA CHRISTMAS ISLAND 6798WA		Position:
Email:	jamesk@cirp.com.au		Tel: 0891648400
Mob:			Fax: 91648404
<b>Tenement Details</b>			
Tenement No/s.	Registered Holder?	Holder (Name and Address)	Tenure Types*
ECI 70/2	Yes	PHOSPHATE RESOURCES LTD PO BOX 401 VICTORIA PARK WA 6979	UCL/VCL

\*Landowner consent and Surface Rights are required (Section 29, Mining Act). Please check your tenement conditions.

△Ground disturbing activities within Reserves (e.g. Water Reserves, Road Reserves) may require consent from the vested authority, and/or Ministerial consent. Please check your tenement conditions.

### Please note the following:

- Please ensure your PoW is complete and that you have checked and complied with tenement conditions prior to lodging your PoW with the Department of Mines and Petroleum (DMP). **Incomplete applications will be rejected.**
- **Requests** for further information will have a time limit of **10 working days to respond to the Department.**
- **All bond requests will remain valid for a period of 3 months.** This PoW will be rejected 3 months after the date of issue of the bond request letter.
- Please allow sufficient time for this proposal to be assessed (at least 30 business days). If all required information is not supplied, or if consultation with other agencies is required, then the assessment time frame may increase.
- The *Mines Safety and Inspections Act 1994* requires an Exploration Operation Notification form to be submitted to Resources Safety Division of DMP prior to the proposed activities (see section 6) taking place.  
<http://www.dmp.wa.gov.au/6711.aspx#7074>
- DMP have a Memorandum of Understanding (MoU) with the EPA, certain criteria may trigger DMP to seek advice from other agencies. The MoU document is available at: <http://www.dmp.wa.gov.au/documents/MOU.PDF>
- Please do not modify this form.
- This application will be made available to other government agencies as required.

## 1. Tenement Conditions

- ☐ If exploring for Iron Ore, have you checked your conditions to see if you have Iron Ore endorsement?
- ☒ I have addressed all relevant tenement conditions for this Programme of Work application.

## 2. Proposed Dates

Approval will be valid for 48 months from date on Approval letter\*

**Commencement Date:** 13-Jun-16**Completion Date:** 30-Dec-17

\* "If approved, the programme will be granted for 48 months from the date shown on the approval letter. Application for an extension to timeframe can be made to an Environmental Officer prior to the expiry of the approval. A PoW is only valid on live tenure. Rehabilitation is to be undertaken within 6 months of the date the ground disturbance occurred to comply with tenement conditions. Justified extensions require written approval from DMP.

### 3. Aboriginal Heritage Management



I have completed a query of the Register of Aboriginal Sites at <http://www.daa.wa.gov.au> for the area subject to this application.

The Programme, if approved, does not remove the need to obtain any approvals required under the *Aboriginal Heritage Act 1972*



The proposal partly or wholly intersects the boundary of a registered site.



Consultation has commenced with the Department of Aboriginal Affairs (DAA).\*

Further referrals may be required under the *Environmental Protection Act 1986*.

\* To facilitate consultation, DAA will require (i) a description and map (GDA94 co-ordinates) showing the proposed activities and the affected mining tenements, (ii) the title, author and date of any Aboriginal heritage survey conducted over the area, and (iii) a copy of this survey if not already provided to DAA.

Do not submit this application to DMP until you have commenced consultation with DAA or your application may be rejected.

### 4. Minerals Being Explored

Mineral	Brief Description
PHOSPHATE	

### 5. Proposed Activities

<b>Tenement Number:</b> ECI 70/2				
<b>Activity Type:</b> Drilling				
<b>Type of Drilling Rig:</b> RAB/Aircore				
# Drill holes proposed: <b>400</b>	Max Depth of holes (m): <b>15</b>	Spacing (m): <b>30</b>	Is this infill / resource drilling?: <sup>*1</sup> <b>N</b>	
# Drill pads: <b>0</b>	Length (m): <b>0</b>	Width (m): <b>0</b>		
Line / Track Clearing Length (m): <b>13040</b>		Width (m): <b>5</b>		
Is the drilling likely to encounter groundwater? <sup>*3</sup> <b>N</b>				
# Sumps:	Length (m):	Width (m):	Depth(m):	
Cut & fill pad construction required?: <b>N</b>				
# Cut & fill Pads:	Length:	Width (m):	Slope (°):	S.G:
Cut & fill tracks construction required?: <sup>*2</sup> <b>N</b>				
# Cut & fill tracks:	Length:	Width (m):	Slope (°):	S.G:
<b>Total Area Disturbed (Ha)</b>	<b>6.52</b>	<b>Total Tonnage Disturbed</b>	<b>0</b>	

<sup>\*1</sup> If proposing infill / resource drilling, it is recommended you conduct waste characterisation to assist in mine planning. Waste characterisation is required when seeking approval to mine. Please refer to the ["Guidelines for Mining Proposals in Western Australia"](#) on the DMP website.

<sup>\*2</sup> Please ensure the additional information includes the number of pads, pad dimensions (length x width) and specific gravity, specific for each gradient. If you are having difficulties please contact an Environmental Officer (EO), DMP for assistance. The [Departmental Hillside](#)

[Tonnage Calculator](#) (used as a guide to calculate tonnage estimates for cut and fill activities associated with exploration/prospecting activities) is available on the DMP website.

- \*3 Refer to the "[Guidelines for the protection of surface and groundwater resources during exploration drilling](#)". If the proposed drilling has potential to intercept artesian aquifers, consultation and permitting from the Department of Water (DoW) may also be required.
- \*4 If yes, please provide a covering letter detailing; camp facilities (number of dongas, size of camp etc), environmental management (e.g. waste disposal, surface water management, etc), other relevant approvals (e.g. Shire), rehabilitation procedures of the facility and an additional map illustrating the site layout.
- \*5 Note that tonnage limits on P's and E's apply to tonnage disturbed for excavations (costeans, test pits, etc), cut and fill pads, access tracks and larger than normal sumps. If unsure, please consult the Regional EO, DMP.

## 6. Summary of Areas and Tonnage Disturbed

ECI 70/2			
<b>Total Disturbance Area (Ha)</b>	6.52	<b>Total Disturbance Tonnage</b>	0
Previous Disturbance (Ha)	882.887	Cumulative Tonnage Disturbed	0.000
Excess Tonnage Approval	N/A		
Comments	<p>ECI 70/2 was granted on 13/12/2015 and covers approximately 3072.211 hectares.</p> <p>Proposed works will be conducted utilising existing drill lines cleared by previous operators.</p> <p>Previous mining companies on Christmas Island (prior to 1991) have undertaken broadscale clearing in preparation for mining, plus clearing of exploration tracks and drilling along these tracks. Assessment of historic data (pre 1991) indicates approximately 800.653 hectares within ECI70/2 have already been cleared. A further 82.234 hectares within ECI70/2 have been cleared for exploration drill lines pre 1991.</p> <p>Attached files show extent of clearing conducted by previous operators pre 1991.</p> <p>Attached file Clearing Permit CPS 6920/1 provides evidence of permit conditions and approved areas.</p>		

Note that tonnage limits on P's and E's apply to tonnage disturbed for excavations (costeans, test pits, etc), cut and fill pads, access tracks and larger than normal sumps. If unsure, please consult the Regional EO, DMP.

\*Disturbance exceeding 500 tonnes on a Prospecting Licence (Section 48c Mining Act 1978) or 1,000 tonnes on an Exploration Licence (Section 66c Mining Act) requires delegated approval from the Director, Mineral Titles Division (MTD). Please note that disturbed tonnage is cumulative for the life of the tenement. Any excess over 50,000 tonnes requires Ministerial approval. The tenement holder is required to contact (MTD).

## 7. Maps

The plan should clearly show the location of the following:

Number of Map Files Uploaded : 3	Map File Name :	DMP_cps6920_central_east_cip_planned_disturbanc e_may2016_v2.pdf DMP_cps6920_dogshead_cip_planned_disturbance_ may2016_v2.pdf DMP_cps6920_southpoint_cip_planned_disturbance_ may2016_v2.pdf
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**NOTE:** plans using a topographical map or aerial photo are required, with GDA94 co-ordinates.

- Proposed activities and disturbance (showing drill holes and/or lines)
- Line and track clearing
- Major landforms and topographical features
- Existing tracks / route onto tenement and route to proposed drill holes/costeans
- Tenement boundaries and labels
- Freehold land / Reserve location boundaries and relevant cadastral information
- Legend

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## 8. Environment Protection Authority (EPA)

Are the activities proposed in this Programme of Work located within an **area currently under formal assessment by** the EPA under Part IV of the *Environmental Protection Act 1986*?:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Has the **area subject to this PoW ever previously been assessed** by the Environmental Protection Authority (EPA) under Part IV of the *Environmental Protection Act 1986*?

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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## 9. Clearing of native vegetation

Does your proposal involve the clearing of native vegetation?

☒ Yes      ☐ No

Clearing for exploration purposes is exempt from requiring a clearing permit provided it is not within an Environmentally Sensitive Area (ESA), and is conducted under an authority granted under the *Mining Act 1978* (e.g. an approved Programme of Work). This exemption is found at item 25 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004.

The Native Vegetation Map Viewer provides a guide to the locations of ESA's. <http://maps.dec.wa.gov.au/idelve/nv/index.jsp>. Instructions on using the Map Viewer can be found on the DMP website at <http://www.dmp.wa.gov.au/17202.aspx>

Environmentally Sensitive Areas are defined in regulation 6 of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004. *Some examples of ESA's are Bush Forever Sites, areas listed on the Register of National Estate for natural values, the area within 50 m of Declared Rare Flora, and the area covered by a Threatened Ecological Community*

If you have any queries regarding clearing permits please contact the DMP – Native Vegetation Assessment Branch (9222 3570)

<b>j) Is the clearing of native vegetation that you propose within an Environmentally Sensitive Area?</b>		
<input checked="" type="checkbox"/> Yes	<i>If known, please state the type of ESA (e.g. Bush Forever Site, Threatened Ecological Community etc);</i>	<input type="checkbox"/> No (Please go to Section 10)

	Listed on Register of National Estate	
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<b>ii) Is the clearing within an ESA covered by an existing Ministerial statement or under EPA assessment?</b>		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
<b>iii) Have you applied for a permit to clear native vegetation?</b>		
<input checked="" type="checkbox"/> Yes	CPS Number:6920/1  Lodgement Date:	<input type="checkbox"/> No

**NOTE:** Allow at least 15 weeks for processing of a clearing permit application. Your Programme of Work will not be approved until the clearing permit is granted and an additional 30 day period allowing for public appeal has expired. If an appeal is lodged clearing cannot be conducted until the appeal is settled.

## 10. Environmental Management

**Note:** If relevant Environmental Management and Rehabilitation Practices for all activities selected under section 5 “Proposed Activities” are not selected, this may extend the assessment timeframe as further information will be sought.

### 10.1 Environmental Management and Methods of Minimising Disturbance

- ☒ Use of raised blade for clearing tracks & drill pads
- ☒ Using existing tracks where available
- ☒ Avoiding significant vegetation e.g. large trees, thickets, mulga groves
- ☒ Vegetation stockpiled separately for use in rehabilitation when constructing drill pads
- ☐ Topsoil and vegetation stockpiled separately for use in rehabilitation when constructing sumps and/or costeans
- ☐ Excavations (sumps, costeans etc.) appropriately ramped to allow fauna egress
- ☒ Use of liners and drip trays under rigs to minimise risk of hydrocarbon spillage
- ☐ Use of sumps of appropriate size to contain all water and sediment encountered during drilling (sump to be located away from significant vegetation, and water courses)
- ☒ Use of appropriate machinery to minimise impacts (excavator instead of bulldozer, wheeled machinery instead of tracked, specialist drill rig etc...)
- ☒ Vehicle hygiene maintained to prevent the spread of plant pathogens (e.g. *Phytophthora sp.*) and/or invasive species. (check requirements of tenement conditions for specific management, e.g. Dieback Management Plan)
- ☒ Other (please specify): Vegetation brushed to side of exploration track.
- ☒ Vegetation quickly breaks down in tropical environment.
- ☒ Machinery washed down before first pass clearing.
- ☒ Operator to avoid significant veg where possible



Exposed rocks ie limestone to be pushed to side of tracks  
 Procedures in place for any hydrocarbon spills  
 CPS6920/1 contains weed management conditions as per CIP Weed Management Plan  
 Within CPS 6920/1 buffer conditions exist for fauna, flora and National Park.  
 Access by service/fuel truck during operating hours which includes own spill kit  
 Minimal traffic therefore minimal compaction (1 960 FEL, 1 drill rig, 2 light vehicles)  
 Traffic management plan to avoid compaction and ensure refuelling areas etc

## **10.2 Rehabilitation Practices and Timing**

- ☒ Drill holes secured immediately after drilling (capped/plugged)
- ☐ Drill holes securely plugged below ground at minimum depth of 400mm within 6 months of drilling (If not using concrete, conical plugs, please specify type in Other)
- ☒ Scarifying/Ripping of compacted areas on the contour
- ☒ Blocking access to tracks
- ☒ Drill sample piles rehabilitated or buried
- ☒ Sample bags removed within 6 months of drilling
- ☒ All rubbish removed from site (including any hydrocarbon spills)
- ☐ Excavations (e.g. sumps, costeans etc.) backfilled and respread with topsoil and cleared vegetation
- Other (please specify): Christmas Island is a high rainfall, tropical environment. After clearing the vegetation rapidly regenerates and recovery and growth is very quick. Therefore no formal rehabilitation (i.e. ripping, seeding, planting etc) is necessary due to the rapid natural recovery of the natural vegetation after clearing.
- ☒ Geoscience Australian are considering undertaking a program of ground geophysics and downhole survey and have requested access to drill lines and drill holes for future analysis. therefore some tracks and drill holes may be left open longer than 6 months to facilitate this work. Also, other land users ie Parks Australia North will use some tracks during island wide surveys so ideally tracks stay accessible in the future.

Tenement conditions require that all rehabilitation must be completed within 6 months of drilling. **Any extension of this timeframe requires the written approval of an Environment Officer before the six month period expires.**

## **10.3 Describe Existing Environment and Vegetation**

*(E.g. Mulga scrublands, Eucalypt / saltbush woodland, Spinifex grassland, Jarrah forest, Farmland, etc.)*

Vegetation within CPS6920 has previously been cleared for exploration prior to 1991. Classifications (Geoscience Australia Mapping 2014) are described in CPS 6920/1 as:

Not vegetated - 0.04 hectares  
 Regrowth - 2.14 hectares  
 Semi deciduous forest - 0.14 hectares  
 Semi deciduous scrub- 0.01 hectares  
 Weed dominated vegetation and pioneer regrowth - 0.09 hectares  
 Closed canopy evergreen forest - 3.54 hectares

## **10.4 Describe Landform**

*(E.g. flat alluvial plain, greenstone, range, creek/drainage lines, hillsides etc.)*

Most of the proposed exploration will be conducted on the flat, central plateau region of the island. Several exploration tracks are proposed on secondary terraces located in the southern and northern regions.

**10.5 Do the proposed activities occur on isolated hills / ranges in the Midwest or Yilgarn (banded iron formations) (BIF)?**

☐ Yes ☒ No

**10.6 Is your exploration program likely to encounter Radioactive Material?**

☐ Yes ☒ No

**10.7 Is your exploration program likely to encounter fibrous materials such as asbestos?**

☐ Yes ☒ No

**10.8 Does the proposed activity interfere with the Beds and/or Banks of a watercourse?**

☐ Yes ☒ No

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**All statements made and information given in this certified application is true and correct. I acknowledge that this application will be rejected if I have not addressed all relevant tenement conditions and/or sufficient information is not supplied.**

☒ Yes

Name: james keogh

Position: Technical Services Manager

Date: 02-Jun-16