

File Note

EMR/CLR REGISTRY

~Attention WaLCA Officer & Delegate~

PROJECT#: AR073586

EMR/CLR Lot on Plan / Site ID: Lot 356 SP230904 (Site ID 87184)

Base Parcels Lot 199 MCH4087 & 356 MCH4532

File Ref: 900013 Volumes 1-3 incl.

Location Address: Brisbane and Langton Roads, GYMPIE.

Background:

07/05/2015

Customer completed online Contaminated Land Search over Lot 356 RP230904, and received a response stating amalgamation of Base Parcels/Lots 199 MCH4087 & 356 MCH4532. Upon review of the Base Parcel Lot 356 MCH4532 it is noted a Site Management Plan / Conditions of use being available for the site. Upon searching all storage facilities for the relevant Conditions Of Use over Lot 356 MCH4532, no official/definitive notice/report (only in draft/unsigned format) is held on file.

Action:

08/05/2015

WACLA to review the historical files, and advise the customer of the Conditions of Use relating to the site in question. WACLA to provide details to the EMR/CLR Registry for updating the EMR site record.

Please Note: Historical information within the files, documented reference to media and Ministerial attention.

EMR/CLR Registry

Gavin Lucke
Senior Environmental Support Officer

s.73 irrelevant information

Sign:

Date:

DUE DATE FOR RESPONSE: Friday 15/05/2015Reason for decision:

~~The attached draft SMP was lost and not signed in 1998. This administrative error should be fixed. The draft SMP needs to be have the draft stamps removed, then signed by the registrar and added to the EMR. The appropriate notices must be sent and a copy must be sent to Ops (the engineer).~~

I have responded to the client,
No further action

WaLCA Officer

Name: Josh Brown

Sign: 73 irrelevant information

Date: 20/05/15

No decision on
charge to
EMR

Delegate

Kelly Gleeson

Sign:

Date:

BROWN Josh (EHP)

From: BROWN Josh (EHP)
Sent: Wednesday, 20 May 2015 12:07 PM
To: s.73 irrelevant information
Cc: EMR CLR Registry
Subject: Gympie Old Scottish Mine Site

Dear relevant info

Thankyou for your enquiry regarding the site management plan for Lot 356 on MCH4532. It has been found that no site management plan has been approved over the site. Work conducted on site must still comply with the provisions of the Environmental Protection Act 1994, for example contaminated soil may only be disposed of off-site by using a soil disposal permit.

In the interest of workplace health and safety, it may be of use to request historical site reports from the site owner (Gympie City Council) or from the State Government through a right to information request:
<http://www.rti.qld.gov.au/>

Yours sincerely,

Josh Brown
Environmental Officer
Waste and Contaminated Land Assessment
Environment and Heritage Protection
Ph: 07-3339-5842
Em: josh.brown@ehp.qld.gov.au

BROWN Josh (EHP)

From: BROWN Josh (EHP)
Sent: Wednesday, 20 May 2015 12:07 PM
To: 'Celia Dempster'
Cc: 'health@gympie.qld.gov.au'
Subject: RE: Old Scottish Mine site - seeking legacy records

Hi Celia,

Thankyou for looking into the records. It is apparent that there is no SMP approved over the site. Therefore the site is still listed on the EMR and restricted to the use of public open space as per the listing. Work on the site must still comply with the Environmental Protection Act 1994 e.g. using soil disposal permits for offsite disposal. I will notify Opus of these requirements in response to their enquiry regarding the construction of a drainage tunnel on site.

In the interest of human health and the environment, it is the Council's responsibility (as the site owner) to investigate the site (Lot 356 on MCH4532) and seek approval for a new draft site management plan.

Yours sincerely,

Josh Brown
Environmental Officer
Waste and Contaminated Land Assessment
Environment and Heritage Protection
Ph: 07-3339-5842
Em: josh.brown@ehp.qld.gov.au

From: Celia Dempster [mailto:Celia.Dempster@gympie.qld.gov.au]
Sent: Tuesday, 19 May 2015 12:46 PM
To: BROWN Josh (EHP)
Subject: Re: Old Scottish Mine site - seeking legacy records

Hi Josh

I've had our Records team look into this and the only document they can find is the one I've attached, which appears to be the incoming version of the SMP. They've had a look and cannot find it in the Agenda for the Council Meeting mentioned on your copy that you attached.

I've also spoken with another officer who was here at the time and he cannot shed any more light either.

Sorry that is all I can find out.

Cheers,
Celia

Celia Dempster
Environmental Health Officer

Gympie Regional Council
 Environmental Health and Regulatory Services Branch
 Planning and Development Directorate
 29 Channon Street (PO Box 155)
 Gympie Qld 4570
 Phone: (07) 5481 0455
 Fax: (07) 5481 0801
celia.dempster@gympie.qld.gov.au
www.gympie.qld.gov.au

>>> "BROWN Josh (EHP)" <Josh.BrownEHP@ehp.qld.gov.au> 14/05/2015 8:02 AM >>>

Hi Gympie Health team,

I work in the contaminated land assessment team for EHP. We have received an enquiry regarding the old Scottish Mine site on Brisbane Road.

I am seeking a copy of the Site Management Plan for Lot 356 on SP230904 (Brisbane Road, Gympie). The site is owned by the Gympie City Council. I have managed to find a draft copy of the SMP which was sent to the former Cooloola Shire Council council (Allan Caulfield, Senior Environmental Health Officer) in 1998 from the former Department of Environment (Mack Dreyer) for comment, however no further record of it has been found.

Please feel welcome to phone me on the below number for any clarification over this issue,

Thankyou,

Josh Brown

Environmental Officer

Waste and Contaminated Land Assessment

Environment and Heritage Protection

Ph: 07-3339-5842

Em: josh.brown@ehp.qld.gov.au

 The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

 Click [here](#) to report this email as spam.

This e-mail (including all attachments) contains information which is confidential and may be subject to legal or other

professional privilege. It may contain personal information which is intended for the exclusive use of the addressee(s). No part of

this e-mail should be reproduced, adapted or communicated without the sender's prior written consent. If you have received this e-mail in error,

please advise us by e-mail, delete it from your system and destroy all copies. Any confidentiality or privilege associated with this e-mail is not waived or lost because it has

Site Management Plan - Lot 356 on RP 893288

Summary of Contamination

Elevated levels of arsenic and mercury have been identified in soils across the northern and central area of Lot 356 on RP 893288. From 38 soil samples collected across this area arsenic concentrations ranged from 55 mg/kg to 1070 mg/kg with a mean of 580 mg/kg. Mercury concentrations ranged from 0.1 mg/kg to 18.8 mg/kg with a mean of 7 mg/kg.

The arsenic occurs naturally and is associated with former gold mining activities. The previous use of the site to process gold ores is the source of the mercury contamination.

Objective of Plan

The contamination on Lot 356 on RP 893288 is to be managed to protect human health and environment by:

- preventing migration of contamination from the site.
- the application of controls on site excavation works.

Achievement and Management of Objectives

The owner (or the owner's agent) is to ensure the following conditions are complied with to ensure that the plan objectives are achieved and maintained.

1. Areas where vehicle or pedestrian traffic would damage grass cover are to be paved.
2. The site is to be maintained with grass cover to prevent soil erosion.
3. General public access to the retort house is to be restricted to viewing only.
4. The mercury tank is to be covered and access to it prohibited.
5. The lagoon is to be signposted "Lagoon Not Suitable for Drinking or Swimming".
6. Additional site investigation studies are to be undertaken prior to any site works which would result in substantial disturbance to the lagoon or its drainage system.
7. A Workplace Health and Safety Plan which satisfies relevant obligations of the *Workplace Health and Safety Act*, subordinate legislation or its equivalent, is to be developed for all site work involving excavation on the site.
8. Approval under Section 14 of the *Contaminated Land Act 1991* (or equivalent) must be obtained before removing any soil off site.

DRAFT

9. Site works relating to excavation, removal and/or disposal of soil from the contaminated area must include provisions which ensure that the environment is protected eg preventing spread of contamination by controlling site run-off, spillage from haulage trucks or improper disposal of contaminated stormwater or seepage. All contamination safety and excavation processes are to be documented and records kept which demonstrate Site Management Plan compliance.

Monitoring Requirements

A biennial inspection of the site including a review of excavation, soil disposal and safety records is to be undertaken and a written report is to be provided to the Department of Environment on the state of the site in relation to the above conditions. The biennial period is to commence from 1 March 1998.

DRAFT

DRAFT

DRAFT

2

3.0 LOCAL GOVERNMENT**Name:**

Cooloola Shire Council

4.0 STUDIES UNDERTAKEN BY APPLICANT OR REQUESTED BY DIRECTOR

1. Site Assessment Northern Part of Lot 356 on MCH 4532, prepared by irrelevant information and irrelevant information

5.0 STATUS ON REGISTER OF CONTAMINATED SITES**Status:**

Restricted

File No.:

900013

6.0 STATEMENT OF SUITABILITY

Based on the information provided to the Department of Environment the subject property is suitable for use as public open space including use as a historical tourist facility but excluding childrens play areas. The use of the site is subject to the conditions in the Site Management Plan set out in Annexure 1.

Note - The subject property may be suitable for other uses but approval from the Department of Environment is required.

DRAFT

Yours sincerely

Dr Dagogo Ibiebele
Manager (Hazardous Wastes & Contaminated Sites)

DEPARTMENT OF ENVIRONMENT
WASTE MANAGEMENT BRANCH

Sender: Mack Dreyer
Facsimile no: (07) 3227 8341
Telephone no: (07) 3227 8619
Address: 12th Floor
160 Ann Street
BRISBANE QLD 4000
Postal Address: PO Box 155
BRISBANE ALBERT STREET
QLD 4002

Receiver: Allan Caulfield, Senior Environmental Health Officer
Facsimile no: 07 54824140
Business/Section: Cooloola Shire Council
Date: 9 March 1998
Number of Pages: 5 (including cover sheet)

Allan

As discussed on the telephone this afternoon please find following for comment a draft Site Contamination Report and Site Management Plan (SMP) for the old Scottish Mine site in Gympie.

The format for the SMP is consistent with the requirements of the new contaminated land legislation. If you have any concerns or questions please do not hesitate to contact me.

s.73 irrelevant information

*intended s/f left message to call back.
Allan Caulfield advised that they are happy with what has been proposed but now it goes to Council on Tuesday.
14/3/98*

DRAFT

Hazardous Wastes & Contaminated Sites Section
(07) 3225 1827

9 March, 1998

SITE CONTAMINATION REPORT

REPORT NUMBER 143-000001

1.0 APPLICANT

Name:

Cooloolool Shire Council

Address:

PO Box 155
GYMPIE QLD 4570

2.0 PROPERTY IDENTIFICATION

2.1 Address:

Brisbane Rd
GYMPIE 4570

2.2 Real Property Description:

Lot 356 on RP 893288
County of
Parish of

2.3 Name and Address of Owner/s:

Cooloolool Shire Council
PO Box 155
GYMPIE QLD 4570

2.4 Current Zoning:

2.5 Proposed Zoning:

DRAFT

DRAFT

2

3.0 LOCAL GOVERNMENT**Name:**

Cooloola Shire Council

4.0 STUDIES UNDERTAKEN BY APPLICANT OR REQUESTED BY DIRECTOR

1. Site Assessment Northern Part of Lot 356 on MCH 4532, prepared by irrelevant information and irrelevant information

5.0 STATUS ON REGISTER OF CONTAMINATED SITES**Status:**

Restricted

File No.:

900013

6.0 STATEMENT OF SUITABILITY

Based on the information provided to the Department of Environment the subject property is suitable for use as public open space including use as a historical tourist facility but excluding children's play areas. The use of the site is subject to the conditions in the Site Management Plan set out in Annexure 1.

Note - The subject property may be suitable for other uses but approval from the Department of Environment is required.

Yours sincerely

Dr Dagogo Ibiebele
Manager (Hazardous Wastes & Contaminated Sites)

DRAFT

LUCKE Gavin

From: LUCKE Gavin on behalf of EMR CLR Registry
Sent: Friday, 8 May 2015 1:23 PM
To: s.73 irrelevant information
Cc: EMR CLR Registry
Subject: RE: QLD Contaminated Land Search Results (Your Reference: N-Y9024.00) (900013 07/05)
Attachments: SearchResponseReport[199MCH4087].pdf;
SearchResponseReport[356MCH4532].pdf

Good afternoon s.73 irrelevant information

In response to your request relating to any Site Management Plan over Lot 356 SP230904, please find the Contaminated Land search responses over the original amalgamated sites known as Lot 199 MCH4087 and Lot 356 MCH4532.

As noted in the response for Lot 356 MCH4532, reference is made to an SMP and/or information relating to the conditions of use of this site. I have requested the paper files to be recalled from our off-site storage facility, and I will arrange for an Officer to review the details relating to the conditions of use over the site. A response to this request may take up to 5 business days to be received.

Kind regards

Gavin Lucke

Senior Environmental Support Officer

Customer Service Team

Environmental Management & Contaminated Land Registers (EMR/CLR) Regulatory Capability and Customer Service Branch

Department of Environment and Heritage Protection

400 George Street, Brisbane Q 4000

GPO Box 2454, Brisbane Q 4001

Telephone: 1300 130 372 (Option 4)

Facsimile: 07 3330 5875

www.ehp.qld.gov.au

-----Original Message-----

From: s.73 irrelevant information
Sent: Thursday, 7 May 2015 9:36 AM
To: EMR CLR Registry
Subject: FW: QLD Contaminated Land Search Results (Your Reference: N-Y9024.00) (900013 07/05)
Importance: High

Hi,

Can you please tell me if there is a Site Management Plan for this site?

Thanks,

s.73 irrelevant information

-----Original Message-----

From: confirm@citec.com.au [mailto:confirm@citec.com.au]

Sent: Thursday, 7 May 2015 9:30 AM

To: 73 irrelevant informati

Subject: QLD Contaminated Land Search Results (Your Reference: N-Y9024.00)

Please find attached the search results for QLD Contaminated Land Search.

Search Criteria: 356/SP230904

Your Reference: N-Y9024.00

CONFIRM Reference: 83733855

Please contact CITEC Confirm Service Centre on 1800 773 773 between AEST 8:00am - 6:00pm or email: confirm@citec.com.au if you require any assistance.

Thank you for choosing CITEC Confirm



Queensland
Government

Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454 Brisbane QLD 4001 AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Transaction ID: 50174543 EMR Site Id: 87184 07 May 2015
This response relates to a search request received for the site:
Lot: 356 Plan: SP230904

SEARCH RESULT

The site you have searched is a lot resulting from the amalgamation of the following sites, which are included on the Environmental Management Register (EMR) or the Contaminated Land Register (CLR), as indicated below. Further details for these sites are available by contacting this Agency via email: emr.clr.registry@ehp.qld.gov.au

Lot	Plan	
199	MCH4087	EMR
356	MCH4532	EMR

ADDITIONAL ADVICE

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

Registrar
Administering Authority



Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454 Brisbane QLD 4001 AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Transaction ID: 50174582 EMR Site Id: 8878 07 May 2015
This response relates to a search request received for the site:
Lot: 356 Plan: MCH4532

EMR RESULT

The above site IS included on the Environmental Management Register.

Lot: 356 Plan: MCH4532
Address: BRISBANE ROAD
GYMPIE 4570

The site has been subject to the following Notifiable Activity pursuant to section 374 of the *Environmental Protection Act 1994*.

MINERAL PROCESSING - chemically or physically extracting or processing metalliferous ores.

While sites are listed on the EMR using the lot and plan description, a mining lease may affect only a limited area of the lot. In many instances with rural properties, only a small area may be potentially affected by the mining activities and the ongoing landuse is unaffected. More detailed information relating to the location of the mining activities may be held by the EPA or the Department of Natural Resources and Mines.

A site management plan has been prepared for this site and is included with this search response as Annexure 1. It has been determined that this site is suitable for the following uses, providing the site is used and managed according to the site management plan:

Details of suitable uses are available by contacting the Environmental Protection Agency.

Following the date of effect of the site management plan, subsequent uses of the site for notifiable activities or for situations where a hazardous contaminant is released into the soil may result in the need to review suitable uses or amend the attached site management plan.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Registrar
Administering Authority**



**Queensland
Government**

Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454 Brisbane QLD 4001 AUSTRALIA
www.ehp.qld.gov.au

ANNEXURE 1 - SITE MANAGEMENT PLAN

LOT : 356 PLAN : MCH4532 FILE REF : 900013 PRINTED: 07/05/2015

DATE OF EFFECT :

Further information relating to the conditions of use of this site is available by contacting the Environmental Protection Agency.



Queensland
Government

Department of Environment and Heritage Protection (EHP)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454 Brisbane QLD 4001 AUSTRALIA
www.ehp.qld.gov.au

SEARCH RESPONSE
ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Transaction ID: 50174581 EMR Site Id: 9034 07 May 2015
This response relates to a search request received for the site:
Lot: 199 Plan: MCH4087

This response relates to a search request received for the site:
Lot: 199 Plan: MCH4087
Address: LANGTON ROAD
GYMPIE QLD 4570

The site has been subject to the following Notifiable Activity pursuant to section 374 of the *Environmental Protection Act 1994*.

WOOD TREATMENT AND PRESERVATION - treating timber for its preservation using chemicals, including, for example, arsenic, borax, chromium, copper or creosote.

CLR RESULT

The above site is NOT included on the Contaminated Land Register.

ADDITIONAL ADVICE

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

Registrar
Administering Authority

LUCKE Gavin

From: s.73 irrelevant information @opus.com.au>
Sent: Thursday, 7 May 2015 9:36 AM
To: EMR CLR Registry
Subject: FW: QLD Contaminated Land Search Results (Your Reference: N-Y9024.00)
Attachments: c2CONSSearchS-83733855.pdf; Receipt-c2CONSSearchS-83733855.pdf
Importance: High

Hi,
Can you please tell me if there is a Site Management Plan for this site?
Thanks,

s.73 irrelevant information

-----Original Message-----

From: confirm@citec.com.au [<mailto:confirm@citec.com.au>]
Sent: Thursday, 7 May 2015 9:30 AM
To: s.73 irrelevant informatio
Subject: QLD Contaminated Land Search Results (Your Reference: N-Y9024.00)

Please find attached the search results for QLD Contaminated Land Search.

Search Criteria: 356/SP230904
Your Reference: N-Y9024.00
CONFIRM Reference: 83733855

Please contact CITEC Confirm Service Centre on 1800 773 773 between AEST 8:00am - 6:00pm or email: confirm@citec.com.au if you require any assistance.

Thank you for choosing CITEC Confirm

SITE ASSESSMENT

1. Site Identification

Northern part of Lot 356 on MCH 4532 (approximately the central third of the lot).

2. Ownership

Gympie City Council (freehold).

3. Current Land Use

Public access open space.

4. Proposed Land Use

Extension of Mining Museum park.

5. Site History

From information supplied by the Mining Museum the area was originally a part of the Scottish mine and the old mine shaft is still extant at the western part of the site. A copy of a 1910 map shows the location of the Scottish mine. It shows that the tailings areas which extended down into the area currently occupied by the Mining Museum and park on the southern side of the Brisbane Road (Appendix 1).

Comparison of current and old maps shows that the Langton Road was relocated after 1910. The Scottish mine closed after the gold mining boom subsided and from the early 1950's onwards there was some reworking of the old tailings by the Rungees Brothers. This operation was fairly small scale in comparison to the Scottish mine and used cyanidation rather than the mercury amalgamation process to extract the gold.

The small stamper battery used by the Rungee Brothers is still on site. It is understood that the Rungee Brothers operation closed down during the late 1960's.

Other features on the site include the old retort house which has been restored and which the Gympie City Council proposed to open to the public as an extension to the Mining Museum. An old mercury tank is also present on the site.

6. Site Inspection

The site investigated to date is approximately triangular in area and represents approximately the central portion of Lot 356 on MCH 4532.

The retort house, where gold was separated from the mercury, is listed by the National Trust. The retort house is at a high point on the site and the ground surrounding that is fairly barren. From there, the site slopes downwards and most of the area of the site is well covered by grass and undergrowth with a number of small trees.

The low point on the site is the lagoon with dense rushes around it. On some sandy areas of the site where there isn't grass, surface salt like deposits were noticeable. The appearance was somewhat similar to that seen in Mt Isa where evaporation has brought salt into the surface (in some cases carrying heavy metals although not always).

7. Initial Site Investigation and Testing

Sampling locations and analytical results are presented in Appendix 1.

Surface soil samples were taken from six (6) points and analysed for CN, Hg and As.

These initial samples showed elevated levels of Hg and As and it was decided further investigation was required.

8. Detailed Investigation and Risk Assessment

Samples were taken at 20m intervals around the perimeter of the area and around the lagoon so that in total 38 surface soil samples were collected.

Analysis showed CN to be present in only minor amounts (<0.1 to 0.4 ppm) and below the investigation threshold 25 free, 250 complex. It is therefore not a significant contaminant at this site.

Elevated levels of As are uniformly distributed over the site (range 55 - 1070 ppm, average 577 - ppm).

This is in keeping with the As being arsenopyrite, associated with the gold bearing ores.

The presence of Hg over the site at levels contaminated above background indicate this contaminant introduced during processing of gold ore is widely distributed. The range found was 0.1- 18.8 ppm, arithmetic average 7 ppm.

9. Surface Water

Water from the lagoon was tested.

10. Groundwater

Groundwater testing was not conducted as contaminants are bound to soil and would not be expected to leach into groundwater.

11. Conclusions

Based on these investigations and risk assessment (Appendix 3) for a land use of low visitation, this site is considered suitable for development as a tourist area with appropriate design and management.

An uncertainty in this assessment relates to the adequacy of site testing. The samples taken were not uniformly distributed and sizeable areas of the site were not tested.

The conservative assumptions in the health risk assessment and the proposed development of the site mitigate against any potential problems this uncertainty may present.

12. Site Management Proposal

Although risks of chronic exposure to As or Hg would not be expected for infrequent visitors to the area, the potential for exposure can be reduced by:

- (a) Paving areas where vehicles or pedestrian traffic would damage grass cover and generate contaminated dust.
- (b) Viewing of the retort house.
- (c) Cover the Hg tank.
- (d) Lagoon be signposted as "Not suitable for drinking or swimming".
- (e) It has been said that locals take tailings from the lower part of the site as topsoil for gardens. This should be discouraged.
- (f) The area be listed in the Contaminated Sites Register as 'Restricted' - public open space (or equivalent after discussion with Gympie City Council over its zoning categories).

Appendix 1 - Sketch Map of Site

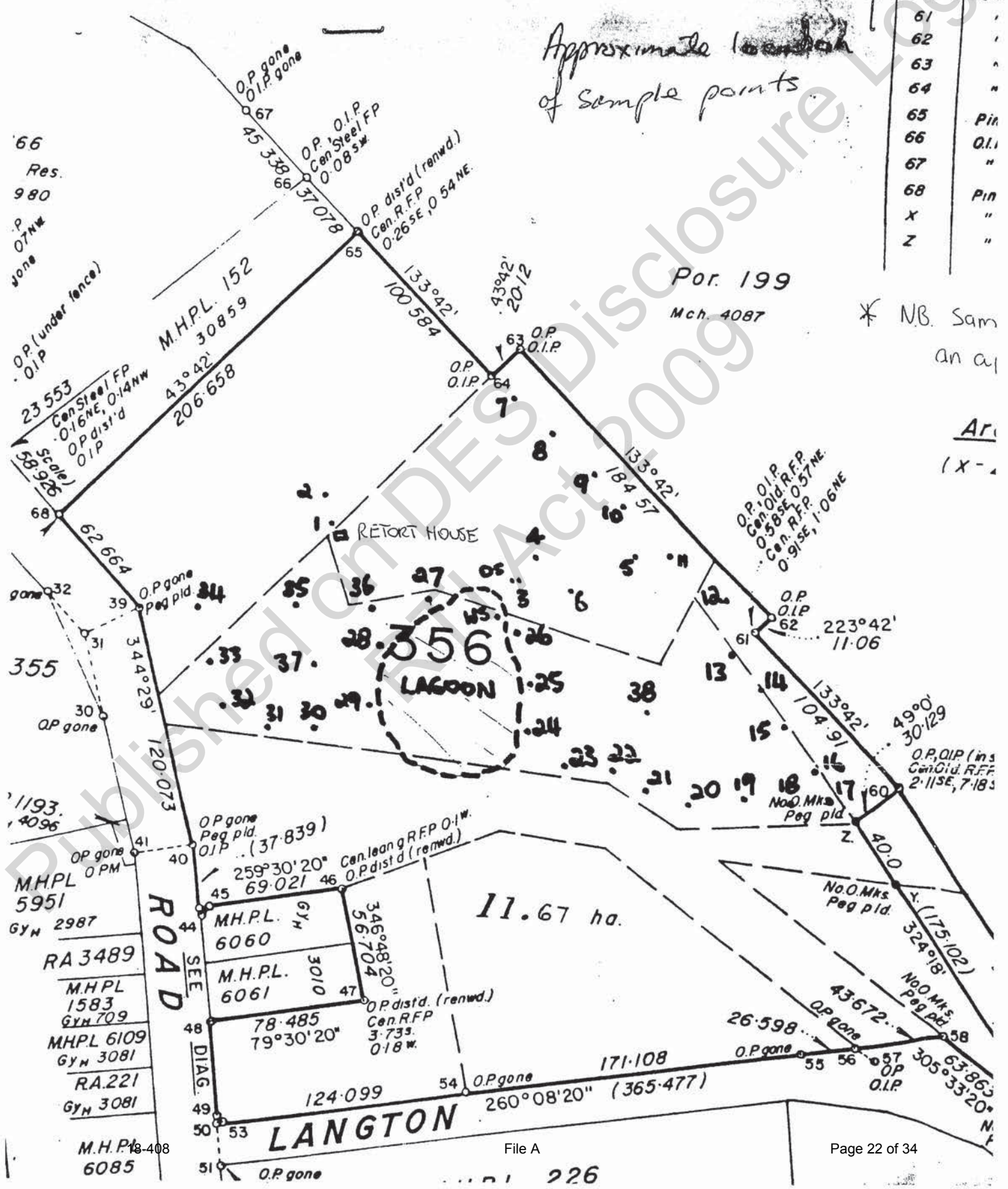
Showing sampling locations and features

Approximate location of sample points

61	
62	
63	
64	"
65	Pin
66	O.I.P.
67	"
68	Pin
X	"
Z	"

* NB. Sam an a

Ar (X -



-5-

Appendix 2 - Analytical Results

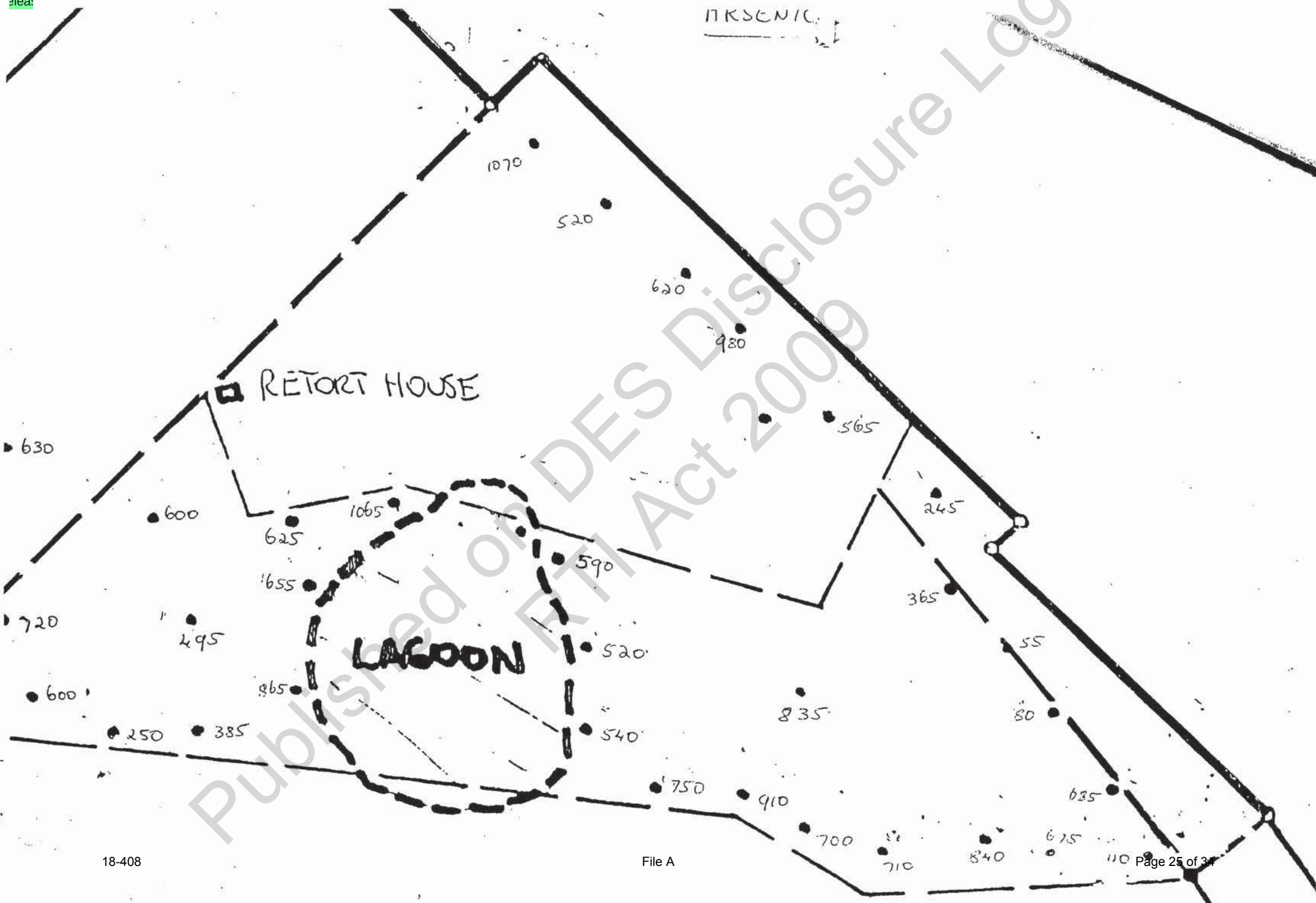
Published on DES Disclosure Log
RTI Act 2009

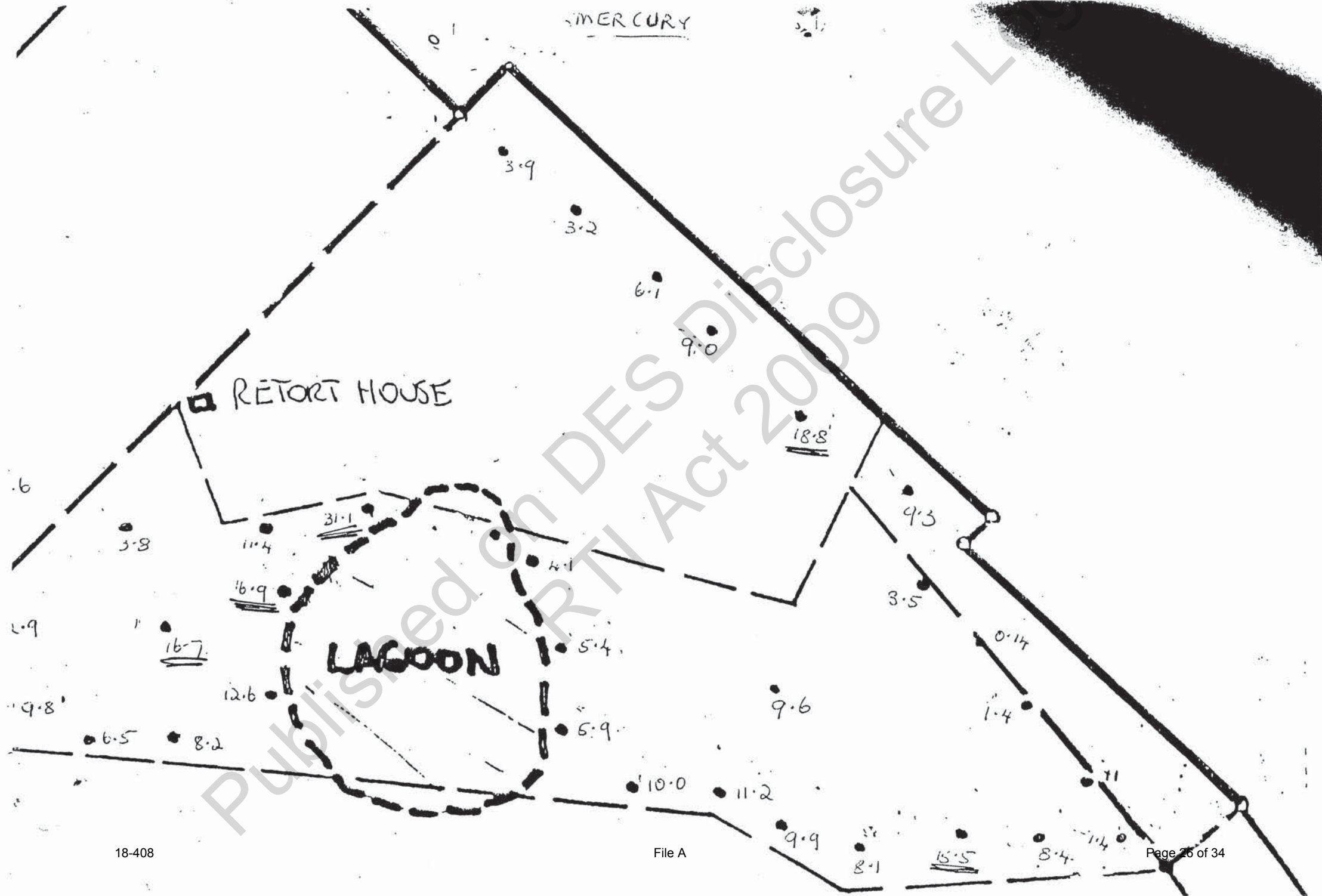
L YANIL L

RETORT HOUSE

LAGOON

NRSEVIC





Appendix 3 - Risk Assessment

Exposure may be estimated

$$\text{Exposure} = \frac{\text{CS} \times \text{SI} \times \text{EF} \times \text{AF}}{\text{BW} \times 1,000,000} \quad \text{mg/kg/d}$$

Where

CS	=	concentration of contaminant in soil	(mg/kg = ppm)
SI	=	soil ingestion	(mg/d)
AF	=	absorption factor	(ratio)
EF	=	exposure factor	(ratio)
BW	=	body weight	(kg)

Arsenic

World Health Organization - Provisional Tolerable Weekly Intake for Arsenic is 0.015 mg/kg. This is equivalent to an acceptable daily intake of 0.002 mg/kg.

The NHMRC Market Basket Surveys estimate exposure to contaminants from food and water.

For As 45% - 47% of the acceptable intake is taken up by dietary exposure.

Soil ingestion:	One - five year old	100 mg/d
	adults and older children	50 mg/d

(R. Taylor in Health Risk Assessment and Management of Contaminated Sites, SA Health Commission 1991.)

Absorption Factor: 100% for Na arsenite/arsenate. If arsenic here is arsenopyrite bioavailability is expected to be less than this but 100% bioavailability is the 'worst case' assumption.

Environmental investigation threshold	20 ppm
Health based investigation threshold	100 ppm

Samples number seven to 26 had range 55 to 1070 ppm.
Arithmetic average of these 20 samples 576.5 ppm.

For a two year old child of 10 kg body weight ingesting 100 mg soil/day and spending three hours per week on the site (assuming 100% bioavailable As).

$$\begin{aligned} \text{Exposure} &= \frac{577 \times 100 \times .018}{10 \times 10^6} \\ &= 0.1 \mu\text{g/kg/d} \end{aligned}$$

This is about 5% of the acceptable daily exposure.

Mercury (Hg)

Originally mercury was used as elemental Hg however, in the environment there is interconversion between elemental, inorganic and organic Hg.

The World Health Organization Provisional Tolerable Weekly Intake for Hg is 0.3 mg total Hg = 5 µg/kg including a maximum of 3.3 µg/kg methyl mercury.

This is equivalent to a daily intake of 0.7 µg/kg/d.

From four samples from this site analysed for methyl Hg it was 0.6, 3.6, 20.9 and 9.5% of total Hg.

Sample numbers seven to 26 had range 0.14 to 18.8 ppm arithmetic mean 7.3 ppm (of those 20 samples) Environmental Investigation threshold = 1 ppm.

For a two year old child of 10 kg body weight, ingesting 100 mg soil a day and spending three hours per week on the site.

$$\begin{aligned} \text{Exposure} &= \frac{7 \times 100 \times .018}{10 \times 10^6} \\ &= 0.00126 \mu\text{g/kg/d} \end{aligned}$$

This is approximately 0.2% of acceptable daily exposure.

Cyanide (CN)

CN values determined were from less than 0.1 ppm to 0.4 ppm.

The investigation thresholds for cyanide are 25 ppm free, 250 ppm complex total.

Cyanide in the soil at this site would be expected to be complexed with iron and values are far below investigation thresholds. It is not a concern on this site.

f:\contam\le'conner\misc\monkland.rpt

Lot:	356	Plan:	MCH4532	Category:	RES	CSR Cont Site ID:	143-1
Local Authority:	GYMPIE CITY	Entry Date:	20/06/1991	MR Alter Date:	13/12/1995		
Site Name:	MONKLAND SCOTTIS	Prescribed Purpose:	MINING AND EXTRACTIVE INDUSTRY				
Location Street:	BRISBANE ROAD						
Location Suburb:	GYMPIE	Post Code:	4570	Contsite File:	900013	Officer:	IMRAY
Owner Address:	GYMPIE CITY COUNCI			Current Use:	910	Past Use:	812
	P.O. BOX 195			DNR Parcel Status:	D	Contaminant:	As, CN1, CN2, Hg
	GYMPIE			Prev Lot No:	356		
		Post Code:	4570	Prev Plan No:	MCH4532		
				Zoning:	REC	Area:	0
				UXO Region:		Cont Grid Water:	U
Comments:	RESTRICTED PUBLIC OPEN SPACE. SITE OF GOLD MINE AND BATTERY.SI013PP CODE UPDATED VIA SQL FROM 8xx to 811. AGD 21.8.96PP CODE UPDATED VIA SQL FROM 8xx to 811. AGD 21.8.96						
Rec Status:		Deleted Reason:					
Deleted Date:							

[Copyright](#) | [Disclaimer](#) | [Privacy](#)

© The State of Queensland (Environment and Resource Management) 2015.

Release

**Department of Environment and Resource Management**

EMR/CLR Environmental Management Register and Contaminated Land Register

1.4

[Home](#)[-] **Reg Site**

- [Find](#)
- [Add](#)
- [Log Enquiry](#)
- [+] [Dataload](#)

[-] **Searches**

- [Perform Search](#)
- [Perform Bulk Search](#)
- [Trans Inquiry](#)
- [Maintain Clients](#)
- [Merge Clients](#)
- [Print Search Response](#)

[+] **Historical**[-] **Reports**

- [Print Notices](#)
- [-] **Searches**
 - [Counts](#)
 - [Responses](#)
 - [Enquiry audit](#)
- [-] **Statistical**
 - [LGA](#)
 - [Notifiable Activity](#)
- [-] **Summary**
 - [Changes to Site Category](#)
 - [Site Change - LGA](#)
 - [Sites in EMR/CLR \(LGA\)](#)
 - [Site Summary](#)

[+] **AMA/AN**[+] **Admin**[+] **Help**[Log Off](#)**Registered Site - Show Site**

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Site Management	Show Docs
--------------------------	--------------------------	---------------------------	-----------------------------	-----------------------------	-----------------------------	---------------------------------	---------------------------

DERM

SITE REPORT

Date Generated:08/05/2015

EMM7040 V1.1.0

EMR

Lot:	356	Plan:	MCH4532
Category:	MANAGED		
LGA:	Gympie Regional Council		
Site Name:	MONKLAND SCOTTISH GYMPIE MINE		
Street:	BRISBANE ROAD		
Suburb:	GYMPIE	Post Code:	4570
Owner:	GYMPIE CITY COUNCIL		
Address:	P.O. BOX 195		
	GYMPIE		
Post Code:	4570		

Rec Type:	BP	ID:	8878
Region:		Hist. ID:	143-1
AMA/AN:			
Notified By:	DATA CONV	Notif. Rec'd:	
Entry Date:	27/06/1998	Last Altered Date:	
File:	900013		
Officer:	IMRAY		
Parcel Status:	D	Area:	0 m2

External References**Hazardous Contaminants****Notifiable Activities**

MINERAL PROCESSING

Emailed SARA 19/3/15

Great state. Great opportunity.



SARA technical agency assessment response

Technical agency (TA) — The Department of Environment and Heritage Protection

DSDIP reference: SPD-0315-015790
 DSDIP Role: referral agency
 DSDIP regional office: SARA Wide Bay Burnett
 DSDIP email: NBBSARA@dsdip.qld.gov.au
 [NB. All responses are to be returned to this email address]
 TA reference: 352567
 TA contact name: Leesa Kelly
 TA contact details: 07 3330 5616
 TA approver: Kelly Gleeson

1.0 Application details

Street address: Langton - Monkland, Gympie Regional - QLD
 Lot on plan: 191 CP910156
 Local government area: Gympie Regional
 Applicant name: Opus International Consultants Pty Ltd
 Applicant contact details: s.73 irrelevant information

2.0 Aspects of development and type of approval granted

Permissible change

3.0 Matters of interest to the state

The development application has the following matters of interest to the state under the following provisions of the Sustainable Planning Regulation 2009¹:

Schedule 6 Assessment manager for development applications and Schedule 7 Referral agencies and their jurisdictions — matters of interest specific to technical agency

¹ MyDAS does not collect data on assessable development aspects under Schedule 3—this is a matter confirmed by DSDIP during the validation process.

4.0 Request by applicant to change development approval—relevant entity

- 5.1. DSDIP received a copy of a request from the applicant on 04 March 2015 under section 372 of the *Sustainable Planning Act 2009*. The applicant has made a written request to the responsible entity for a permissible change to the responsible entity's decision notice
- 5.2. The development permits reconfiguring a lot – subdivision to create 11 additional lots.
- 5.3. Our department has no objection to the change being made.

The reasons for this decision are:

- The proposed change relates to adjustments to proposed allotment boundaries, increased lot yield, narrower road reserve and does not impact on the provisions in relation to contaminated lands.

Findings on material questions of fact:

- The site (Lot 191 on CP910156 base Lot) is on the Department's Environmental Management Register (EMR) for past mineral processing activities as the site stored historical batter sands and tailings from this activity.

5.0 Endorsement

Officer	Leesa Kelly	Environmental Officer	s.73 irrelevant information	18/3/15
Approver	Kelly Gleeson	Manager		18/3/15

Date : 20/05/2015 12:06:38 PM
From : "BROWN Josh (EHP)"
To : "irrelevant.inform@opus.com.au"
Cc : "EMR CLR Registry"
Subject : Gympie Old Scottish Mine Site

Dear **vant in**

Thankyou for your enquiry regarding the site management plan for Lot 356 on MCH4532. It has been found that no site management plan has been approved over the site. Work conducted on site must still comply with the provisions of the Environmental Protection Act 1994, for example contaminated soil may only be disposed of off-site by using a soil disposal permit.

In the interest of workplace health and safety, it may be of use to request historical site reports from the site owner (Gympie City Council) or from the State Government through a right to information request: <http://www.rti.qld.gov.au/>

Yours sincerely,

Josh Brown
Environmental Officer
Waste and Contaminated Land Assessment
Environment and Heritage Protection
Ph: 07-3339-5842
Em: josh.brown@ehp.qld.gov.au