

Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of a decision for your application for a soil disposal permit, and your review and appeal rights.

Our Reference: 193530 & BNE38747

John Holland Queensland Pty Ltd

PO Box 556

Fortitude Valley QLD 4006

Attn: [s.73 Irrelevant information] Project Manager (e-mail – [s.73 Irrelevant information]@jhq.com.au)

Re: Application to remove and dispose of contaminated soil from 175 Bowen Street, Fortitude Valley QLD (Lot 4 on SP128032)

Decision

The administering authority has considered your application received on 12 June 2013 and has decided to grant the application, but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision whether to grant or refuse the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal, treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

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Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

Information considered by the administering authority in making its determination

Information provided in the application submitted by Pentair Water Solutions Pty Ltd on 12 June 2013 including:

- Part A and B application forms.
- Analysis Results.
- Letter of acceptance dated 09 July 2013 provided by Transpacific Waste Management that states they are willing to accept approximately 150m³ of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to 100 Chum Street, New Chum (Lots 268 & 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act in accordance with section 521 of the EP Act the application must be:

1. Made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application;
2. Made to the administering authority in the approved form 'Application for internal review of an original decision' (EM219), which is available www.ehp.qld.gov.au using the publication number EM219 as a search term. The completed form must be sent to the address on the form; and
3. be supported by enough information to enable the authority to decide the application.

For more information see the [Information sheet: Internal review and appeal to Planning and Environment Court](#).

An application to review a decision does not stay the original decision. If you apply for an internal review of this decision you can also apply to the chief executive (using the same form) or the Queensland Civil and Administrative Tribunal (using form 44: Application to stay a decision, available at www.qcat.qld.gov.au for a stay of the original decision.

Sections 519-522 of the *Environmental Protection Act 1994* cover the internal review process.

Sections 531-539 of the *Environmental Protection Act 1994* cover the appeal to Court process.

Should you have any questions in relation to this matter, please contact Waste and Contamination Assessment at WLCA@ehp.qld.gov.au

Notice of decision to grant a soil disposal permit with conditions

s.73 Irrelevant information

Signature

17/7/13

Date

Enquiries:

Ben Willey – Ph (07) 3181 2429

Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection

Level 9, 400 George Street

GPO Box 2454

Brisbane QLD 4001

Phone 13 QGOV (13 74 68)

Email ben.willey@ehp.qld.gov.au

Allen Johns

Delegate of the administering authority

Environmental Protection Act 1994

Published on DES Disclosure
RTI Act 2009

Extracts from the *Environmental Protection Act 1994* regarding reviews and appeals**Procedure for review****s. 521**

1. A dissatisfied person may apply for a review of an original decision.
2. The application must—
 - a) be made in the approved form to the administering authority within—
 - I. 14 days after the day on which the person receives notice of the original decision or the administering authority is taken to have made the decision (the "review date"); or
 - II. the longer period the authority in special circumstances allows not later than the review date; and
 - b) be supported by enough information to enable the authority to decide the application.
3. On or before making the application, the applicant must send the following documents to the other persons who were given notice of the original decision—
 - a) notice of the application (the "review notice");
 - b) a copy of the application and supporting documents.
4. The review notice must inform the recipient that submission on the application may be made to the administering authority within seven days after the application is made to the authority.
5. If the administering authority is satisfied the applicant has complied with subsection (2) and (3), the authority must, within 14 days after receiving the application—
 - a) review the original decision;
 - b) consider any submissions properly made by a recipient of the review notice; and
 - c) make a decision (the "review decision") to—
 - I. confirm or revoke the original decision; or
 - II. vary the original decision in a way the administering authority considers appropriate.
6. The application does not stay the original decision.
7. The application must not be dealt with by—
 - a) the person who made the original decision; or
 - b) a person in a less senior office than the person who made the original decision.
8. Within 14 days after making the decision, the administering authority must give written notice of the decision to the applicant and persons who were given notice of the original decision.
9. The notice must—
 - a) include the reasons for the review decision; and
 - b) inform the person of their right of appeal against the decision.

Notice of decision to grant a soil disposal permit with conditions

10. If the administering authority does not comply with subsections (5) or (8), the authority is taken to have made a decision confirming the original decision.
11. Subsection (7) applies despite section *Acts Interpretation Act 1954*, section 27A.
12. This section does not apply to an original decision made by—
 - a) for a matter, the administration and enforcement of which has been devolved to a local government, the local government itself or the chief executive officer of the local government personally; or
 - b) for another matter—the chief executive personally.

Stay of operation of original decisions

s. 522

1. If an application is made for review of an original decision, the applicant may immediately apply for a stay of the decision to—
 - a) for an original decision mentioned in schedule 1, part 1 - the tribunal; or
 - b) for an original decision mentioned in schedule 1, part 2 - the Court.
2. The tribunal or Court may stay the decision to secure the effectiveness of the review and any later appeal to the tribunal or Court.
3. A stay may be given on conditions the tribunal or the Court considers appropriate and has effect for the period stated by the tribunal or Court.
4. The period of a stay must not extend past the time when the administering authority reviews the decision and any later period the tribunal or the Court allows the applicant to appeal against the review decision.

Who may appeal

s. 531

1. A dissatisfied person who is dissatisfied with a review decision, other than a review decision to which subdivision 1 applies, may appeal against the decision to the Court.
2. The chief executive may appeal against another administering authority's decision (whether an original or review decision) to the Court.
3. A dissatisfied person who is dissatisfied with an original decision to which section 202 does not apply may appeal against the decision to the Court.

SOIL DISPOSAL PERMIT
Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB04067313

Commencement date: 23 July 2013

Expiry Date: 23 July 2014

Permit holder: John Holland Queensland Pty Ltd

Authorised activity: Removal and disposal of **150m³** of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to 100 Chum Street, New Chum (Lots 268 & 227 on SP103913).

Maximum volume: 150m³

This disposal permit is subject to the attached conditions in Schedule A.

The administering authority provides further information about the removal treatment and disposal of contaminated soil under section 424 of the EP Act on the EHP website at www.ehp.qld.gov.au. This document must be read in conjunction with any permit conditions found in Schedule A.

s.73 Irrelevant information

Signature

17/7/2013.

Date

Enquiries:

Ben Willey – Ph (07) 3181 2429

Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection

Level 9, 400 George Street

GPO Box 2454

Brisbane QLD 4001

Phone 13 QGOV (13 74 68)

Email ben.willey@ehp.qld.gov.au

Allen Johns
Delegate of the administering authority
Environmental Protection Act 1994

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:
 - a. the quantity of material disposed; and
 - b. acceptance receipts from the waste disposal/treatment facility.
2. The permit holder must provide a copy of the permit to any person acting under the permit.
3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

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An application has been received and requires assessment.

General Application Details	
Client Name:	John Holland QLD Pty Ltd
Lot/Plan:	4 SP128032
Project reference:	193530
Address:	175 Bowen Street, Fortitude Valley
Application Type	Soil Disposal Permit
PaLM Contact:	s.73 Irrelevant inform
Department of Environment and Heritage Protection (EHP)	
Ecotrack Application No:	534347
Permit reference:	CLEB04067313
Date Properly made/referred:	11/07/2013
Project Director:	s.73 Irrelevant info
DATE DUE:	25/07/2013
APPLICATION	PO return to EMR/CLR Registry for Action:
EMR/CLR ID: 31053	Date to EMR/CLR Registry / Admin:
PRINT COVER SHEET & SAVE EMAIL TO FOLDER^*	Officer initials:
PRINT PART 1 & 2**	RESPONSE
SAVE ALL PARTS TO FOLDER*	PRINT COPY OF RESPONSE (STAMP "COPY"), ADD TO FILE
ORDERED FILE No: BNE38747-6	SCAN COPY OF RESPONSE, SAVE TO FILE
UPDATE EMR (WITH FILE #)	EMAIL (if Email address provided on application) PERMIT TO CLIENT
UPDATE ECOTRACK (WITH FILE #)	UPDATE EMR WITH DATE & SUMMARY OF RESPONSE
UPDATE WLCA Register and/or EMR/CLR Register	UPDATE ECOTRACK (Decision, Permit Eff. Date, Officer Responsible, Delegate and File ref. no.)
UPDATE CARMS (FILE LOCATION TO PO)	UPLOAD RESPONSE (scanned copy) TO ECOTRACK
FORWARD FILE TO OFFICER	UPDATE WLCA Register and/or EMR/CLR Register
Officer: HB KC SD BG AJ SC	UPDATE CARMS FILE LOCATION
IR DUE DATE: XXXX	DATE CLOSED:

^Print to the 'Bypass Tray' onto yellow paper

*Save to: "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year and month as "Ecotrack Permit Reference #"

**Print only when hard copy is not received to WLCA or EMR/CLR Registry

☐ For Regional Information & Filing

☒ Regional Action Required

Admin. Office: Contaminated Land Unit, Flr 9, 400 George

Project No: 193530

Applic ID: 534347 EMR/CLR ID No. 31053

Permit No. CLEBA067313

App. Rcd. No. 045341

Application for Disposal Permit (Contaminated Land) Checklist

☒	Part A and Part B application forms supplied and complete.
☒	Forms signed and dated
☒	All parts of the forms completed
☒	Letter of acceptance from Landfill etc

Applicant Name: JOHN HOLLAND QLD PTY LTD

Contact Name: s.73 Irrelevant information

Location: 175 BOWEN ST, FORTITUDE VALLEY (4 SP128032)

Co-ordinator: s.73 Irrelevant information

Date Received: 11 / 7 / 20 13

Date Application Deemed Valid: 11 / 7 / 20 13

Due Date (10 business days after application deemed valid): 25 / 7 / 20 13

BNE 38747 -6

Record of consultation

Applicant name:

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

AR 045341

RECEIVED

11 JUL 2013

PALM

Form

Corporate

Part A - General details for all applications**OFFICIAL USE ONLY**

DATE RECEIVED

FILE REF

PROJECT REF

COMPLETE FORM

☐

ENTERED BY [SIGNATURE]

DATE

RECEIPTING DETAILS ONLY

DATE RECEIPTED

RECEIPT NUMBER

AMOUNT RECEIVED

\$

PROCESSED BY (INITIALS AND NAME)

Important information for applicants

This form asks for general applicant details and a description of the proposed project and any associated activities. The completed form must be submitted together with relevant activity specific Part B forms.

Specific details must accompany this form to enable your application to be processed. The guide provided will help you complete your application correctly. If you have any difficulties completing the form, contact Permit and Licence Management on 1300 130 372 (Option 4). Please number all attachments alphabetically (e.g. 'Attachment A').

Commercial and confidential information must be marked clearly. This information will not be disclosed, except where required by law (including the *Right to Information Act 2009*). If subsequent activities are added to the project, you will be required to resubmit this application with details of the additional activity.

Tick relevant boxes below if the applicant(s) are:

- ☐ an individual or sole trader
- ☐ individuals in a partnership
- ☐ individual(s) acting on behalf of an unincorporated organisation
- Go to Section 1
- ☐ an incorporated company
- ☐ an incorporated association
- ☐ a statutory authority
- ☐ a body politic
- Go to Section 2

BNE - 38747

Part A - General details for all applications

Guide**Question 1**

The applicant is the person intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices.

It is the address of a person and cannot be a post office box.

If more than one applicant as part of a partnership, complete the form Joint Applicant Details (EM1863) and attach to this form.

1 Individual applicant(s) details

APPLICANT'S FULL NAME	TITLE	DATE OF BIRTH
-----------------------	-------	---------------

REGISTERED ADDRESS	POST CODE
--------------------	-----------

PHONE	FAX	EMAIL
-------	-----	-------

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)	POST CODE
---	-----------

Guardian details (if applicable)

A parent or legal guardian must complete the following details if an applicant is less than 18 years of age.

GUARDIAN'S FULL NAME	DATE OF BIRTH
----------------------	---------------

GUARDIAN'S REGISTERED ADDRESS	POST CODE
-------------------------------	-----------

GUARDIAN'S SIGNATURE	DATE
----------------------	------

→ Go to Section 3

Part A - General details for all applications

Question 2

The applicant is the registered legal entity (not a business trading name) intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the registered business address of the company making the application and cannot be a post office box.

Enter the Australian Business Number (ABN); or the Australian Company Number (ACN) of the incorporated company; or the Association Number (AN) of the incorporated association; or the title and section of the legislation that gives the statutory corporation its legal status.

2 Applicant details

REGISTERED LEGAL ENTITY NAME

John Holland Queensland Pty Ltd

TRADING NAME (IF APPLICABLE)

John Holland

REGISTERED ADDRESS

John Holland Group Pty Ltd Level 3 1000 Ann Street
Fortitude Valley QLD

POST CODE

4006

PHONE

07 3867 7000

FAX

07 3867 7100

E-MAIL/WEBSITE

<http://www.johnholland.com.au/>

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)

John Holland Building
PO Box 556
Fortitude Valley QLD

POST CODE

4006

ABN/ACN/AN OR TITLE AND SECTION OF LEGISLATION

67133069280

Principal contact or person in charge details

PRINCIPAL CONTACT/PERSON IN CHARGE FULL NAME

s.73 Irrelevant information

TITLE

Mr

POSITION IN CORPORATION

Project Manager

TELEPHONE

07 3358 8713

FASCIMILE

E-MAIL/WEBSITE

s.73 Irrelevant information
@jhg.com.au

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)

POST CODE

Part A - General details for all applications

REGISTERED ADDRESS)

As Above

Authorised signatory

The authorised signatory is the person authorised to sign an application on behalf of a corporation and in doing so declares that the corporation will be bound by the conditions associated with the granting of the licence or permit.

AUTHORIZED SIGNATORY FULL NAME

s.73 Irrelevant information

TITLE

Project Manager

POSITION IN CORPORATION

Senior Project Manager for Idm Holland

3 Project details**Pre-lodgement**

Have you previously attended a pre-lodgement meeting or submitted a pre-lodgement form for this project?

☒ No☐ Yes

PROJECT NUMBER (IF APPLICABLE)

Project description

Briefly describe the proposed activities, works, development or management.

Attach a separate sheet if there is insufficient space below.

DESCRIPTION

The New Farm Riverwalk Replacement Project is comprised of an 800m integral walkway structure supported on 37 no. single piers and two abutments. One section near the downstream end includes a swing bridge which opens to allow private boats to access the Brisbane River. The alignment is similar though not identical to that of the original structure. The Riverwalk connects from the Howard Smith Wharves Precinct to Merthyr Road, New Farm.

Part A - General details for all applications

This information should at least provide enough details to allow a Department of Environment and Heritage Protection officer to locate the site of the proposal.

Give as much information as possible to accurately locate your activity, for example maps with contextual or boundary lines on plan or GPS boundary co-ordinates.

Geographical co-ordinates can include northing/easting, longitude/latitude.

Approvals required

Please list all Part B application forms you are attaching to this form.

APPLICATION FORMS

Project site

Where will the activities be conducted? Provide the street address, real property description(s) of the land(s) in which the project is located and local government area. If you require more space, attach a separate sheet.

STREET ADDRESS

175 Bowen Street, Fortitude Valley QLD 4006

LOT

4

PLAN

SP 128032

LOCAL GOVERNMENT AREA

Brisbane City Council

If possible, provide a specific location within a protected area, a property name or an attached map with the project area clearly delineated. Also include the map name/details.

SPECIFIC LOCATION/PROPERTY NAME

175 Bowen Street, Howard Smith Wharves, Fortitude Valley QLD 4006 - Attachment A

PROTECTED AREA

N/A

GEOGRAPHICAL CO-ORDINATES

Part A - General details for all applications

Label all attachments alphabetically
(e.g. 'Attachment A')

Attachments

List all attached documents, including maps containing information supporting this application in the space below. If there are no attachments mark "N/A."

ATTACHMENTS (LABEL ALL ATTACHMENTS ALPHABETICALLY – E.G. "ATTACHMENT A")

Attachment A - Howard Smith Wharves Location

Attachment B – Transpacific Acceptance Letter

Attachment C – Soil Test Sample Location Map

Attachment D – Tabulated Soil Analysis

Attachment E – ALS Soil Test Analysis

Attachment F – Brisbane City Council Certificate of Title to the land

Attachment G – Soil Sample Methodology

Attachment H – ALS Chain of Custody

Privacy statement

The Department of Environment and Heritage Protection is committed to protecting the privacy, accuracy and security of your personal information in accordance with the *Information Privacy Act 2009*. The department is collecting your personal information in accordance with the Act specified in the relevant Part B form in order to process your application. The information will only be accessed by authorised employees within the department. Some of this information may be given to another department or agency as indicated in the privacy statement on the relevant Part B form. Your information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the *Right to Information Act 2009* and *Evidence Act 1977*. For queries about privacy matters email: AdminReview@ehp.qld.gov.au or telephone: (07) 3896 3705.

Further Information

The latest version of this publication can be found at www.ehp.qld.gov.au. Note: where available, the publication number (e.g. EM1124 for this document) can be used as a search term.

4 Applicant's certification

If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

APPLICANT (1) SIGNATURE

s.73 Irrelevant

s.73 Irrelevant information

Joint applicant signatures (if applicable)

APPLICANT(2) SIGNATURE

APPLICANT(3) SIGNATURE

APPLICANT(4) SIGNATURE

APPLICANT(5) SIGNATURE

DATE

09/07/13

Complete the following checklist.

- ☒ Application form(s) signed and completed
- ☐ Permit fees paid or enclosed (if applicable)
- ☒ Supporting information attached (e.g. maps)

Please return your completed application to:

Permit and Licence Management
Implementation Support Unit
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane Queensland 4001

Enquiries: 1300 130 372 (Option 4)

Fax: (07) 3330 5875

Email: palm@ehp.qld.gov.au

Form

Contaminated land

Part B - Application for contaminated soil disposal permit

This is the approved form for making an application to the administering authority for a disposal permit to treat or dispose of contaminated soil from land recorded in the environmental management register (EMR) or contaminated land register (CLR) under s. 424 of the Environmental Protection Act 1994 (EP Act).

This form should be completed and forwarded to the administering authority with the form Part A - General Details for all Applicants (EM1124¹).

For more information about soil disposal permits see the Guideline for Contaminated Land Professionals, available on the EHP website: <www.ehp.qld.gov.au>

1 Site information

1.1 Site location

Please provide details of site(s) the soil is proposed to be removed from

List any attachments provided.

FULL STREET ADDRESS OF SITE(S) 175 Bowen Street, Fortitude Valley QLD 4006	
LOT(S) 4	PLAN(S) SP 128032
LOCAL GOVERNMENT AREA Brisbane City Council	
ATTACHMENTS Attachment A – Howard Smith Wharves Project Location	

1.2 Site investigation

Has a site investigation report been submitted to the Department of Environment and Heritage Protection (EHP)? If yes please provide a project reference or file number.

☒ NO ☐ YES EHP project reference or file number)

1.3 Certificate of Title

Please provide a copy of the current Certificate of Title to the land

¹ This is the publication number, which can be used as a search term to find the latest version of the publication at <www.ehp.qld.gov.au>.

Part B - Application for contaminated soil disposal permit

- ☒ Enclosed with this application ☐ Submitted previously to EHP as part of a site investigation/validation report

1.4 Is the site currently recorded in the environmental management register or contaminated land register because the land has been used for a notifiable activity or has been contaminated by a hazardous contaminate?

- ☒ YES ☐ NO (If no, the owner or occupier of the land must submit a notification form to the administering authority, under chapter 371 of the EP Act)

2 Soil removal and disposal

2.1 Soil volume

What is the approximate volume (in cubic metres) of soil to be removed (allowing for excavation bulking)? Over estimate the amount as a new permit will be required if the limit is reached before the disposal is complete.

150m³ of vegetation with soil amongst roots.

2.2 Disposal period

What are the dates between which soil is proposed to be moved to the disposal location?

FROM DATE: 23/07/2013	TO DATE: 08/08/2013
--------------------------	------------------------

Note: In accordance with section 424(7) of the EP Act soil disposal permits only authorise the disposal of soil for the term stated on the disposal permit.

2.3 Disposal location

What is the proposed disposal location?

Note: you must provide written acceptance of local government or registered owner of the site to receive the soil. If the soil is being disposed at a non local government administered landfill you must also provide a copy of the Certificate of Title

- (a) ☐ Proposed to dispose of soil at local government administered landfill site

NAME AND ADDRESS OF LOCAL GOVERNMENT ADMINISTERED LANDFILL

- ☐ Written acceptance from the local government is enclosed

- (b) ☒ Proposed to dispose of soil at a non local government-administered landfill

LOT(S) 268 & 227

PLAN(S) SP 103913

FULL STREET ADDRESS OF SITE(S)

100 Chum Street, New Chum QLD 4303

Part B - Application for contaminated soil disposal permit

- ☒ Written acceptance from registered owner of site is enclosed with this application, stating the amount of soil and the type of contaminants present in the soil the non-government landfill has agreed to accept.

(c) ☐ Proposed to remove soil to another parcel of land on the EMR or CLR

LOT(S)	PLAN(S)
FULL STREET ADDRESS OF SITE(S)	

- ☐ Accepting land is listed on the EMR or CLR
- ☐ Written acceptance from registered owner of site is enclosed with this application, stating the amount of soil and the type of contaminants present in the soil the site owner has agreed to accept.

3 Supporting information

3.1 Management options

Disposal to landfill should only be considered where no other method of dealing with the contaminated soil is available / viable.

State reason(s) why on-site treatment or management is not proposed.

The stockpile of vegetation remaining on sites poses a number of environmental and safety hazards.

The vegetation pile poses an environmental hazard, with the site beside the Brisbane River; the risk of runoff into the Brisbane River will increase with the upcoming Wet season.

The pile can be swept away during a flood event.

The pile poses a safety risk, it has the potential to provide habitat for vermin/ nuisance animals such as snakes, rats and mice which will impact surrounding residential properties and work crew.

If the vegetation remains in the pile for the duration of the project, there is the risk of the pile spontaneously combusting due to heat trapped within.

The vegetation pile is an obstruction of view, for Brisbane Police Force inspecting the site (every morning) for anyone who has fallen/jumped off the cliffs.

3.2 Is it proposed to undertake validation sampling to confirm that all soil has been removed?

- ☒ NO ☐ YES

3.3 Provide a description of the contamination present in the soil to be removed

Vegetation is to be removed from Site. Soil within the root zone of the vegetation has zinc levels exceeding the Ecological Investigation Levels. All metals and Hydrocarbons were within Health-Based Investigation Levels E – Parks, recreational open space and playing fields; including secondary schools.

3.4 Please tick relevant boxes below to indicate that you have attached the following information with this application and list the relevant attachments. If a site investigation

Part B - Application for contaminated soil disposal permit

report has been or is being submitted to the administering authority, refer to the relevant sections of that report.

Required information	Attachment name / number and section
☒ Scaled plan showing soil sampling locations and contamination source(s)	Attachment C – Soil Test Sample Location Map
☒ Tabulation of soil analysis results	Attachment D – Tabulated Soil Analysis
☐ Toxicity Characteristic Leaching Procedure (TCLP) results from relevant soil samples	
☒ Copies of all laboratory reports and sample receipt advices for all soil analysis	Attachment E – ALS Soil Test Analysis Attachment G – ALS Chain of Custody
☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained	Attachment F – Soil Sample Methodology

Declaration

Note: If you do not tell the truth in this application you may be liable for prosecution under the relevant legislation.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under s480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know to be false, misleading or incomplete in a material particular; and
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

APPLICANT'S NAME John McDonnell	PRINT NAME OF APPOINTED SIGNATORY (IF APPLICABLE)
------------------------------------	---

APPLICANT'S SIGNATURE/APPOINTED SIGNATORY s.73 Irrelevant information	DATE 09/07/13
--	------------------

4 Applicant checklist

Required	Not Applicable	
☒	☐	Part A form completed
☒	☐	All sections of the form have been completed
☒	☐	Letter of acceptance from landfill attached (if required).
☒	☐	Application form(s) signed and dated
☒	☐	Supporting information attached
☒	☐	Completed notification of land form (if the originating site is not listed on the EMR or CLR).

Part B - Application for contaminated soil disposal permit

Please return your completed application kit to:

Permit and Licence Management
Implementation and Support Unit
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane Queensland 4001
Enquiries: **1300 130 372 (Option 4)**
Email: palm@ehp.qld.gov.au

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Attachment A – Howard Smith Wharves Project Location

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Project Site

Attachment B – Transpacific Acceptance Letter

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RTI Act 2009



Solid Waste Division

Transpacific Waste Management
ABN: 55 120 175 635

100 Chum Street
New Chum QLD 4303
PO Box 384
BOOVAL FAIR QLD 4304
Phone: + 07 3816 2166
Fax: + 07 3816 3055

9th July 2013

ATTENTION: [s.73 Irrelevant inform]
Environmental Graduate, Infrastructure North, John Holland Group

Dear [s.73 Irrelevant]

RE: Howard Smith Wharves 175 Bowen Terrace, Fortitude Valley QLD 4006. Lot 4 on Plan SP 128032

Following your email correspondence and provision of laboratory results, I consider we are able to accept approximately **150m3 of contaminated soil for disposal to our Single Lined cell 5**

A condition of this acceptance letter being issued is that the applicant must inform Landfill Management of the dates that the contaminated soil will be transported to the landfill.

We consider that this material will fall within the acceptance criteria of Transpacific Waste Management's DEHP Licence. Our DEHP licence number is EPPR00445713, Lot 268 on SP103913 and Lot 227 on SP103913. If you require any additional information please do not hesitate to contact the undersigned on (07) 3816 2166.

Yours sincerely,

[s.73 Irrelevant inform]

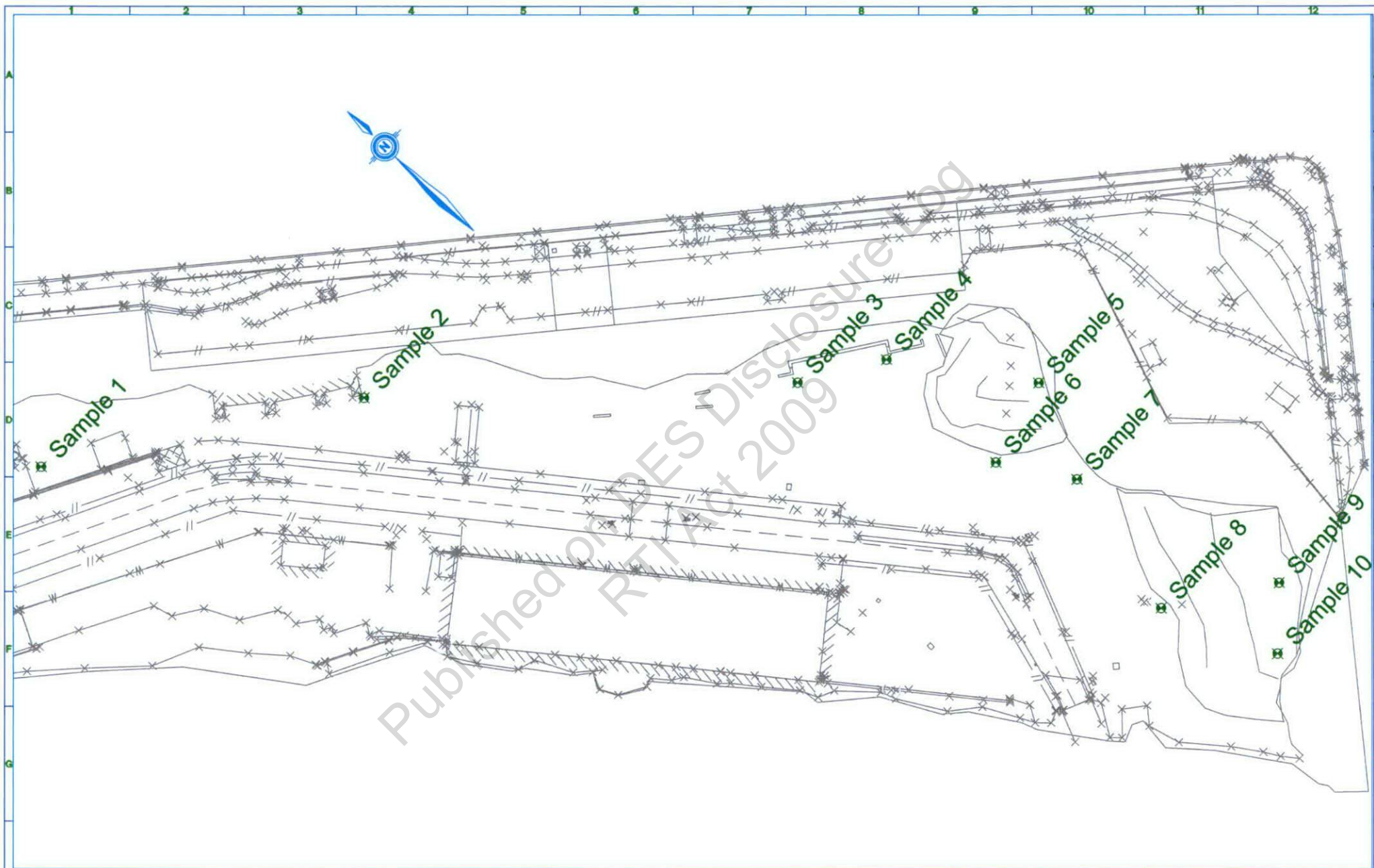
Environmental/Technical Manager

[s.73 Irrelevant information]

Head Office: 1st Floor 159 Coronation Drive Milton QLD 4064 Australia

Attachment C – Soil Test Sample Location Map

Published on DES Disclosure Log
RTI Act 2009



Pacific Survey
 146 Settlement Point Road, Port Macquarie, NSW 2444
 PO Box 2506, Port Macquarie, NSW 2444
 Tel: 08 9398 2222 Fax: 08 9398 2100
 www.pacificsurvey.com.au



NEW FARM RIVERWALK REPLACEMENT PROJECT

File C



CLIENT: JOHN HOLLAND		DATE: 09/07/13
SURVEYED: LM	FIELD BOOK:	SCALE: 1 : 500
DRAWN: LM	CHECKED:	
HORIZONTAL DATUM: BGD GSD (GD48/SC4803)		LEVEL DATUM: AND

DESCRIPTION:
 SOIL TEST SAMPLE
 LOCATIONS

Attachment D – Tabulated Soil Analysis

Published on DES Disclosure Log
RTI Act 2009

CURRENT TITLE SEARCH

DEPT OF NATURAL RESOURCES AND MINES, QUEENSLAND

Request No: 14538199

Search Date: 29/08/2012 12:11

Title Reference: 50323249

Date Created: 31/07/2000

Previous Title: 40025609

REGISTERED OWNER

Dealing No: 707890862 14/07/2004

BRISBANE CITY COUNCIL

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES

Dealing	Type	Lodgement Date	Status
713597367	HERITGE SITE	30/11/2010 11:14	CURRENT
QUEENSLAND HERITAGE ACT 1992			

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Current Title Search **

COPYRIGHT THE STATE OF QUEENSLAND (DEPT OF NATURAL RESOURCES AND MINES) [2012]
Requested By: D APPLICATIONS CITEC CONFIRM

Attachment G – Soil Sample Methodology

Ten soil samples were taken, within the eastern end of the site.

Samples were taken from a 20cm soil profile, wearing disposable gloves. The sides of the profile were scraped off by hand to avoid contaminants from digging equipment.

Samples were placed within an eski and immediately taken to the ALS Laboratory for analysis, as per ALS Laboratory sampling procedure.

Published on DES Disclosure Log
RTI Act 2009

Attachment H – ALS Chain of Custody

Published on DES Disclosure Log
RTI Act 2009



CHAIN OF CUSTODY

ALS Laboratory: please tick →

Level 3 1000 Am St

□ Sydney: 277 Macquarie Rd, Smithfield NSW 1510
Ph: 02 6784 6555 E: samples@sydney.als.com.au

□ Newcastle: 3 Roseglen Rd, Waratah NSW 2304
Ph: 02 4950 0520 E: samples@newcastle.als.com.au

□ Brisbane: 22 St Marks St, St Marks QLD 4005
Ph: 07 3245 7222 E: samples@brisbane.als.com.au

□ Townsville: 14-15 Evans St, Southport QLD 4810
Ph: 07 4750 0520 E: samples@townsville.als.com.au

□ Melbourne: 2-4 Westall Rd, Springvale VIC 3171
Ph: 03 9540 9600 E: samples@melbourne.als.com.au

□ Adelaide: 2-1 Blinn Rd, Macclesfield SA 5095
Ph: 08 8359 0846 E: samples@adelaide.als.com.au

□ Perth: 10-140 Wray, Mandurah WA 6050
Ph: 08 9209 7055 E: samples@perth.als.com.au

□ Launceston: 27 Wellington St, Launceston TAS 7250
Ph: 03 6331 2156 E: samples@launceston.als.com.au

CLIENT: John Holland Group		TURNAROUND REQUIREMENTS: ☐ Standard TAT (List due date): 25/6/13 (Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Howard Smith Wharves (under bridge)		ALS QUOTE NO.:		COC SEQUENCE NUMBER (Circle)	
PROJECT: New Farm River Walk Replacement Project				COC: 1 2 3 4 5 6 7	
ORDER NUMBER:				OF: 1 2 3 4 5 6 7	
PROJECT MANAGER: s.73 Irrelevant information		CONTACT PH: s.73 Irrelevant information		RECEIVED BY: s.73 Irrelevant information	
SAMPLER: s.73 Irrelevant information		SAMPLER MOBILE: s.73 Irrelevant information		RELINQUISHED BY: s.73 Irrelevant information	
COC emailed to ALST (YES / NO):		EDD FORMAT (or default): s.73 Irrelevant information		DATE/TIME: 18/6 1335	
Email Reports to (will default to PM if no other addresses are listed):		@jhg.com.au		DATE/TIME: 18/6 1335	
Email Invoice to (will default to PM if no other addresses are listed):				DATE/TIME:	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL: Test TRH (CG-C40)/BTEXIN plus 8 metals

ALS USE ONLY		SAMPLE DETAILS MATRIX: Solid(S) Water(W)		CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB, Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)		Additional Information	
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.	
1	Sample 1				✓				
2	Sample 2				✓				
3	Sample 3				✓				
4	Sample 4				✓				
5	Sample 5				✓				
6	Sample 6				✓				
7	Sample 7				✓				
8	Sample 8				✓				
9	Sample 9				✓				
10	Sample 10				✓				
TOTAL									

Environmental Division
Brisbane

s.73 Irrelevant Work Order s.73 Irrelevant

EB1314646



Telephone : + 61-7-3243 7222

Water Containing: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Bisulphate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass,
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASD = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag

Analyte grouping/Analyte		Units	LOR	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Hill EL - 1000 ft. - 14000 ft.	
EA055: Moisture Content															
Moisture Content (dried @ 103°C)		%	1.0	16.0	16.9	12.3	12.9	13.4	18.4	7.9	11.1	9.2	10.6		
EG057: Total Metals by ICP-AES															
Arsenic		mg/kg	5	8	18	10	12	16	10	9	10	13	12	20	200
Cadmium		mg/kg	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	3	40
Chromium		mg/kg	2	14	18	19	13	17	15	6	7	13	12	100	200
Copper		mg/kg	5	43	69	35	38	44	36	32	24	32	32	100	2000
Lead		mg/kg	5	509	420	363	257	415	140	93	128	186	193	600	600
Nickel		mg/kg	2	10	14	10	9	15	16	11	7	8	9	60	600
Zinc		mg/kg	5	616	1100	504	629	2010	422	360	615	626	649	200	14000
EG0357: Total Recoverable Mercury by FIMS															
Mercury		mg/kg	0.1	0.2	0.9	<0.1	0.1	0.2	0.2	0.1	<0.1	0.1	0.1		
EP080: BTEX															
Benzene		mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	1
Toluene		mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	1
Ethylbenzene		mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	1
meta- & para-Xylene		mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	1
ortho-Xylene		mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	1
EP080: BTEXN															
Sum of BTEX		mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	1
Total Xylenes		mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	1
Naphthalene		mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1
EP080/071: Total Petroleum Hydrocarbons															
C6 - C9 Fraction		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3065	3065
C10 - C14 Fraction		mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	3065	3065
C15 - C28 Fraction		mg/kg	100	130	130	<100	<100	<100	270	<100	<100	<100	<100	3065	3065
C29 - C36 Fraction		mg/kg	100	140	120	<100	<100	<100	270	<100	<100	<100	<100	3065	3065
C10 - C36 Fraction (sum)		mg/kg	50	270	250	<50	<50	<50	540	<50	<50	<50	<50	3065	3065
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft															
C6 - C10 Fraction		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3065	3065
C6 - C10 Fraction minus BTEX (F1)		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3065	3065
>C10 - C16 Fraction		mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	3065	3065
>C16 - C34 Fraction		mg/kg	100	230	210	<100	120	140	470	<100	<100	100	100	3065	3065
>C34 - C40 Fraction		mg/kg	100	<100	<100	<100	<100	<100	140	<100	<100	<100	<100	3065	3065
>C10 - C40 Fraction (sum)		mg/kg	50	230	210	<50	120	140	610	<50	<50	100	100	3065	3065
EP080S: TPH(V) BTEX Surrogates															
1,2-Dichloroethane-D4		%	0.1	92.7	86.7	91.3	91.8	85.8	87.9	91.3	90.3	94.4	89.4		
Toluene-D8		%	0.1	102	97.4	108	108	97.9	99.9	103	103	105	103		
4-Bromofluorobenzene		%	0.1	89.7	85.1	90.2	93.4	86.7	88.3	89.9	89.8	91.2	89.6		

Attachment E – ALS Soil Test Analysis

Published on DES Disclosure Log
RTI Act 2009

Matrix: SOIL
Workgroup: EB1314646
Project name/number: New Farm River Walk Replaceme

Sample Type:
ALS Sample number:
Sample date:
Client sample ID (1st):
Client sample ID (2nd):
Site:
Purchase Order:

REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
EB1314646001	EB1314646002	EB1314646003	EB1314646004	EB1314646005	EB1314646006	EB1314646007	EB1314646008	EB1314646009	EB1314646010	
18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	18/06/2013	
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	

Analyte grouping/Analyte	CAS Number	Units	LOR										
EA055: Moisture Content													
Moisture Content (dried @ 103°C)		%	1.0	16.0	16.9	12.3	12.9	13.4	18.4	7.9	11.1	9.2	10.6
EG005T: Total Metals by ICP-AES													
Arsenic	7440-38-2	mg/kg	5	8	18	10	12	16	10	9	10	13	12
Cadmium	7440-43-9	mg/kg	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	7440-47-3	mg/kg	2	14	18	19	13	17	15	6	7	13	12
Copper	7440-50-8	mg/kg	5	43	69	35	38	44	36	32	24	32	32
Lead	7439-92-1	mg/kg	5	509	420	363	257	415	140	93	128	186	193
Nickel	7440-02-0	mg/kg	2	10	14	10	9	15	16	11	7	8	9
Zinc	7440-66-6	mg/kg	5	616	1100	504	629	2010	422	360	615	626	649
EG035T: Total Recoverable Mercury by FIMS													
Mercury	7439-97-6	mg/kg	0.1	0.2	0.9	<0.1	0.1	0.2	0.2	0.1	<0.1	0.1	0.1
EP080: BTEX													
Benzene	71-43-2	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP080: BTEXN													
Sum of BTEX		mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total Xylenes	1330-20-7	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
EP080/071: Total Petroleum Hydrocarbons													
C6 - C9 Fraction		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C14 Fraction		mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction		mg/kg	100	130	130	<100	<100	<100	270	<100	<100	<100	<100
C29 - C36 Fraction		mg/kg	100	140	120	<100	<100	<100	270	<100	<100	<100	<100
C10 - C36 Fraction (sum)		mg/kg	50	270	250	<50	<50	<50	540	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft													
C6 - C10 Fraction		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 Fraction minus BTEX (F1)		mg/kg	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10 - C16 Fraction		mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16 - C34 Fraction		mg/kg	100	230	210	<100	120	140	470	<100	<100	100	100
>C34 - C40 Fraction		mg/kg	100	<100	<100	<100	<100	<100	140	<100	<100	<100	<100
>C10 - C40 Fraction (sum)		mg/kg	50	230	210	<50	120	140	610	<50	<50	100	100
EP080S: TPH(V)/BTEX Surrogates													
1,2-Dichloroethane-D4	17060-07-0	%	0.1	92.7	86.7	91.3	91.8	85.8	87.9	91.3	90.3	94.4	89.4
Toluene-D8	2037-26-5	%	0.1	102	97.4	97.7	108	97.9	99.9	103	103	105	103
4-Bromofluorobenzene	460-00-4	%	0.1	89.7	85.1	90.2	93.4	86.7	88.3	89.9	89.8	91.2	89.6

Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: EB1314646	Page	: 1 of 7
Amendment	: (Preliminary Report)		
Client	: JOHN HOLLAND GROUP	Laboratory	: Environmental Division Brisbane
Contact	: s.73 Irrelevant information	Contact	: Client Services
Address	: LEVEL 3 - 1000 ANN STREET FORTITUDE VALLEY QLD 4006	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: s.73 Irrelevant@jhg.com.au	E-mail	: Melbourne.Enviro.Services@alsglobal.com
Telephone	: +61 3867 7000	Telephone	: +61-3-8549 9600
Facsimile	: +61 3867 7100	Facsimile	: +61-3-8549 9601
Project	: New Farm River Walk Replacement Project	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ---	Date Samples Received	: 18-JUN-2013
C-O-C number	: ---	Issue Date	: 25-JUN-2013 17:09
Sampler	: s.73 Irrelevant in	No. of samples received	: 10
Site	: ---	No. of samples analysed	: 10
Quote number	: EN/056/13		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

Accredited for compliance with
ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories

Position

Accreditation Category

s.73 Irrelevant inf

Inorganic Coordinator
Inorganic Coordinator
Senior Inorganic Chemist
Senior Organic Chemist

Brisbane Inorganics
Brisbane Inorganics
Brisbane Inorganics
Brisbane Organics

(Preliminary Report)

Page : 2 of 7
Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- EG005T(Total Metals by ICP-AES) Samples EB1314646 - 003 shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.

Published on DES Disclosure Log
RTI Act 2009

(Preliminary Report)

Page : 3 of 7
Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

				Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
				18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00
Compound	CAS Number	LOR	Unit	EB1314646-001	EB1314646-002	EB1314646-003	EB1314646-004	EB1314646-005
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	---	1.0	%	16.0	16.9	12.3	12.9	13.4
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	8	18	10	12	16
Cadmium	7440-43-9	1	mg/kg	<1	1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	14	18	19	13	17
Copper	7440-50-8	5	mg/kg	43	69	35	38	44
Lead	7439-92-1	5	mg/kg	509	420	363	257	415
Nickel	7440-02-0	2	mg/kg	10	14	10	9	15
Zinc	7440-66-6	5	mg/kg	616	1100	504	629	2010
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.2	0.9	<0.1	0.1	0.2
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	---	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C15 - C28 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C29 - C36 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C10 - C36 Fraction (sum)	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft								
C6 - C10 Fraction	---	10	mg/kg	<10	<10	<10	<10	<10
C6 - C10 Fraction minus BTEX (F1)	---	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C16 - C34 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C34 - C40 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C10 - C40 Fraction (sum)	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP080: BTEXN								
Sum of BTEX	---	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

File C

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(Preliminary Report)

Page : 4 of 7
Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Client sampling date / time					18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00
Compound	CAS Number	LOR	Unit	EB1314646-001	EB1314646-002	EB1314646-003	EB1314646-004	EB1314646-005	
EP080: BTEXN - Continued									
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	92.7	86.7	91.3	91.8	85.8	
Toluene-D8	2037-26-5	0.1	%	102	97.4	97.7	108	97.9	
4-Bromofluorobenzene	460-00-4	0.1	%	89.7	85.1	90.2	93.4	86.7	

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(Preliminary Report)

Page : 5 of 7
Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

				Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
				18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00
Compound	CAS Number	LOR	Unit	EB1314646-006	EB1314646-007	EB1314646-008	EB1314646-009	EB1314646-010
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	---	1.0	%	18.4	7.9	11.1	9.2	10.6
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	9	10	13	12
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	15	6	7	13	12
Copper	7440-50-8	5	mg/kg	36	32	24	32	32
Lead	7439-92-1	5	mg/kg	140	93	128	186	193
Nickel	7440-02-0	2	mg/kg	16	11	7	8	9
Zinc	7440-66-6	5	mg/kg	422	360	615	626	649
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.2	0.1	<0.1	0.1	0.1
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	---	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C15 - C28 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C29 - C36 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
C10 - C36 Fraction (sum)	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
EP080/071: Total Recoverable Hydrocarbons - NEPM 2010 Draft								
C6 - C10 Fraction	---	10	mg/kg	<10	<10	<10	<10	<10
C6 - C10 Fraction minus BTEX (F1)	---	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C16 - C34 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C34 - C40 Fraction	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
>C10 - C40 Fraction (sum)	---	-	-	Not Authorised	Not Authorised	Not Authorised	Not Authorised	Not Authorised
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP080: BTEXN								
Sum of BTEX	---	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

File C

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Page : 6 of 7
Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Client sampling date / time					18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00	18-JUN-2013 11:00
Compound	CAS Number	LOR	Unit	EB1314646-006	EB1314646-007	EB1314646-008	EB1314646-009	EB1314646-010	
EP080: BTEXN - Continued									
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	87.9	91.3	90.3	94.4	89.4	
Toluene-D8	2037-26-5	0.1	%	99.9	103	103	105	103	
4-Bromofluorobenzene	460-00-4	0.1	%	88.3	89.9	89.8	91.2	89.6	

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Work Order : EB1314646
Client : JOHN HOLLAND GROUP
Project : New Farm River Walk Replacement Project



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	52.7	133.7
Toluene-D8	2037-26-5	60.3	131.1
4-Bromofluorobenzene	460-00-4	59.2	126.6

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Attachment F – Brisbane City Council Certificate of Title to the land

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RTI Act 2009

Enquiries to: Paul Ritchie
Telephone: (07) 3330 5688
Our reference: File Ref: BNE38747 Ecotrack: 193530 Permit No. CLEB02369411

Department of
**Environment and Resource
Management**

Permit to Remove and Dispose of Contaminated Soil

Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant,

Brisbane City Council

GPO Box 1434

BRISBANE QLD 4001

to remove soil contaminated with lead from 175 Bowen Terrace Fortitude Valley (Lot 4 on SP128032) and described in the following correspondence:

Application for Contaminated Soil Disposal Permit dated 1 November 2011 and received 2 November 2011. The permit holder is responsible for ensuring that all personnel involved in the excavation, removal and disposal comply with the specific and standard conditions in Schedules 1 and 2 of this permit.

s.73 Irrelevant

Signed/

s.73 Irrelevant info

Paul Ritchie

Contaminated Land Unit

10/11/2011

CC: DERM (Ipswich Office), Attn: John Rice (scott.blanchard@derm.qld.gov.au))

CC: Transpacific, Attn: Paul Kristensen (paul.kristensen@transpac.com.au)

CC: BCC Attn: Erik Dekker (Erik.Dekker@brisbane.qld.gov.au)

Notice to Applicant

The conditions on this permit have been decided after consideration of the standard criteria (EP Act) and for the purpose of preventing environmental harm. The applicant may apply for a review or appeal against the decision within 10 business days of receipt of this notice (s521 and s531).

PDF copies sent via email
Ecotrack amended.
Please amend SML.

s.73 Irrelevant

10/11/2011

Schedule 1 of 2 – Specific Conditions

The volume or mass of the contaminated soil shall not exceed 2000 cubic metres.

2000 cubic metres of soil to be disposed to unlined landfill in accordance with the disposal facility correspondence dated 31 October 2011 to the Transpacific Waste Management Facility, Chum Street NEW CHUM (Lot 268 on SP103913).

This permit is valid from 10/11/2011 until 10/11/2012.

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RTI Act 2009

Schedule 2 of 2 – Standard Conditions

1. Volume / mass of contaminated soil

This permit applies to the specified volume or mass only. Any increases to the specified quantity will require a new disposal permit.

2. Disposal time period

Disposal must occur within the dates specified or a new disposal permit must be sought.

3. Excavation and loading

The holder of this disposal permit must take all reasonable precautions necessary to prevent the spillage of contaminated soil during loading and prevent contaminated soil being transported from the site of origin on vehicle tyres and plant and equipment.

4. Transportation

(a) Transporter to be advised of permit conditions

Prior to the removal of contaminated soil, the permit holder must provide a copy of the permit and conditions to the transporter.

(b) Load to be secured

The contaminated soil must be covered in the transportation vehicle to ensure that the contaminated soil or offensive or noxious gases are not released during transport.

(c) Cleaning of vehicles and plant equipment

An effective system must be employed for cleaning of vehicles and plant and equipment which are used to transport or handle contaminated soil which prevents release of contaminants onto any roadway or to any waters or stormwater drainage system.

(d) Spillage

Any spillage of contaminants must be cleaned up as quickly as practicable. Spillages must not be cleaned up by hosing, sweeping or otherwise releasing such contaminants or material to any stormwater drainage system, roadside gutter or waters.

5. Receival and disposal

(a) Licence conditions

The acceptance and disposal of the contaminated soil must comply with the licence conditions and the specific requirements of the disposal facility.

(b) Disposal receipts

Copies of disposal acceptance receipts are to be submitted to the Administering Authority within 10 business days of the date of disposal. The holder of, or person acting under a disposal permit, must comply with the conditions of the permit (s425 of the *Environmental Protection Act 1994*).

Maximum penalty - 100 penalty units.

6. Interim storage

Contaminated soil which is temporarily stored at the site of origin or approved for storage at a separate property must be stockpiled and securely covered and/or managed to ensure that:

- (a) rainwater is drained away from the stockpiles;
- (b) contaminated soil is not transported from the stockpile by wind or rainwater;
- (c) offensive odours or noxious gases are not release; and
- (d) soil underlying the stockpiles is not affected by contamination.

A report is to be provided to the Administering Authority within 28 days of final disposal that verifies that the storage area is fully cleared of contamination.

7. Treatment of soil

(a) Licensed facility

When treatment is to be undertaken at a licensed general waste disposal facility or regulated waste treatment and disposal facility, acceptance receipts must be provided to the Administering Authority within 10 days of contaminated soil delivery. The contamination level in the soil must be reduced to a level agreed by the Administering Authority. When contaminated soil is stored at such facility pending treatment, storage is to be undertaken according to condition 6.

(b) Other treatment sites

(i) Soil remediation and validation report.

The permit holder must provide a report of the soil remediation including chemical test results that validate that the contamination has been lowered to levels agreed with the Administering Authority. The report must provide evidence that the land underlying the treatment activity is not affected by contamination.

(ii) Environmental harm.

Treatment activities must be carried out to ensure that environmental harm is not caused and that contaminants including treatment agents are not released from the site by wind, stormwater or as offensive or noxious gases. The requirements of condition 6 also apply.

(c) Final disposal

When soil contamination has been reduced to levels acceptable to the Administering Authority, the soil may be disposed of as general fill unless otherwise specified in Schedule 1. The location of the final disposal site of the soil is to be identified after treatment by written advice to the Administering Authority.

****End of Document****

☐ For Regional Information & Filing

☒ Regional Action Required

Admin. Office: Contaminated Land Unit, Flr 8 400 George

Project No: 193530

Client No: 47379 EMR/CLR ID No: 31053

Permit No: CLEB 02369411

(2000m³)

App: 478827

~~CROW~~ No: AR012994

Application for Disposal Permit (Contaminated Land) Checklist

☒	Part A and Part B application forms supplied and complete.
☒	Forms signed and dated
☒	All parts of the forms completed
☒	Letter of acceptance from Landfill etc
☐	TPR approval received (if one is appointed for the site (Contaminated Land Unit to action).



Applicant Name: Brisbane City Council

Contact Name: Tim George

Location: 4/SPI28032 Howard Smith wharf

Third Party Reviewer: N/A
(If applicable)

Co-ordinator: Ria George

Date Received:

2 / 11 / 11

Due Date

(10 business days after application deemed valid):

16 / 11 / 2011

s.73 Irreleva

Date Application Deemed Valid:

2 / 11 / 11

Due Date (TPR)

(5 business days after application deemed valid)

___ / ___ / ___

Record of consultation

Applicant name:

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	ISU Staff:			

Bring Up Details Report

193530 - HR601781/Howard Smith Wharves (Brisbane Central Wharves)

Ref:	78574	Created Date:	03-NOV-11
Status:	Submitted	Closed Date:	
Assigned To:	READY, Kelli-Jean	Due Date:	08-NOV-11
Email Address:	Kelli.Ready@derm.qld.gov.au	Reminder Date:	
Project Director:			
Project Manager:			
CC:	RITCHIE, Paul		
CC:	LUCKE, Gavin		
Subject:	Disposal Permit-App No:478827		
Comments:	<p>Disposal Permit</p> <p>Project Number: 193530 Permit Number: CLEB02369411 TPR Client: Brisbane City Council Lot on Plan: Lot 4 on SP128032 Location: Howard Smith Wharf, 175 Bowen terrace, Fortitude Valley Report Title: Application Date: 2/11/2011</p> <p>Dear Kelli</p> <p>A Disposal Permit application has been received and entered into Ecotrack</p> <p>The application will be forwarded to Contaminated Land Unit on the 3/11/11.</p> <p>Regards,</p> <p>Liz James</p>		



Project Running Report

Date 02-NOV-2011 **Status** Application Validation **Decision** Level 2

Council	Assessment Branch City Planning and Sustainability Division
---------	--

Primary Contact

Name	Contact Number
Brisbane City Council	07 3403 8888

Activities

Name
Movement, Treatment Or Disposal Of Contaminated Soil

Locations

Name	Address Line 1	Address Line 2	Suburb	Postcode	State
Howard Smith Wharf, 175 Bowen Terrace, Fortitude Valley					

Agency Interests/Ratings

Category	Type	Rating
----------	------	--------

Permits: 1

Permit Ref	Permit Type	Status
CLEB02369411	Contaminated Soil Disposal Permit	Assessment

Application Form

ARO12994

Part A

General details for all applications

OFFICIAL USE ONLY

DATE RECEIVED

--	--	--

FILE REF

--

PROJECT REF

--

COMPLETE FORM

☐

ENTERED BY [SIGNATURE]

--

DATE

--	--	--

RECEIPTING DETAILS ONLY

DATE RECEIPTED

--	--	--

RECEIPT NUMBER

--

AMOUNT RECEIVED

\$

PROCESSED BY (INITIALS AND NAME)

--

GUIDE

1. The applicant is the person intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the address of a person and cannot be a post office box.

If more than one applicant as part of a partnership, complete the "Joint applicant details" form and attach to this PART A form.

Important information for applicants

This form asks for general applicant details and a description of the proposed project and any associated activities. The completed form must be submitted together with relevant activity specific [Part B] forms and any other associated forms included in your application kit.

Specific details must accompany this form to enable your application to be processed. The guide provided will help you complete your application correctly. If you have any difficulties completing the form, contact the Ecoaccess Customer Service Unit desk on 1300 368 326. Please number all attachments alphabetically (e.g. 'Attachment A').

(Commercial and confidential information must be marked clearly. If subsequent activities are added to the project, you will be required to resubmit this application with details of the additional activity).

Tick relevant boxes below if the applicant(s) are:

- ☐ an individual or sole trader
- ☐ individuals in a partnership
- ☐ individual(s) acting on behalf of an unincorporated organisation
- **Go to Section 1**
- ☒ an incorporated company
- ☐ an incorporated association
- ☐ a statutory authority
- ☐ a body politic
- **Go to Section 2**

RECEIVED

02 NOV 2011

Palm

1. Individual applicant(s) details⁽¹⁾

APPLICANT'S FULL NAME		TITLE	DATE OF BIRTH
REGISTERED ADDRESS		POST CODE	
TELEPHONE	FACSIMILE	E-MAIL	
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)			POST CODE



Guardian details (if applicable)

A parent or legal guardian must complete the following details if an applicant is under 18 years of age.

GUARDIAN'S FULL NAME	DATE OF BIRTH
GUARDIAN'S REGISTERED ADDRESS	POST CODE
GUARDIAN'S SIGNATURE	DATE

→ Go to Section 3

2. Applicant details

2. The applicant is the registered legal entity (not a business trading name) intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the registered business address of the company making the application and cannot be a post office box.

Enter the Australian Business Number (ABN); or the Australian Company Number (ACN) of the incorporated company; or the Association Number (AN) of the incorporated association; or the title and section of the legislation that gives the statutory corporation its legal status.

REGISTERED LEGAL ENTITY NAME Brisbane City Council		
TRADING NAME (IF APPLICABLE)		
REGISTERED ADDRESS GPO Box 1434, Brisbane, QLD Green Square South Tower 505 St Pauls Terrace, Fortitude Valley		POST CODE 4001
TELEPHONE 3027 4725	FASCIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE
ABN/ACN/AN OR TITLE AND SECTION OF LEGISLATION 72002765795		

Application form – Part A
General details for all applications

Principal contact or person in charge details

PRINCIPAL CONTACT/PERSON IN CHARGE FULL NAME Tim George		TITLE Mr
POSITION IN CORPORATION Environmental Officer		
TELEPHONE 3027 4725	FASCIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE

Authorised signatory

The authorised signatory is the person authorised to sign an application on behalf of a corporation and in doing so declares that the corporation will be bound by the conditions associated with the granting of the licence or permit.

AUTHORIZED SIGNATORY FULL NAME Erik Dekker	TITLE Mr
POSITION IN CORPORATION Senior Environmental Engineer	

3. Project details

Pre-lodgement

Have you previously attended a pre-lodgement meeting or submitted a pre-lodgement form for this project?

☒ NO ☐ YES

PROJECT NUMBER (IF APPLICABLE)

Project description

Briefly describe the proposed activities, works, development or management. Attach a separate sheet if there is insufficient space below.

DESCRIPTION Application for a Contaminated Soil Disposal Permit for stockpiled material removed from the adjacent rock face at Howard Smith Wharf.

Approvals required

Please list all Part B application forms you are attaching to this form.

<p>APPLICATION FORMS</p> <p>Application for Contaminated Soil Disposal Permit</p>

Project site

Where will the activities be conducted? Provide the street address, real property description(s) of the land(s) in which the project is located and local government area. If you require more space, attach a separate sheet.

This information should at least provide enough details to allow an EPA or QPWS officer to locate the site of the proposal.

<p>STREET ADDRESS</p> <p>Howard Smith Wharf 175 Bowen Terrace, Fortitude Valley, 4006</p>	
<p>LOT</p> <p>4</p>	<p>PLAN</p> <p>SP 128032</p>
<p>LOCAL GOVERNMENT AREA</p> <p>Brisbane City</p>	

If possible, provide a specific location within a protected area, a property name or an attached map with the project area clearly delineated. Also include the map name/details.

Give as much information as possible to accurately locate your activity, for example maps with contextual or boundary lines on plan or GPS boundary co-ordinates.

<p>SPECIFIC LOCATION/PROPERTY NAME</p>
<p>PROTECTED AREA</p>
<p>GEOGRAPHICAL CO-ORDINATES</p>

Geographical co-ordinates can include northing/easting, longitude/latitude.

Attachments

List all attached documents, including maps containing information supporting this application in the space below. If there are no attachments mark "N/A."

Label all attachments alphabetically (e.g. 'Attachment A')

<p>ATTACHMENTS (LABEL ALL ATTACHMENTS ALPHABETICALLY – E.G. 'ATTACHMENT A')</p> <p>1. Cover Letter; 2. Application for Contaminated Soil Disposal Permit; Attachment A: Written Acceptance from Transpacific New Chum Landfill and Certificate of Title; Attachment B: Sample Location Map and Certificate of Title; Attachment C: Tabulated Analysis Results; Attachment D: Soil Analysis Lab Results; Attachment E: TCLP Lab Results.</p>

4. Applicant's certification

Note: If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act 1867*.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

APPLICANT(1) SIGNATURE	
s.73 Irrelevant information	

Joint applicant signatures (if applicable)

APPLICANT(2) SIGNATURE

APPLICANT(3) SIGNATURE

APPLICANT(4) SIGNATURE

APPLICANT(5) SIGNATURE

DATE 01/11/11

Complete the following checklist.

- ☒ Application form(s) signed and completed
- ☒ Permit fees paid or enclosed (if applicable)
- ☒ Supporting information attached (e.g. maps)

Please return your completed application kit to:

**Ecoaccess Customer Service Unit
Environmental Protection Agency**

PO Box 15155
City East
Queensland 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
Email: eco.access@epa.qld.gov.au

Application form

Environmental Protection Act

Application for contaminated soil disposal permit – Part B

This form sets out the specific details required for an application under s424 of the Environmental Protection Act 1994 for a permit to dispose of contaminated soil offsite. A contaminated soil disposal permit is required before you can proceed lawfully with your project and any associated activities.

1. Specific information requirements

Please provide details of site(s) from which soil is to be removed

If you require additional space, attach the information requested and make reference to that sheet here.

FULL STREET ADDRESS OF SITE(S) 175 Bowen Terrace, Fortitude Valley	
LOT(S) 4	PLAN(S) SP128032
LOCAL GOVERNMENT AREA Brisbane City	

Has a site investigation report been submitted to the Environmental Protection Agency (EPA)?

☒ NO

☐ YES

EPA PROJECT REFERENCE OR FILE NUMBER? (IF KNOWN)

Please provide a copy of the current Certificate of Title to the land

☒ ENCLOSED WITH THIS APPLICATION

☐ SUBMITTED PREVIOUSLY TO EPA AS PART OF A SITE INVESTIGATION / VALIDATION REPORT

Has the site been used for a notifiable activity as per Schedule 3 of the *Environmental Protection Act 1994*?

☐ NO

☒ YES (PLEASE SPECIFY) HAZARDOUS CONTAMINANT SITE

Is the site presently being used for a notifiable activity?

☒ NO

☐ YES (PLEASE SPECIFY)

Is the site currently on the Environmental Management Register or Contaminated Land Register?☒ YES ☐ NO (IF NO, YOU MUST SUBMIT A NOTIFICATION FORM TO THE EPA)**Has contaminated soil been removed from this site in the past?**☒ NO (GO TO QUESTION 19) ☐ YES**Was approval for off-site disposal obtained?**☐ NO ☐ YES**What is the approximate volume (in cubic metres) of soil to be removed (allowing for excavation bulking)?**

2000 m3

How did you calculate the volume of soil to be removed?

Estimation using the depth, width and length of excavation area

What are the dates between which soil will be moved to the disposal location?FROM DATE:
01/11/2011TO DATE:
01/11/2013

(In accordance with Section 424(7), permits will only be valid between dates stipulated in the disposal permit)

Justification of request?

State reason(s) why on-site treatment or management is not proposed

The material was removed from the adjacent rockface and excavated from fill areas onsite. There is no location where the excavated material could be reused on site.

Will validation sampling be undertaken to confirm that all soil has been removed?☒ NO ☐ YES

Provide a description of the contamination present in the soil to be removed?

Analysis results show Zinc, Lead and Copper to be above NEPM Ecological Investigation Levels.

Please tick relevant boxes to indicate that you have attached the following information with this application?

- ☒ Scaled plan showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ Toxicity Characteristic Leaching Procedure (TCLP) results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analysis
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained

Written acceptance from owner of site receiving contaminated soil?

- (a) ☐ Soil being removed to a local government administered landfill

NAME AND ADDRESS OF LOCAL GOVERNMENT ADMINISTERED LANDFILL

- ☐ **Written acceptance from local government authority is enclosed**

- (b) ☒ Soil being removed not going to a local government-administered landfill

- ☐ Copy of Certificate of Title for the disposal location site

LOT(S) 268	PLAN(S) SP103913
FULL STREET ADDRESS OF SITE(S) 100 Chum Street, New Chum, 4303	

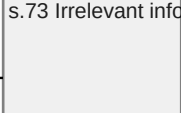
- ☒ Written acceptance from registered owner of site is enclosed with this application

Declaration

Note: If you do not tell the truth in this application you may be liable for prosecution under the relevant legislation.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under s480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know to be false, misleading or incomplete in a material particular; and
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

Application form – Part B
Contaminated soil disposal permit

APPLICANT'S NAME Tim George	PRINT NAME OF APPOINTED SIGNATORY (IF APPLICABLE)
APPLICANT'S SIGNATURE / APPOINTED SIGNATORY 	DATE 01/11/2011

Applicant checklist

- ☒ Application form(s) completed and signed
- ☒ Supporting information attached (if applicable)

Please return your completed application kit to:

Ecoaccess Customer Service Unit
Environmental Protection Agency
PO Box 15155
City East QLD 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
eco.access@epa.qld.gov.au

You may apply for an exemption from disclosing information contained in a document submitted, or proposed to be submitted with this application (see Section 564 of the *Environmental Protection Act 1994*).

Published on 01/11/2011
RTI Act 2009
Disclosure Log

Attachment A

Published on DES Disclosure Log
RTI Act 2009

31st October 2011

Solid Waste Division
Transpacific Waste Management
ABN: 55 120 175 635

100 Chum Street
New Chum QLD 4303
PO Box 384
BOOVAL FAIR QLD 4304
Phone: + 07 3816 2166
Fax: + 07 3816 3055

Attention:
Erik Decker Senior Environmental Officer
Water and Environment
Brisbane City Council - City Design

Dear Erik,

RE: Acceptance of contaminated soil – Brisbane River (Below Story Bridge) 175 Bowen Terrace, Fortitude Valley, (Lot 4 on SP 128032)

Following your email correspondence and provision of laboratory results, I consider we are able to accept **an extension of this 2000m3 from Brisbane River (Below Story Bridge) 175 Bowen Terrace, Fortitude Valley, (Lot 4 on SP 128032), to our UNLINED LANDFILL cell.**

A condition of this acceptance letter being issued is that the applicant must inform Landfill Management of the dates that the contaminated soil will be transported to the landfill.

We consider that this material will fall within the acceptance criteria of Transpacific Waste Management's DERM Licence. Our DERM licence number is ENRE00102604 and our lot on plan is Lot 268 on SP103913. If you require any additional information please do not hesitate to contact the undersigned on (07) 3816 2166.

Yours sincerely,

s.73 Irrelevant information

Environmental/Technical Manager

s.73 Irrelevant information

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217

Search Date: 07/06/2010 14:29

Title Reference: 50213117

Date Created: 01/04/1998

Previous Title: 50089779
50089780

REGISTERED OWNER

Dealing No: 710871395 03/08/2007

TRANSPACIFIC WASTE MANAGEMENT PTY LTD
A.C.N. 120 175 635

ESTATE AND LAND

Estate in Fee Simple

LOT 268 SURVEY PLAN 103913
County of STANLEY Parish of GOODNA
Local Government: IPSWICH

For depth restrictions refer to Plan SP 103913

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10031168 (POR 220)
Deed of Grant No. 10033067 (POR 219)
Deed of Grant No. 10046194 (Lot 218 on CP SL10024)
Deed of Grant No. 10046196 (POR 217)
Deed of Grant No. 10105131 (POR 264)
Deed of Grant No. 10116209 (POR 265)
Deed of Grant No. 10116210 (POR 268)
Deed of Grant No. 10118171 (POR 269)
Deed of Grant No. 17761240 (Lot 299 on CP 892008)
Deed of Grant No. 18789219 (Lot 65 on CP 816935)
2. EASEMENT IN GROSS No 601143346 (D953347) 10/11/1970
BURDENING THE LAND
TO THE QUEENSLAND ELECTRICITY GENERATING BOARD
OVER EASEMENTS B AND C ON RP126793
3. TRANSFER No 703630291 14/10/1999 at 08:19
EASEMENT IN GROSS: 601143346 (D953347)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233
4. EASEMENT IN GROSS No 602211776 (D953349) 10/11/1970
burdening the land
QUEENSLAND ELECTRICITY COMMISSION
over
EASEMENT B ON RP126945
5. TRANSFER No 703675243 05/11/1999 at 07:49
EASEMENT IN GROSS: 602211776 (D953349)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217

Search Date: 07/06/2010 14:29

Title Reference: 50213117

Date Created: 01/04/1998

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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Requested By: External Supervisor

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Attachment B

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FOR INTERNAL USE ONLY

DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT

SEARCH RESPONSE

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

Transaction ID: 15546849
2011

EMR Site Id: 31053

02 November

This response relates to a search request received for the site:

Lot: 4 Plan: SP128032

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.

Lot	Plan	
2	B3333	EMR
2	RP44680	EMR
2	RP8616	EMR
4	RP41821	EMR
21	RP8614	EMR
22	RP8614	EMR

ADDITIONAL ADVICE

From the 1st August 2011, the price of an EMR/CLR search will increase to \$40.15 per lot for internet based searches and \$47.20 per lot for EMR/CLR searches done by means other than the internet.

If you have any queries in relation to this search please phone (07) 3330 5685.

Elizabeth Evans
Registrar, Contaminated Land Unit

To execute a new search, select the "Back" button on the browser twice



QNTIME Version 1.6


[QNTIME](#) > [Specific Parcel Search](#) > [Specific Parcel Report](#)

Specific Parcel Report

Lot: 4 on Plan: SP128032
Parcel: on Segment:

DCDB:

Tenure:

Description:

FH

FREEHOLD

CISP:

Previous Plan Details:

Plan	Registered	Description
SP211460	25/06/2010	LOT 495; PLAN OF LOT 4 ON SP128032 CANCELLING USL (BEING PART OF THE BRISBANE RIVER ADJOINING LOT 4 ON SP128032)
AP19799		LOTS A & B (BEING PART OF THE BRISBANE RIVER ADJOINING) LOT 493 ON SP150139, LOT 3 ON SP190810, LOT 4 ON RP52849 & LOT 4 ON SP128032 (PERMIT TO OCCUPY)
AP14996		LOTS 1-4; & PART OF ADJOINING LOT 3 ON SP128031, LOT 4 ON SP128032 AND LOT 4 ON RP52849 CANCELLING PART OF BRISBANE RIVER
RC172119		LOT 1; PLAN OF LOT 4 ON SP128032 & LOT 900 ON SP134601 CANCELLING USL(PART OF THE BRISBANE RIVER ADJACENT TO LOT 4 ON SP128032 & LOT 900 ON SP134601)
SP128032	28/07/2000	LOT 4 CANCELLING LOT 2 ON B3333, BAL OF LOTS 21 & 22 ON RP8614, LOT 2 ON RP8616, BAL OF LOT 4 ON RP41821, LOT 2 ON RP44680 AND LOT 4 ON CP890874
RC906986		LOT 22 CANCELLING LOT 2 ON RP8616, LOT 2 ON RP44680, LOT 4 ON RP60570, LOT 2 ON B3333, THE BALANCE OF LOTS 21 & 22 ON RP8614 & THE BALANCE OF LOT 4 ON RP41821
CP890874	24/02/1995	LOT 4 CANCELLING LOT 4 ON RP60570
IS104559		LOT 4 (PART) ON RP41821, LOTS 21 AND 22 (PART) ON RP8614, LOT 2 (PART) ON RP44680, LOT 2 (PART) ON B3333, LOT 4 (PART) ON RP60570, LOTS 1 AND 3 (PART) ON RP52848, LOT 2 (PART) ON RP64992
RP8598	22/06/1978	LOTS 1 AND 2 CANCELLING LOT 1 ON RP8574 AND LOT 1 ON RP8582
RC110280		LOTS 1-4 CANCELLING LOT 400 ON SL1404, LOT 2 ON B3333, LOT 6 ON RP8569, LOTS 21-22 ON RP8614, LOT 2 ON RP44680
RP60570	19/12/1949	LOTS 1-4 CANCELLING LOT 1 ON RP8578, LOT 3 ON RP8595, LOT 2 ON RP8596 AND LOT 2 ON RP52849
RP52849	16/07/1936	LOTS 2 - 4 CANCELLING LOTS 4 - 5 ON B3342
RP44680	11/07/1927	LOTS 1 TO 2 CANCELLING LOT 4 ON RP8603 & LOT 8 ON RP8607
IS201944		LOTS 21 & 22 ON RP8614 & LOTS 1 & 2 ON RP48092 (NOPLAN - FIELD NOTES ONLY)
RP41821	05/08/1925	LOTS 1 AND 3-4 CANCELLING LOT 23 ON RP8616
RP8578	16/12/1920	LOTS 1-2 CANCELLING LOT 1 ON RP8598 & LOT 9009 ON B3342
B3657	20/09/1919	ALIGN OF PART OF BOWEN TERRACE ADJOINING ESA.9 (BETWEEN HARCOURT & MALT STREETS)
RP8616	09/03/1918	LOTS 1 & 2 CANCELLING LOT 23 ON RP8614
B3342	29/10/1901	SUB OF ESA.888A; RESUB A OF SUB 1 & 2 OF ESA.9A (FOR B.334.2 SEE SL11143)
B3333	14/05/1901	ALLOT 2 OF SEC.63;;ALLOT 2 OF SEC.63;
RP8574	02/08/1881	LOTS 1-2 CANCELLING LOT 10-13 ON RP8573
RP8594	01/09/1878	LOTS 1-4 CANCELLING LOT 9009 ON B3342
RP8614	26/04/1872	LOTS 21-25 CANCELLING PART OF LOT 11 ON B12342
RP8596	06/04/1872	LOTS 1 AND 2 CANCELLING LOTS 1 AND 2 ON RP8595
RP8603	30/05/1869	LOT 4 CANCELLING LOT 901 ON B12346
RP8573	09/03/1866	LOT 10-13 CANCELLING LOT 8 ON B12342
RP8607	03/01/1865	LOT 8,10 CANCELLING LOT 910 ON B12346
RP8595	06/05/1864	LOTS 1-3 CANCELLING LOTS 1-4 ON RP8594
B12342	01/01/1801	ESA.1-62;R.1289 & R.989
B12346	01/01/1801	ESA.6A,7A,8A,9A & 10A;ESA.6A,7A,8A,9A & 10A

ATS:

Title Reference:

50323249

Registered Owner: BRISBANE CITY COUNCIL
Tenure Reference:
Original Deed of Grant: 1. 40025609
Lease Purpose:
Reserve Purpose:
Area:
Lease Conditions:
Commencement Date:
Trustees:
Interests:
Previous Title References: 40025609

QVAS:

Registered Owner: BRISBANE CITY COUNCIL
Address: 5-5A BOUNDARY ST, BRISBANE CITY QLD 4000
Primary Land Use Code: WAREHOUSE & BULK STORES(28)
Secondary Land Use Code: NONE(0)

TAS:

No TAS data found.

[View on Keymap](#)

[Back to Search](#)

Logged in as jamesel

[Disclaimer](#)

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[Queensland Government Gateway](#)

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Profile
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Imagery
Notings
Place Names
Survey Marks
Survey Plans

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Profile
Settings

[-] Data Suppression

Area By Filter
Area By Scale
Survey Mark Filter
Noting Filter

[-] Map Suppression

Layers
User Defined

Shading
Define Area
Build Map
Refresh Map
Export SmartMap

[+] Other Services

[+] Admin

Hide Keymap

Spatial Search Results for Lot 4 on Plan SP128032

[Search Imagery at Point](#)

[Survey Search on selected plan\(s\)](#)

Lot/Plan	4/SP128032
Segment/Parcel:	25165/126
Tenure:	FH - FREEHOLD
Area:	2.5940 ha
Excluded Area:	0.00 m ²
Surveyed:	Yes
Coverage:	Base
Accuracy:	STANDARD 1:2500 CADASTRAL MAP - 1.5M
Locality:	FORTITUDE VALLEY
Local Government:	BRISBANE CITY
Address:	175 BOWEN TERRACE, FORTITUDE VALLEY

[Retrieve Plan Image](#)
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INTERNAL CURRENT TITLE SEARCH
ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Search Date: 02/11/2011 11:57

Title Reference: 50323249
Date Created: 31/07/2000

Previous Title: 40025609

REGISTERED OWNER

Dealing No: 707890862 14/07/2004

BRISBANE CITY COUNCIL

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES

Dealing	Type	Lodgement Date	Status	Location
713597367	HERITGE SITE	30/11/2010 11:14	CUR	EL-GEN -00
QUEENSLAND HERITAGE ACT 1992				

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Current Title Search **

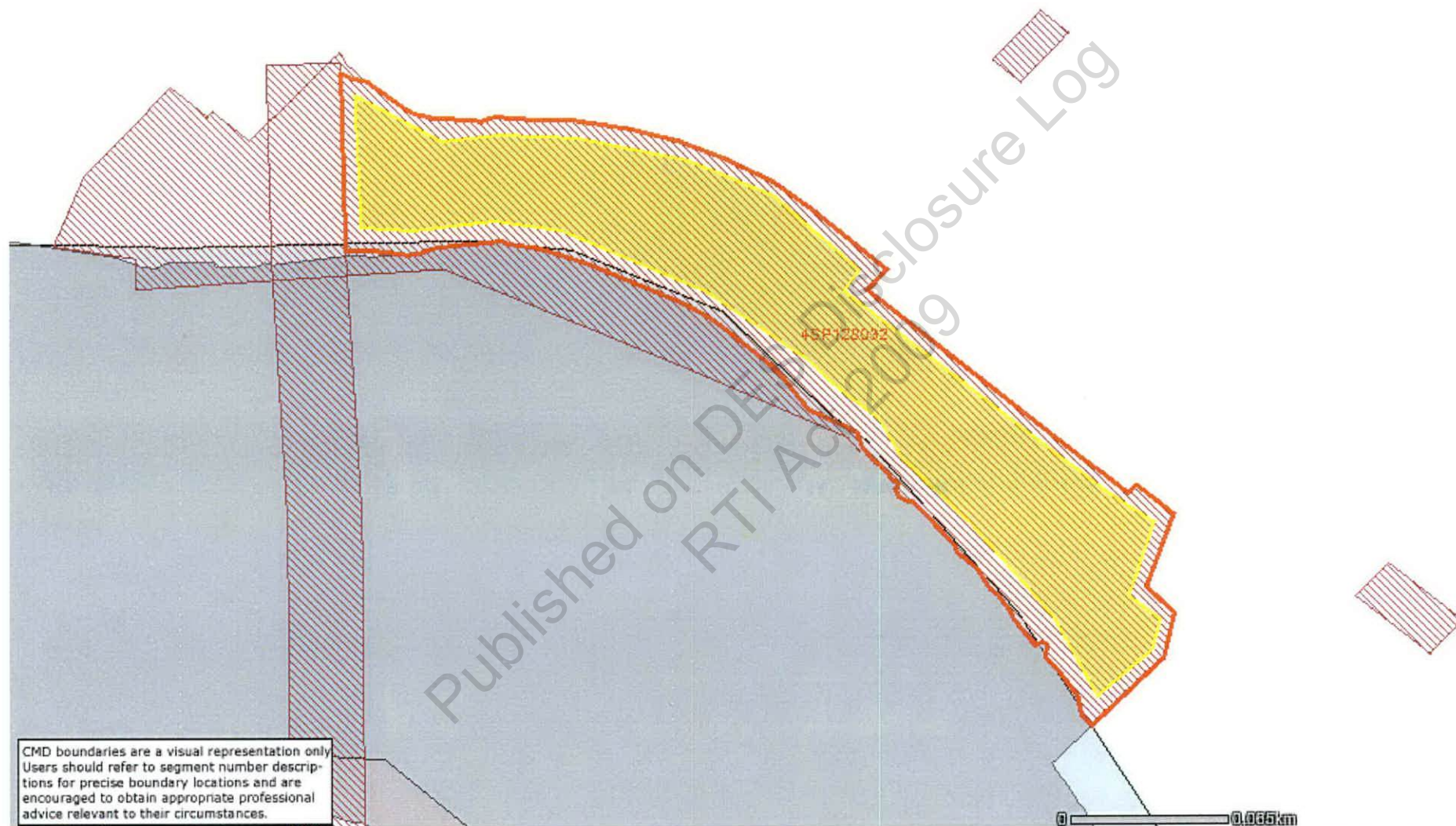
eco maps

02/11/2011

Queensland Environmental Protection Agency

Lot 4 on SP128032

Page 1 of 2



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Queensland Environmental Protection Agency

Lot 4 on SP128032

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File C

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Queensland Heritage Register Boundaries

No.	Place Name	Listing Number	Status
1	Howard Smith Wharves	601781	State heritage place

Regional Ecosystems shaded by VMA status

No.	Regional Ecosystem	VMA Status	Percent	Remnant Vegetation Under Section 20AH
1	non-rem	-	100	

Cadastre

No.	Lot Number	Plan Number	Lot and Plan Number	Street No.	Street Suffix	Street No. 2	Street Suffix 2	Street Name	Street Type	Street Part	Loc Name	Area in sq metres	Tenure	Parish	County	LGA	Feature Name	Locality
1	4	SP128032	4SP128032	175				BOWEN	TCE		FORTITUDE VALLEY	26220.835	FH	NORTH BRISBANE	STANLEY	BRISBANE CITY		FORTITUDE VALLEY

SEQ Regional Plan 2009 2031 Regional Landuse Categories

No.	Category
1	Urban Footprint

Koala SPP SEQ Koala Protection Area

No.	Region
1	East

Koala SPP Habitat Value

No.	Assessable Development Areas	Habitat Value
1		Non Habitat

Regional Harbour Master Areas

No.	Region Name
1	BRISBANE REGION

Queensland Fire and Rescue Service regional office boundaries

No.	QFRS Region	Office	Street Address	Postal Address	Phone No.	Fax No.	Mobile No.
1	Brisbane Region	BRISBANE NORTH COMMUNITY SAFETY OFFICE	Level 3 Kedron Brook Building, cnr Gympie and Kedron Park Roads, Kedron, 4031	PO Box 000, Kedron, Qld, 4031	(07) 3247 8045	(07) 3247 8070	s.73 Irrelevant

Native Title Claim Boundaries

No.	Claim Number	Name and Number	Federal Court Number
1	QC98/026	TURRBAL QC98/026	QUD6196/98

2	QC03/015	JAGER #2 QC03/015	QUD6014/03
---	----------	-------------------	------------

Local Government Areas

No.	LGA Name
1	BRISBANE CITY

DERM Regions

No.	Region
1	SOUTH EAST

Aboriginal Representative Bodies

No.	Representative Body Name
1	Queensland South Native Title Services Ltd, PO Box 10832, Adelaide Street, Brisbane QLD 4000

Cultural Heritage Permits

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Permit Group	Complaint Reports	Compliance Activities
1	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Howard Smith Wharves (Brisbane Central Wharves)			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
2	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Howard Smith Wharves (Brisbane Central Wharves)			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
3	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
4	209493	HR 601810 'Sunnyside'	CHCH00322309	QH Act / Exemption Certificate	Invalid	Howard Smith Wharves 175 Bowen Terrace Fortitude Valley			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
22-166						Howard	File C								Page 77 of 366

5	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCH01012310	QH Act / Exemption Certificate	Current	Smith Wharves (Brisbane Central Wharves)		4	SP128032		Cultural Heritage	View Complaint Reports	View Compliance Activities
6	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Howard Smith Wharves (Brisbane Central Wharves)		4	SP128032		IPA	View Complaint Reports	View Compliance Activities
7	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley		4	SP128032		IPA	View Complaint Reports	View Compliance Activities
8	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley		4	SP128032		IPA	View Complaint Reports	View Compliance Activities
9	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCH02568511	QH Act / Exemption Certificate	Current	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley		4	SP128032		Cultural Heritage	View Complaint Reports	View Compliance Activities
10	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCH01846511	QH Act / Exemption Certificate	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley		4	SP128032		Cultural Heritage	View Complaint Reports	View Compliance Activities
11	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley		4	SP128032		IPA	View Complaint Reports	View Compliance Activities
		Coastal - MCU which				Howard Smith							

12	330380	will involve operational works/Howard Sm	CHCH00363309	QH Act / Exemption Certificate	Current	Wharves Boundary Street Brisbane			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
13	209493	HR 601810 'Sunnyside'	IPDH00795207	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
14	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
15	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCF00007302	QH Act / Private Development in Registered Place - Pre-QHOLAA	Current	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
16	330380	Coastal - MCU which will involve operational works/Howard Sm	IPCH01245308	Concurrence Response for Development on a heritage registered place	Current	Howard Smith Wharves Boundary Street Brisbane			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
17	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Howard Smith Wharves (Brisbane Central Wharves)			4	SP128032			IPA	View Complaint Reports	View Compliance Activities
18	193530	HR601781/Howard Smith Wharves (Brisbane Central Wharves)	CHCH00078904	QH Act / Exemption Certificate	Expired	Howard Smith Wharves (Brisbane Central Wharves)			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
19	193530	HR601781/Howard Smith Wharves (Brisbane Central Wharves)	CHCH00940310	QH Act / Exemption Certificate	Current	Howard Smith Wharves			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities

20	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCH01012310	QH Act / Exemption Certificate	Current	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
21	187605	HR600240/Story Bridge, Bradfield Highway Kangaroo Point Plus	CHCH01350010	QH Act / Exemption Certificate	Current	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
22	330380	Coastal - MCU which will involve operational works/Howard Sm	CHCH00340109	QH Act / Exemption Certificate	Current	Howard Smith Wharves Boundary Street Brisbane			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
23	209493	HR 601810 'Sunnyside'	CHCH00322309	QH Act / Exemption Certificate	Invalid	Howard Smith Wharves 175 Bowen Terrace Fortitude Valley			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
24	193530	HR601781/Howard Smith Wharves (Brisbane Central Wharves)	CHCF00029603	QH Act / Private Development in Registered Place - Pre-QHOLAA	Withdrawn	Howard Smith Wharves (Brisbane Central Wharves)			4	SP128032			Cultural Heritage	View Complaint Reports	View Compliance Activities
25	209493	HR 601810 'Sunnyside'	IPDH00795407	Development Approval for Development on a heritage registered place	Assessment	Story Bridge, Brisbane - Bradfield Highway, Fortitude Valley			4	SP128032			IPA	View Complaint Reports	View Compliance Activities

Next 25 Records

Contaminated Land Permits

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Principal Holder	Permit Group	Complaint Reports	Compliance Activities
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1	330380	Coastal - MCU which will involve operational works/Howard Sm	IPCL01245108	Concurrence Response for a MCU involving contaminated land	Current	Howard Smith Wharves Boundary Street Brisbane			4	SP128032			Brisbane City Council	IPA	View Complaint Reports	View Compliance Activities
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Historical Coastal Permits pre October 2003

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Principal Holder	Permit Group	Complaint Reports	Compliance Activities
1	193530	HR601781/Howard Smith Wharves (Brisbane Central Wharves)	CSAP01329410	Requests for Advice - MOA DPIF DNRW	Assessment	Howard Smith Wharves Parkland			4	SP128032			Williams, Julie	Coastal	View Complaint Reports	View Compliance Activities

Coastal Permits ecotrack post October 2003

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Principal Holder	Permit Group	Complaint Reports	Compliance Activities
1	330380	Coastal - MCU which will involve operational works/Howard Sm	IPCC01245208	Concurrence Response for a MCU within a coastal management district	Current	Howard Smith Wharves Boundary Street Brisbane			4	SP128032			Brisbane City Council	IPA	View Complaint Reports	View Compliance Activities

Coastal Permits ecotrack pre October 2003

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Principal Holder	Permit Group	Complaint Reports	Compliance Activities
1	193530	HR601781/Howard Smith Wharves (Brisbane Central Wharves)	CSAP01329410	Requests for Advice - MOA DPIF DNRW	Assessment	Howard Smith Wharves Parkland			4	SP128032			Williams, Julie	Coastal	View Complaint Reports	View Compliance Activities

Coastal Development Approval Permits

No.	Project Ref	Project Name	Permit Ref	Permit Type	Permit Status	Site Name	Tenure Type	Tenure No.	Lot	Plan	Latitude	Longitude	Principal Holder	Permit Group	Complaint Reports	Compliance Activities
1	330380	Coastal - MCU which will involve operational works/Howard Sm	IPCC01245208	Concurrence Response for a MCU within a coastal management district	Current	Howard Smith Wharves Boundary Street Brisbane			4	SP128032			Brisbane City Council	IPA	View Complaint Reports	View Compliance Activities

Queensland

22-166

File C

Page 81 of 366

No.	Feature
1	Queensland Mainland

No Features Found in the following layer(s):

- GBR Wetland Protection Area trigger area
- GBR Wetland Protection Area HES wetland
- Wild River Area Boundaries
- Erosion Prone Area Plans
- Coastal Building Line
- Coastal Management Control Districts
- Wet Tropical Coast Coastal Management District
- SEQ RCMP Coastal Management District polygon
- Curtis Coast Coastal Management District
- Cardwell Hinchinbrook Coastal Management District
- Areas under Coastal Management Plans
- Remnant Vegetation
- PMAV
- World Heritage Areas
- Wetland Management Area wetland
- State Marine Parks
- Recreation Areas
- Ramsar Sites
- Nature Refuges and Coordinated Conservation Areas
- SPA Layer for ECSU
- Great Barrier Reef Marine Park Zones
- QPWS Estate for ECSU
- State plantation forest
- SEQ RCMP Developed and Undeveloped Waterways
- Port Limits
- Marine Plants
- Fish Habitat Areas
- Directory of Important Wetlands
- Koala Plan 2006 2016 for ECSU
- Koala SPRP Habitat Value
- Koala SPRP Identified Broad Hectare Areas
- Koala SPRP Assessable Development Areas
- South East Queensland Priority Species Records
- South East Queensland Priority Species Habitat
- Mulga Lands Priority Species Records
- Mulga Lands Priority Species Habitat
- Mitchell Grass Downs Priority Species Records
- Mitchell Grass Downs Priority Species Habitat
- Einasleigh Uplands Priority Species Records
- Einasleigh Uplands Priority Species Habitat
- Channel Country Priority Species Records
- Channel Country Priority Species Habitat
- Brigalow Belt Priority Species Records
- Brigalow Belt Priority Species Habitat
- Potential Commercial Areas
- Petroleum Survey Licences

- Petroleum Pipeline Licences
- Petroleum Leases
- Petroleum Facilities Licences
- Offshore Exploration Title Petroleum
- Offshore Exploration Title Mineral
- Mining Leases
- Mining Claims
- Mineral Development Licenses
- Exploration Permits Special
- Exploration Permits Petroleum
- Exploration Permits Geothermal
- Exploration Permits Mineral
- Exploration Permits Coal
- S86 Point Permits
- S86 Line Permits
- Canal Estate Developments
- Wildlife Permits
- Non Commercial Permits
- Other Tourism and Visitor Management Permits
- Group Activity Permits
- Commercial Activity Permits
- Apiary Sites
- Ozone Permits
- Approval of Resource for Beneficial Use Permits
- PPL Permits
- PL Permits
- EPP or ATP Permits
- ML Permits
- MDL Permits
- MC Permits
- EPM Permits
- EPC Permits
- Registration Permits
- Historical ERA Permits pre October 2004
- ERA Development Approval Permits
- Resource Allocation Permits
- Marine Park Permits
- Dredge Management Plan Permits
- Coastal Act Exemption Certificate Permits
- Major Towns
- Other States

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Dedicated to a better Brisbane

Phone direct: 07 302 74725
Fax direct: 07 333 40071
Email: Timothy.George@brisbane.qld.gov.au

RECEIVED
02 NOV 2011
PaLM

Brisbane Infrastructure
City Design
Level 1 Green Square 505 St Pauls Terrace
Fortitude Valley Qld 4006
GPO Box 1434 Brisbane Qld 4001
T 07 3027 4725 F 07 3334 0071

1 November 2011

Permit and Licence Management
Department of Environment and Resource Management
GPO Box 2454
Brisbane Queensland 4001

Re: HOWARD SMITH WHARF, FORTITUDE VALLEY CONTAMINATED SOIL DISPOSAL PERMIT

Council is currently undertaking an upgrade of the Howard Smith Wharf site at 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032). The site is currently listed on the Environmental Management Register (EMR) as a Hazardous Contaminant Site. In undertaking this upgrade an estimated 2000m³ of material has been removed from the adjacent rock face and excavated from the sites floor before being stockpiled onsite.

Due to the homogenous nature of the material a reduced number of samples (27) were submitted to the laboratory for analysis. Analysis of the stockpiled material recorded elevated metal concentrations of Zinc (3000mg/kg), Lead (420mg/kg), Copper (930mg/kg) and Arsenic (31mg/kg). These results are above the Ecological Investigation Levels detailed within Table 5A – Soil Investigation Levels of the National Environmental Protection Measure (1999).

Council has approval to dispose of the material at the Transpacific New Chum Landfill Facility and is submitting the attached application for a Contaminated Soil Disposal Permit.

I trust this information is sufficient, should you have any questions or require further information please contact Erik Dekker on 3027 4725.

Regards, s.73 Ir

s.73 Irrelevant informat

Tim George s.73 Ir

Environmental Officer
Contaminated Land Services - City Design

Attachments:

Part A: General Details for all Applications

Part B: Application for Contaminated Soil Disposal Permit

Attachment A: Written Acceptance from Transpacific Landfill Facility and Certificate of Title;

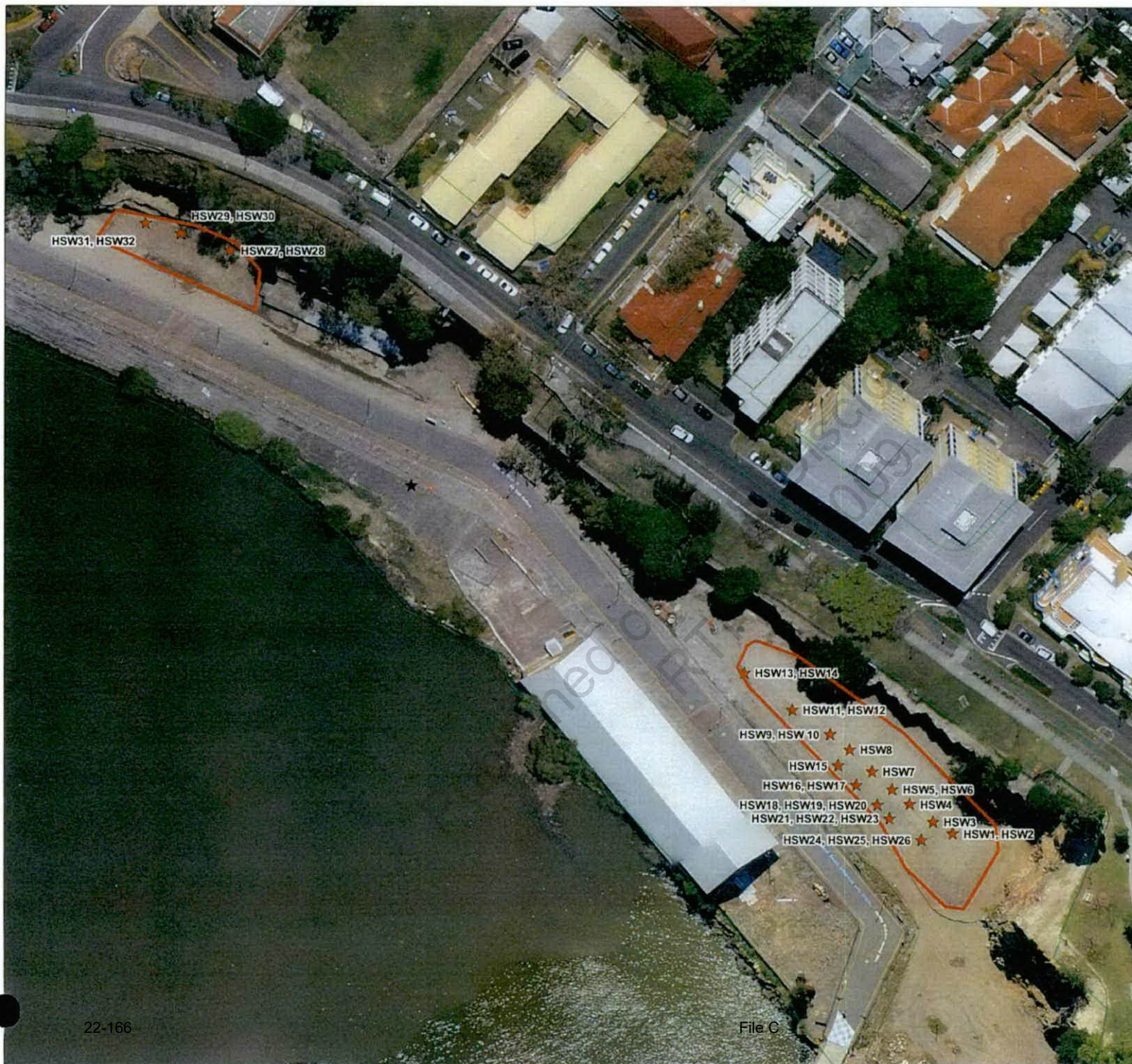
Attachment B: Sample Location Map and Certificate of Title;

Attachment C: Tabulated Analysis Results;

Attachment D: Soil Analysis Lab Results; and

Attachment E: TCLP Lab Results.

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MAILING ADDRESS:
GPO Box 1434
Brisbane Qld 4001

Green Square
South Tower
505 St. Paul's Terrace
Fortitude Valley Qld 4006

Telephone: (07) 3027 5550
Facsimile: (07) 3334 0225

E-mail: citydesign@brisbane.qld.gov.au



Dedicated to a better Brisbane
City Design
Brisbane City Council

LEGEND



Stockpile Area

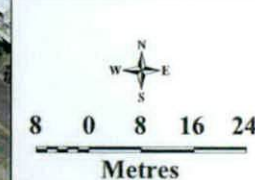


Sample Location

Copyright and Data Disclaimer:

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In consideration of Council, and the copyright owners listed below, permitting the use of this data, you acknowledge and agree that Council, and the copyright owners, make no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accept no liability (including and without limitation, liability in negligence) for any loss, damage or costs (including consequential damage), relating to any use of this data. Data must not be used for direct marketing or be used in breach of any copyright or privacy laws.

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Cellarbs © 2010 Department of Environment and Resource Management, Street Names and House Numbers © 2010
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Printed 7 Feb 11

Project Number	NA	Revision	1	Prepared	CD	Checked	CD
----------------	----	----------	---	----------	----	---------	----

Workspace NA

Project **Howard Smith Wharf**

Title **Sample Location Map**

From: Carl Dowthwaite
To: Anderson, Candice
Date: 7/02/2011 9:26:28 am
Subject: Urgent Historical Title Search

Candice,

Could you please undertake a Historical Title Search for 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032).

Scan and send to me today thanks

Regards,

Carl Dowthwaite
Environmental Officer

Water and Environment
Brisbane City Council - City Design
Ph: 3027 4726 | Fax: 3334 0071
Email: carl.dowthwaite@brisbane.qld.gov.au

CC: Dekker, Erik

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704127834

BE 494

NO FEE
23/08/2000 15:58

(Desig. No.)

WARNING : Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

Registered

s. Lodged by

~~Wally Cowley~~
Senior Property Analyst
Portfolio and Housing Unit
Department of Public Works
GPO Box 2437, Brisbane Q 4001
Phone: 3404 3287

Bernie Maguire
Property Services
Unit 14, AXA
Ph: X78110

(Include address, phone number, reference, and Lodger Code)

525

1 Certificate of Registered Owners or Lessees.

I/We

(Names in full)

*as Registered Owners of this land agree to this plan and dedicate the Public Use Land as shown hereon in accordance with Section 50 of the Land Title Act 1994.

*as Lessees of this land agree to this plan.

Signature of *Registered Owners *Lessees

APPROVED

s.73 Irrelevant

s.73

Douglas James Fergusson
Delegate of the Minister for Natural Resources

* Rule out whichever is inapplicable

2 Local Government Approval.

hereby approves this plan in accordance with the:

%

Dated this

day of

* Insert the name of the Local Government
% Insert designation of signatory or delegation

% Insert Integrated Planning Act 1997 or
Local Government (Planning & Environment) Act 1990

3 Plans with Community Management Statement :

CMS Number :

Name :

References :

Dupe File : BR1/000369

Local Govt :

Surveyor : TA 2283-00

ESAs 8A,
9A, 10 & 11
and Allot 2
of Sec. 63

4

Orig

Lots

7 Portion Allocation :

8 Map Reference :

9543-33313

9 Locality :

FORTITUDE VALLEY

10 Local Government :

BRISBANE C. C.

11 Passed & Endorsed :

By : Kellar Fox & McGhie Pty. Ltd.
ACN 010 182 197

Date :

Signed :

Designation : Liaison Officer

12 Building Format Plans only.

I certify that :

- * As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;
- * Part of the building shown on this plan encroaches onto adjoining * lots and road

Licensed Surveyor/Director * Date
* delete words not required

13. Lodgement Fees :

Survey Deposit

Lodgement

New Titles

Photocopy

Postage

TOTAL

s. 87-00

14 Insert
Plan
Number

SP128032

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906021

Search Date: 07/02/2011 10:12

Title Reference: 50323249

Date Created: 31/07/2000

Previous Title: 40025609

REGISTERED OWNER

Dealing No: 707890862 14/07/2004

BRISBANE CITY COUNCIL

TRANSFER No 707890862

BRISBANE CITY COUNCIL

Lodged at 13:58 on 14/07/2004

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES

Dealing	Type	Lodgement Date	Status
713597367	HERITGE SITE	30/11/2010 11:14	CURRENT
QUEENSLAND HERITAGE ACT 1992			

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Historical Title Search **

COPYRIGHT THE STATE OF QUEENSLAND (ENVIRONMENT AND RESOURCE MANAGEMENT) [2011]
Requested By: External Supervisor

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

This Title Has Been Fully Cancelled.

[Form 1.1] Title Reference: 40025609

QUEENSLAND

DEED OF GRANT OF LAND

Land Act 1994

Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

WE, with the advice of the Executive Council, under the Land Act 1994,
grant in fee simple all that parcel of land described in Schedule 1 to the
person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other
reservations and conditions as may be contained in and declared by the
laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

REGISTERED OWNER

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT
OF PUBLIC WORKS - GLR 10891)

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. REQUEST FOR INDEFEASIBLE TITLE No 704219938
An Indefeasible Title is requested for the land
Lodged at 10:05 on 28/07/2000
2. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES - NIL
UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

COPYRIGHT THE STATE OF QUEENSLAND (ENVIRONMENT AND RESOURCE MANAGEMENT) [2011]
Requested By: External Supervisor

[Form 1.1]

Title Reference: 40025609



QUEENSLAND

DEED OF GRANT OF LAND



40025609

Land Act 1994

Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

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WE, with the advice of the Executive Council, under the Land Act 1994, grant in fee simple all that parcel of land described in Schedule 1 to the person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other reservations and conditions as may be contained in and declared by the laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

SCHEDULE 1 - DESCRIPTION OF LAND

Lot/Plan 4/SP128032	County STANLEY	Parish NORTH BRISBANE
Area 2.594 Ha.		

s.73 Irrelevant information

Note: For details of description, dimensions and marking of boundaries refer to plan mentioned above.

SCHEDULE 2 - GRANTEE

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT OF PUBLIC WORKS - GLR 10891)

Attachment C

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Table 1: Summary of Soil Analysis Results

ANALYTE	Units	LOR	Assessment Guidelines		HSW1	HSW2	HSW3	HSW4	HSW5	HSW7	HSW9	HSW11	HSW13	HSW15	HSW17	HSW19	HSW21	HSW23	HSW24	HSW27	HSW29	HSW31	HSW32	HSW33	HSW34	HSW35	HSW36	HSW37	HSW38	HSW39	HSW40
			ETIL	HIL "A"																											
Moisture Content																															
Moisture Content (dried @ 103°C)	%	1.0	-	-	20	21	17	19	16	16	17	17	25	13	19	18	22	20	20	2.1	4.2	8.5	5.8	20	19	18	18	12	11	6.8	15
Total Metals																															
Arsenic	mg/kg	5	20	100	15	7.7	11	8.4	14	28	8.6	6.9	31	11	7	6.9	8.9	7.1	10	9.7	12	5.9	16	13	7.7	6.7	9.2	16	8	<2	15
Cadmium	mg/kg	1	3	20	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8
Chromium	mg/kg	2	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	5.1	5.2	<5	<5	<5	<5
Copper	mg/kg	5	60	1000	24	17	25	21	23	23	20	18	930	47	16	14	25	27	22	27	13	9.1	23	32	25	29	910	9.7	10	19	32
Lead	mg/kg	5	600	300	100	120	130	140	120	120	420	120	110	400	110	94	140	140	160	170	83	85	140	180	180	170	160	41	25	15	320
Nickel	mg/kg	2	60	600	8.2	<5	7	5.4	5.6	17	5.3	<5	<5	5.7	<5	<5	7.3	5.6	<5	9.5	<5	<5	5.4	6.6	7.6	11	19	6	8.6	9.5	11
Zinc	mg/kg	5	200	7000	580	500	1000	690	730	920	810	700	470	950	430	350	810	880	740	650	160	190	540	1500	1600	1900	1500	310	160	89	3000
Mercury																															
Mercury	mg/kg	0.1	1	15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.8	0.1	0.1	<0.1	<0.1	<0.1	0.1
Polynuclear Aromatic Hydrocarbons																															
Acenaphthene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Acenaphthylene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Anthracene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Benzo(a)anthracene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.5	-	<1	-	0.2	-	0.2	-	0.2	-	0.1	-	0.2	-	0.2	-	0.2	-	<0.1	-	-
Benzo(a)pyrene	mg/kg	0.5	-	1	0.1	-	0.2	-	0.1	-	0.4	-	<1	-	0.2	-	0.1	-	0.1	-	0.2	-	0.2	-	0.2	-	0.2	-	<0.1	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.4	-	<1	-	0.2	-	0.1	-	0.2	-	0.2	-	0.2	-	0.2	-	0.3	-	<0.1	-	-
Benzo(g,h,i)perylene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.2	-	0.3	-	<1	-	0.1	-	<0.1	-	0.1	-	0.2	-	0.2	-	0.2	-	0.2	-	<0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	<0.1	-	0.1	-	<0.1	-	0.2	-	<1	-	0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	0.1	-	<0.1	-	-
Chrysene	mg/kg	0.5	-	-	<0.1	-	0.2	-	0.1	-	0.4	-	<1	-	0.2	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.2	-	<0.1	-	-
Dibenz(a,h)anthracene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Fluoranthene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.8	-	<1	-	0.2	-	0.2	-	0.2	-	0.2	-	0.2	-	0.2	-	0.3	-	<0.1	-	-
Fluorene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.1	-	0.3	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Naphthalene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Phenanthrene	mg/kg	0.5	-	-	<0.1	-	0.1	-	<0.1	-	0.6	-	<1	-	0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-
Pyrene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.6	-	<1	-	0.2	-	0.2	-	0.2	-	0.2	-	0.2	-	0.2	-	0.2	-	<0.1	-	-
Total PAH	mg/kg	-	-	20	0.9	-	2	-	1.3	-	4.5	-	<1	-	1.6	-	0.9	-	1.1	-	1.3	-	1.4	-	2	-	-	<0.1	-	-	-

Notes:

ETIL	Urban Ecological Investigation Threshold Levels (NEPM, 1999)
HIL "A"	Health Based Investigation Level - "Standard Residential with Garden Accessible Soil" (NEPM 1999)
-	Not Available/Not Relevant

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Attachment D

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Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

Attention: Carl Douthwaite

Report
Client Reference
Received Date

288896-S
Howard Smith Wharf Disposal Permit
Feb 01, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 1261

The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement.
This document shall not be reproduced, except in full.

Client Sample ID			HSW1	HSW2	HSW3	HSW4
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50221	11-FE50222	11-FE50223	11-FE50224
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.1	-	0.2	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.1	-
Chrysene	0.1	mg/kg	< 0.1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.1	-	0.3	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.2	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.1	-
Pyrene	0.1	mg/kg	0.1	-	0.3	-
Total PAH	0.1	mg/kg	0.90	-	2.0	-
p-Terphenyl-d14 (surr.)	1	%	93	-	116	-
2-Fluorobiphenyl (surr.)	1	%	104	-	128	-
% Moisture	0.1	%	20	21	17	19
Heavy Metals (7)						
Arsenic	2	mg/kg	15	7.7	11	8.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	24	17	25	21
Lead	5	mg/kg	100	120	130	140
Nickel	5	mg/kg	8.2	< 5	7.0	5.4
Zinc	5	mg/kg	580	500	1000	690
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW5	HSW7	HSW9	HSW11
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50225	11-FE50227	11-FE50229	11-FE50231
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.5	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.4	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.4	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	0.3	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.2	-
Chrysene	0.1	mg/kg	0.1	-	0.4	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.8	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.3	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.6	-
Pyrene	0.1	mg/kg	0.2	-	0.6	-
Total PAH	0.1	mg/kg	1.3	-	4.5	-
p-Terphenyl-d14 (surr.)	1	%	104	-	88	-
2-Fluorobiphenyl (surr.)	1	%	120	-	103	-
% Moisture	0.1	%	16	18	17	17
Heavy Metals (7)						
Arsenic	2	mg/kg	14	28	8.6	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	23	23	20	18
Lead	5	mg/kg	120	120	420	120
Nickel	5	mg/kg	5.6	17	5.3	< 5
Zinc	5	mg/kg	730	920	810	700
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW13	HSW15	HSW17	HSW19
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50233	11-FE50235	11-FE50237	11-FE50239
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	< 1	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	< 1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 1	-	0.1	-
Chrysene	0.1	mg/kg	< 1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Fluorene	0.1	mg/kg	< 1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 1	-	0.1	-
Naphthalene	0.1	mg/kg	< 1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 1	-	0.1	-
Pyrene	0.1	mg/kg	< 1	-	0.2	-
Total PAH	0.1	mg/kg	< 1	-	1.6	-
p-Terphenyl-d14 (surr.)	1	%	77	-	98	-
2-Fluorobiphenyl (surr.)	1	%	93	-	111	-
% Moisture	0.1	%	25	13	19	18
Heavy Metals (7)						
Arsenic	2	mg/kg	31	11	7.0	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	930	47	16	14
Lead	5	mg/kg	110	400	110	94
Nickel	5	mg/kg	< 5	5.7	< 5	< 5
Zinc	5	mg/kg	470	950	430	350
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1

Client Sample ID			HSW21	HSW23	HSW24	HSW27
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50241	11-FE50243	11-FE50244	11-FE50247
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.1	-
Benzo(b)fluoranthene	0.1	mg/kg	0.1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Chrysene	0.1	mg/kg	0.1	-	0.1	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Pyrene	0.1	mg/kg	0.2	-	0.2	-
Total PAH	0.1	mg/kg	0.90	-	1.1	-
p-Terphenyl-d14 (surr.)	1	%	96	-	98	-
2-Fluorobiphenyl (surr.)	1	%	112	-	111	-
% Moisture	0.1	%	22	20	20	2.1
Heavy Metals (7)						
Arsenic	2	mg/kg	8.9	7.1	10	9.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	25	27	22	27
Lead	5	mg/kg	140	140	160	170
Nickel	5	mg/kg	7.3	5.6	< 5	9.5
Zinc	5	mg/kg	810	880	740	650
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW29	HSW31	HSW32	HSW33
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50249	11-FE50251	11-FE50252	11-FE50253
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Acenaphthylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Benz(a)anthracene	0.1	mg/kg	0.1	-	-	0.2
Benzo(a)pyrene	0.1	mg/kg	0.2	-	-	0.2
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	-	0.2
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Chrysene	0.1	mg/kg	0.1	-	-	0.1
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Fluorene	0.1	mg/kg	< 0.1	-	-	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	-	0.1
Naphthalene	0.1	mg/kg	< 0.1	-	-	< 0.1
Phenanthrene	0.1	mg/kg	< 0.1	-	-	< 0.1
Pyrene	0.1	mg/kg	0.2	-	-	0.2
Total PAH	0.1	mg/kg	1.3	-	-	1.4
p-Terphenyl-d14 (surr.)	1	%	89	-	-	96
2-Fluorobiphenyl (surr.)	1	%	103	-	-	113
% Moisture	0.1	%	4.2	8.5	5.8	20
Heavy Metals (7)						
Arsenic	2	mg/kg	12	5.9	16	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	13	9.1	23	32
Lead	5	mg/kg	83	85	140	180
Nickel	5	mg/kg	< 5	< 5	5.4	6.6
Zinc	5	mg/kg	160	190	540	1500
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	0.1	0.1

Client Sample ID			HSW34	HSW35	HSW36	HSW37
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50254	11-FE50255	11-FE50256	11-FE50257
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	-	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	-	< 0.1	-	-
Anthracene	0.1	mg/kg	-	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	-	0.2	-	-
Benzo(a)pyrene	0.1	mg/kg	-	0.2	-	-
Benzo(b)fluoranthene	0.1	mg/kg	-	0.3	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	-	0.2	-	-
Benzo(k)fluoranthene	0.1	mg/kg	-	0.1	-	-
Chrysene	0.1	mg/kg	-	0.2	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	-	< 0.1	-	-
Fluoranthene	0.1	mg/kg	-	0.3	-	-
Fluorene	0.1	mg/kg	-	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	-	0.2	-	-
Naphthalene	0.1	mg/kg	-	< 0.1	-	-
Phenanthrene	0.1	mg/kg	-	0.1	-	-
Pyrene	0.1	mg/kg	-	0.2	-	-
Total PAH	0.1	mg/kg	-	2.0	-	-
p-Terphenyl-d14 (surr.)	1	%	-	95	-	-
2-Fluorobiphenyl (surr.)	1	%	-	110	-	-
% Moisture	0.1	%	19	18	18	12
Heavy Metals (7)						
Arsenic	2	mg/kg	7.7	6.7	9.2	16
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	8.0	5.1	5.2	< 5
Copper	5	mg/kg	25	29	910	9.7
Lead	5	mg/kg	180	170	160	41
Nickel	5	mg/kg	7.6	11	19	6.0
Zinc	5	mg/kg	1600	1900	1500	310
Heavy Metals						
Mercury	0.1	mg/kg	0.8	0.1	0.1	< 0.1

Client Sample ID			HSW38	HSW39	HSW40
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50258	11-FE50259	11-FE50260
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	-
Anthracene	0.1	mg/kg	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	< 0.1	-	-
Benzo(a)pyrene	0.1	mg/kg	< 0.1	-	-
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-
Chrysene	0.1	mg/kg	< 0.1	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-
Fluoranthene	0.1	mg/kg	< 0.1	-	-
Fluorene	0.1	mg/kg	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	-
Naphthalene	0.1	mg/kg	< 0.1	-	-
Phenanthrene	0.1	mg/kg	< 0.1	-	-
Pyrene	0.1	mg/kg	< 0.1	-	-
Total PAH	0.1	mg/kg	< 0.1	-	-
p-Terphenyl-d14 (surr.)	1	%	92	-	-
2-Fluorobiphenyl (surr.)	1	%	107	-	-
% Moisture	0.1	%	11	6.8	15
Heavy Metals (7)					
Arsenic	2	mg/kg	8.0	< 2	15
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.8
Chromium	5	mg/kg	< 5	< 5	< 5
Copper	5	mg/kg	10	19	32
Lead	5	mg/kg	25	15	320
Nickel	5	mg/kg	8.6	9.5	11
Zinc	5	mg/kg	160	89	3000
Heavy Metals					
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Oakleigh	Feb 02, 2011	14 Day
- Method: USEPA 8270C Polycyclic Aromatic Hydrocarbons			
% Moisture	Oakleigh	Feb 02, 2011	14 Day
- Method: Method 102 - ANZECC - % Moisture			
Heavy Metals (7)	Oakleigh	Feb 02, 2011	6 Month
- Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury			
Heavy Metals	Oakleigh	Feb 02, 2011	28 Day
- Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury			

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288896
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Douthwaite

Client Job No.: Howard Smith Wharf Disposal Permit

mgt-LabMark Client Manager: s.73 Irrel

Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
HSW1	Jan 27, 2011		Soil	M11-FE50221	X		X	X	X
HSW2	Jan 27, 2011		Soil	M11-FE50222	X		X		X
HSW3	Jan 27, 2011		Soil	M11-FE50223	X		X	X	X
HSW4	Jan 27, 2011		Soil	M11-FE50224	X		X		X
HSW5	Jan 27, 2011		Soil	M11-FE50225	X		X	X	X
HSW6	Jan 27, 2011		Soil	M11-FE50226		X			
HSW7	Jan 27, 2011		Soil	M11-FE50227	X		X		X
HSW8	Jan 27, 2011		Soil	M11-FE50228		X			
HSW9	Jan 27, 2011		Soil	M11-FE50229	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW10	Jan 27, 2011		Soil	M11-FE50230		X			
HSW11	Jan 27, 2011		Soil	M11-FE50231	X		X		X
HSW12	Jan 27, 2011		Soil	M11-FE50232		X			
HSW13	Jan 27, 2011		Soil	M11-FE50233	X		X	X	X
HSW14	Jan 27, 2011		Soil	M11-FE50234		X			
HSW15	Jan 27, 2011		Soil	M11-FE50235	X		X		X
HSW16	Jan 27, 2011		Soil	M11-FE50236		X			
HSW17	Jan 27, 2011		Soil	M11-FE50237	X		X	X	X
HSW18	Jan 27, 2011		Soil	M11-FE50238		X			
HSW19	Jan 27, 2011		Soil	M11-FE50239	X		X		X

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mgt-LabMark Client Manager s.73 Irreleva

Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW20	Jan 27, 2011		Soil	M11-FE50240		X			
HSW21	Jan 27, 2011		Soil	M11-FE50241	X		X	X	X
HSW22	Jan 27, 2011		Soil	M11-FE50242		X			
HSW23	Jan 27, 2011		Soil	M11-FE50243	X		X		X
HSW24	Jan 27, 2011		Soil	M11-FE50244	X		X	X	X
HSW25	Jan 27, 2011		Soil	M11-FE50245		X			
HSW26	Jan 27, 2011		Soil	M11-FE50246		X			
HSW27	Jan 27, 2011		Soil	M11-FE50247	X		X		X
HSW28	Jan 27, 2011		Soil	M11-FE50248		X			
HSW29	Jan 27, 2011		Soil	M11-FE50249	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW30	Jan 27, 2011		Soil	M11-FE50250		X			
HSW31	Jan 27, 2011		Soil	M11-FE50251	X		X		X
HSW32	Jan 27, 2011		Soil	M11-FE50252	X		X		X
HSW33	Jan 27, 2011		Soil	M11-FE50253	X		X	X	X
HSW34	Jan 27, 2011		Soil	M11-FE50254	X		X		X
HSW35	Jan 27, 2011		Soil	M11-FE50255	X		X	X	X
HSW36	Jan 27, 2011		Soil	M11-FE50256	X		X		X
HSW37	Jan 27, 2011		Soil	M11-FE50257	X		X		X
HSW38	Jan 27, 2011		Soil	M11-FE50258	X		X	X	X
HSW39	Jan 27, 2011		Soil	M11-FE50259	X		X		X

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288896
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Dowthwaite

Client Job No.: Howard Smith Wharf Disposal Permit

mgt-LabMark Client Manager: s.73 Irrel

Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW40	Jan 27, 2011		Soil	M11-FE50260	X		X		X
HSW41	Jan 27, 2011		Soil	M11-FE50261		X			
HSW42	Jan 27, 2011		Soil	M11-FE50262		X			

mgt-LabMark Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A						
Acenaphthene	mg/kg	< 0.1		0.1	Pass	
Acenaphthylene	mg/kg	< 0.1		0.1	Pass	
Anthracene	mg/kg	< 0.1		0.1	Pass	
Benz(a)anthracene	mg/kg	< 0.1		0.1	Pass	
Benzo(a)pyrene	mg/kg	< 0.1		0.1	Pass	
Benzo(b)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.1		0.1	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Chrysene	mg/kg	< 0.1		0.1	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1		0.1	Pass	
Fluoranthene	mg/kg	< 0.1		0.1	Pass	
Fluorene	mg/kg	< 0.1		0.1	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1		0.1	Pass	
Naphthalene	mg/kg	< 0.1		0.1	Pass	
Phenanthrene	mg/kg	< 0.1		0.1	Pass	
Pyrene	mg/kg	< 0.1		0.1	Pass	
Method Blank						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71 Me						
Arsenic	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.5		0.5	Pass	
Chromium	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Nickel	mg/kg	< 5		5	Pass	
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me						
Mercury	mg/kg	< 0.1		0.1	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A						
Acenaphthene	%	100		70-130	Pass	
Acenaphthylene	%	103		70-130	Pass	
Anthracene	%	109		70-130	Pass	
Benz(a)anthracene	%	93		70-130	Pass	
Benzo(a)pyrene	%	108		70-130	Pass	
Benzo(b)fluoranthene	%	99		70-130	Pass	
Benzo(g,h,i)perylene	%	108		70-130	Pass	
Benzo(k)fluoranthene	%	103		70-130	Pass	
Chrysene	%	103		70-130	Pass	
Dibenz(a,h)anthracene	%	120		70-130	Pass	
Fluoranthene	%	93		70-130	Pass	
Fluorene	%	105		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	108		70-130	Pass	
Naphthalene	%	100		70-130	Pass	
Phenanthrene	%	107		70-130	Pass	
Pyrene	%	95		70-130	Pass	
LCS - % Recovery						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71 Me						
Arsenic	%	112		80-120	Pass	
Cadmium	%	95		80-120	Pass	
Chromium	%	90		80-120	Pass	
Nickel	%	91		80-120	Pass	
LCS - % Recovery						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me						
Mercury	%	103		75-125	Pass	
[Duplicate of 11-FE50221]						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Acenaphthylene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Benz(a)anthracene	mg/kg	0.2	0.1	6	30%	Pass
Benzo(a)pyrene	mg/kg	0.1	0.1	6	30%	Pass

Sample, Test, Result Reference	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Codes
Benzo(b)fluoranthene	mg/kg	0.2	0.1	15	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.1	0.2	3	30%	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1	< 0.1	8	30%	Pass	
Chrysene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Fluoranthene	mg/kg	0.1	0.1	4	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	< 0.1	2	30%	Pass	
Naphthalene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Phenanthrene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Pyrene	mg/kg	0.1	0.1	2	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals (7)							
Arsenic	mg/kg	15	9.8	42	30%	Fail	Q15
Cadmium	mg/kg	< 0.5	< 0.5	< 1	30%	Pass	
Chromium	mg/kg	< 5	< 5	< 1	30%	Pass	
Copper	mg/kg	24	22	8	30%	Pass	
Lead	mg/kg	100	130	25	30%	Pass	
Nickel	mg/kg	8.2	5	48	30%	Fail	Q15
Zinc	mg/kg	580	490	15	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals							
Mercury	mg/kg	Result 1	Result 2	RPD			
[Duplicate of 11-FE50237]							
Heavy Metals (7)							
Arsenic	mg/kg	7	8	13	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	< 1	30%	Pass	
Chromium	mg/kg	< 5	< 5	< 1	30%	Pass	
Copper	mg/kg	16	17	7	30%	Pass	
Lead	mg/kg	110	110	7	30%	Pass	
Nickel	mg/kg	< 5	5.9	40	30%	Fail	Q15
Zinc	mg/kg	430	430	1	30%	Pass	
[Duplicate of 11-FE50237]							
Heavy Metals							
Mercury	mg/kg	Result 1	Result 2	RPD			
[Duplicate of 11-FE50254]							
Heavy Metals (7)							
Arsenic	mg/kg	7.7	7.7	< 1	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	46	30%	Fail	Q15
Chromium	mg/kg	8	< 5	100	30%	Fail	Q15
Copper	mg/kg	25	23	6	30%	Pass	
Lead	mg/kg	180	160	13	30%	Pass	
Nickel	mg/kg	7.6	6.1	22	30%	Pass	
Zinc	mg/kg	1600	1300	18	30%	Pass	
[Duplicate of 11-FE50254]							
Heavy Metals							
Mercury	mg/kg	Result 1	Result 2	RPD			
[Duplicate of 11-FE50255]							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Acenaphthylene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Anthracene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Benzo(a)anthracene	mg/kg	0.2	0.2	3	30%	Pass	
Benzo(a)pyrene	mg/kg	0.2	0.2	4	30%	Pass	
Benzo(b)fluoranthene	mg/kg	0.3	0.2	18	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.2	0.2	1	30%	Pass	
Benzo(k)fluoranthene	mg/kg	0.1	0.1	1	30%	Pass	
Chrysene	mg/kg	0.2	0.2	6	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Fluoranthene	mg/kg	0.3	0.2	15	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Naphthalene	mg/kg	0.2	0.2	4	30%	Pass	
Phenanthrene	mg/kg	< 0.1	< 0.1	< 1	30%	Pass	
Pyrene	mg/kg	0.1	0.1	1	30%	Pass	
[Spike of 11-FE50221] - % Recovery							
Pyrene	mg/kg	0.2	0.2	11	30%	Pass	

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Polycyclic Aromatic Hydrocarbons		Result 1					
Acenaphthene	%	121			70 - 130	Pass	
Acenaphthylene	%	122			70 - 130	Pass	
Anthracene	%	117			70 - 130	Pass	
Benz(a)anthracene	%	116			70 - 130	Pass	
Benzo(a)pyrene	%	115			70 - 130	Pass	
Benzo(b)fluoranthene	%	119			70 - 130	Pass	
Benzo(g,h,i)perylene	%	98			70 - 130	Pass	
Benzo(k)fluoranthene	%	107			70 - 130	Pass	
Chrysene	%	123			70 - 130	Pass	
Dibenz(a,h)anthracene	%	97			70 - 130	Pass	
Fluoranthene	%	113			70 - 130	Pass	
Fluorene	%	125			70 - 130	Pass	
Indeno(1,2,3-cd)pyrene	%	95			70 - 130	Pass	
Naphthalene	%	114			70 - 130	Pass	
Phenanthrene	%	119			70 - 130	Pass	
Pyrene	%	114			70 - 130	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals (7)		Result 1					
Arsenic	%	82			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	82			75 - 125	Pass	
Copper	%	102			75 - 125	Pass	
Lead	%	80			75 - 125	Pass	
Nickel	%	75			75 - 125	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals		Result 1					
Mercury	%	90			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code Description

Q15 The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failing to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Attachment E

Published on DES Disclosure Log
RTI Act 2009

Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

Attention: Carl Douthwaite

Report 288922-S
Client Reference Howard Smith Wharf Disposal Permit - ASLP
Received Date Feb 01, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 1261

The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement.
This document shall not be reproduced, except in full.

Client Sample ID			HSW1-26	HSW27-32	HSW33-42
Sample Matrix			ASLP - pH 5.0	ASLP - pH 5.0	ASLP - pH 5.0
mgt-LabMark Sample No.			11-FE50481	11-FE50482	11-FE50483
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit			
% Moisture	0.1	%	20	5.8	17
Heavy Metals (7)					
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Copper	0.01	mg/L	0.01	0.02	0.01
Lead	0.01	mg/L	0.21	0.08	0.16
Nickel	0.01	mg/L	0.01	< 0.01	0.02
Zinc	0.01	mg/L	6.0	2.3	13
Australian Standard Leaching Procedure (ASLP)					
Leachate Fluid		comment	1.0	1.0	1.0
pH (ASLP - off)	0.1	units	5.3	5.2	5.2
pH (Leachate fluid)	0.1	units	5.0	5.0	5.0
Heavy Metals					
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
% Moisture - Method: Method 102 - ANZECC - % Moisture	Oakleigh	Feb 03, 2011	14 Day
Heavy Metals (7) - Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 03, 2011	6 Month
Heavy Metals - Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 03, 2011	28 Day

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288922
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Douthwaite

Client Job No.: Howard Smith Wharf Disposal Permit - ASLP

mgt-LabMark Client Manager: s.73 Irrelev

Sample Detail					% Moisture	Mercury	Heavy Metals (7)	Australian Standard Leaching Procedure (ASLP)
Laboratory where analysis is conducted								
Oakleigh Laboratory - NATA Site #1261					X	X	X	X
Thornleigh Laboratory - NATA Site #18217								
Asquith Laboratory - NATA Site #13535								
Clayton Laboratory - NATA Site #1645								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
HSW1-26	Jan 27, 2011		ASLP - pH 5.0	M11-FE50481	X	X	X	X
HSW27-32	Jan 27, 2011		ASLP - pH 5.0	M11-FE50482	X	X	X	X
HSW33-42	Jan 27, 2011		ASLP - pH 5.0	M11-FE50483	X	X	X	X

mgt-LabMark Internal Quality Control Review

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4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

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For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
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ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

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RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

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Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.01			0.01	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me							
Mercury	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71		Result 1					
Arsenic	%	97			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	97			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me		Result 1					
Mercury	%	86			75-125	Pass	
[Duplicate of 11-FE00310 - BATCH]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/L	0.024	0.025	6.3	30%	Pass	
Cadmium	mg/L	< 0.01	< 0.01	39	30%	Fail	Q15
Chromium	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	mg/L	0.021	0.021	1.4	30%	Pass	
Lead	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nickel	mg/L	< 0.01	< 0.01	4.9	30%	Pass	
Zinc	mg/L	0.57	0.59	2	30%	Pass	
[Duplicate of 11-FE00903 - BATCH]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/L	< 0.001	< 0.001	<1	30%	Pass	
[Spike of 11-FE00310 - BATCH] - % Recovery							
Heavy Metals (7)		Result 1					
Arsenic	%	96			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	94			75 - 125	Pass	
Copper	%	90			75 - 125	Pass	
Lead	%	91			75 - 125	Pass	
Nickel	%	90			75 - 125	Pass	
Zinc	%	98			75 - 125	Pass	
[Spike of 11-FE00903 - BATCH] - % Recovery							
Heavy Metals		Result 1					
Mercury	%	98			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant i

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Memorandum

To File File Reference BNE 38747 Vol 6
From GC
Subject Howard Smith Wharf SMP Date 26/8/11
Notes

I spoke to Greg McPherson of BC regarding the status of the SMP, noting the decision of the Local Gov Minister in early Aug 2011.

It was agreed that, given the decision of the local government Minister that the current/proposed development would not be allowed to proceed, and that the proposed development included ~~residential~~ commercial use, it was not necessary to proceed with the SMP.

Therefore the site is to remain on the EMR. The draft SMP is to be filed, awaiting any deliberations on proposed future development.

Action : No action required
phase send files to storage.

s.73 Irrelevant information



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Deputy Premier and Attorney-General, Minister for Local Government and Special Minister of State The Honourable Paul Lucas

Wednesday, August 03, 2011

Lucas says no to Howard Smith Wharves

Deputy Premier and Local Government Minister Paul Lucas today announced that a Brisbane City Council proposal to develop the Howard Smith Wharves precinct would not be approved by the State Government.

Mr Lucas said that events in January had highlighted very obvious problems and risks with the proposed plan for the area which included commercial and retail development on a flood prone site.

"It was clearly unacceptable to be proposing such a development in an area so prone to flooding," Mr Lucas said.

"Post the flood, the Council has worked well with the State government in relation to a Temporary Local Planning Instrument to deal with flooding issues pending the final deliberations of the Commission of Inquiry.

"But the Howard Smith Wharves site wasn't partially inundated, it was essentially totally

inundated.

"It makes no sense whatsoever to allow the amendments put forward by Brisbane City Council to proceed.

"The impact of the January floods is not to be disregarded just because Council is the land owner."

Mr Lucas said that he had previously approved local area plans in Brisbane, such as South Brisbane and Bulimba, which were partially, but not totally subjected to flooding in January 2011.

"In these plans, Council is required to acknowledge the January flood impacts, and to ensure any future recommendations of the Commission of Inquiry are considered and addressed when this information becomes available.

"For Howard Smith Wharves, the site was essentially 100% flood affected in January 2011, so it is not appropriate to approve this plan in the same manner and I will not be approving it.

"This is the same degree of caution and discretion applied recently by the Brisbane City Council in relation to the Mirvac site at Tennyson.

"This Tennyson site was completely inundated by the January floods and Council correctly acknowledged that it would be inappropriate for development to proceed as planned.

"Brisbane City Council felt that the flood impacts were so significant that they chose to purchase the land to be turned into parkland.

"I am exercising the same level of responsibility and consideration in my decision not to approve plans to build at Howard Smith Wharves.

"This Government's policy is to mitigate the adverse impacts of flooding, and that's what this decision does."

Member for Brisbane Central Grace Grace welcomed the decision and said there were important historical buildings on the Howard Smith Wharves site.

"Whatever we do with Howard Smith Wharves, we need to get it right," Ms Grace said.

"I'm sure that with thought and further community consultation, Brisbane City Council can come up with the appropriate mixture of tourist and community friendly uses that will make it a mecca, not a flood hazard."

Media contact: Kerry Manifold

s.73 Irrelevant information

Memo: Howard Smith Wharf Boundary Street, Fortitude Valley
Lot 400 on SL1404; Lot 2 on RP40998; Lot 2 on RP64992; Lots 1,2,3 and 4 on RP64991; Lot 6 on RP8569; Lots 3 & 4 on RP52849; Lot 4 on RP60570; Lot 2 on B3333; Lot21 on 44680; Lots 21 & 22 on RP8614; and Lot 4 on RP41821.

File Number: BNE 38747 vol 6

Introduction

This site has been subject to a stage 1 Preliminary site investigation including a site history; stage 2 detailed site investigation including sampling and testing for contaminants while defining contaminant boundaries; stage 3 health and environmental assessment and determination of remediation plan (if required) and stage 4 implementation of agreed remediation plan and validation sampling (if required).

Background

A plan of the site is included as Attachment 1.

- The site has been used as wharves particularly during WWII.
- The QLD Water Police were based in buildings 1 and 2 where an above ground diesel fuel tank was located adjacent to Building one and still in place.
- Building 3 has been used as general storage for the QLD Works Department.
- Building 4 has been used for servicing QLD Government vehicles. A garage with an UST was located at the eastern end and the presence of the tank is not known.
- An area outside the eastern end of Building 4 was used for diamond sawing of silica sandstone blocks. This process had a silica sandtrap to collect the effluent generated by the use of water for cooling purposes. The effluent was temporarily stored in holding tanks and removed off site by road tanker.
- A fenced off area opposite Building 4 was used for storing low level radio-active hospital waste including hospital gowns and equipment used in radio-active procedures such as X-Rays. This storage practice ceased 10 years ago. Bruce Wallace from Queensland Health advised radiation monitoring was carried out inside the storage shed BT QH in 1994 and further advised there was no evidence that radiation levels exceeded NHMRC Guidelines.
- Building 5 was used by QLD Police Diving Squad for general storage, tank and boat maintenance.

Issues

The lithology of the site ranged from sandy gravel and sandy clay to weathered rock Tuff and phyllite. While bore holes ranged from 0.2 m to 1.5 m with the majority of samples taken at 0.2m.

Samples were taken from 54 locations (33 samples were taken from the concrete hardstand) and analysed for heavy metals, pH, TPH, BTEX, PAH and OC/OP.

A plan of the site sampling is included as Attachment 2. Table 1 shows the elevated concentration levels that exceed the EIL levels as stipulated in the NEPC.

Table 1 Summary of samples that exceeded EIL

Sample	Depth (m)	C10-C14 ppm	C15-C28	As ppm	Cd ppm	Pb ppm	Zn ppm
BH1	0.2					380	680
BH4	0.1					520	490
BH7	0.35						1500
BH8	0.2						400
BH10	1.0					710	710
BH20	0.2				3.4	650	1400
BH21	0.2						270
BH22	0.2						350
BH23	0.2			21			
BH52	0.2	274	1830				540

The report states in the Executive Summary that based on the sampling results the site is suitable for high to medium density residential, commercial/industrial or open space/recreational uses.

Recommendation

The investigation report recommends that the site known as the Howard Smith Wharf Boundary Street, Fortitude Valley be managed under a Site Management Plan. A copy of the draft plans for Lot 4 on SP128032 and Lot3 on SP190810 is attached.

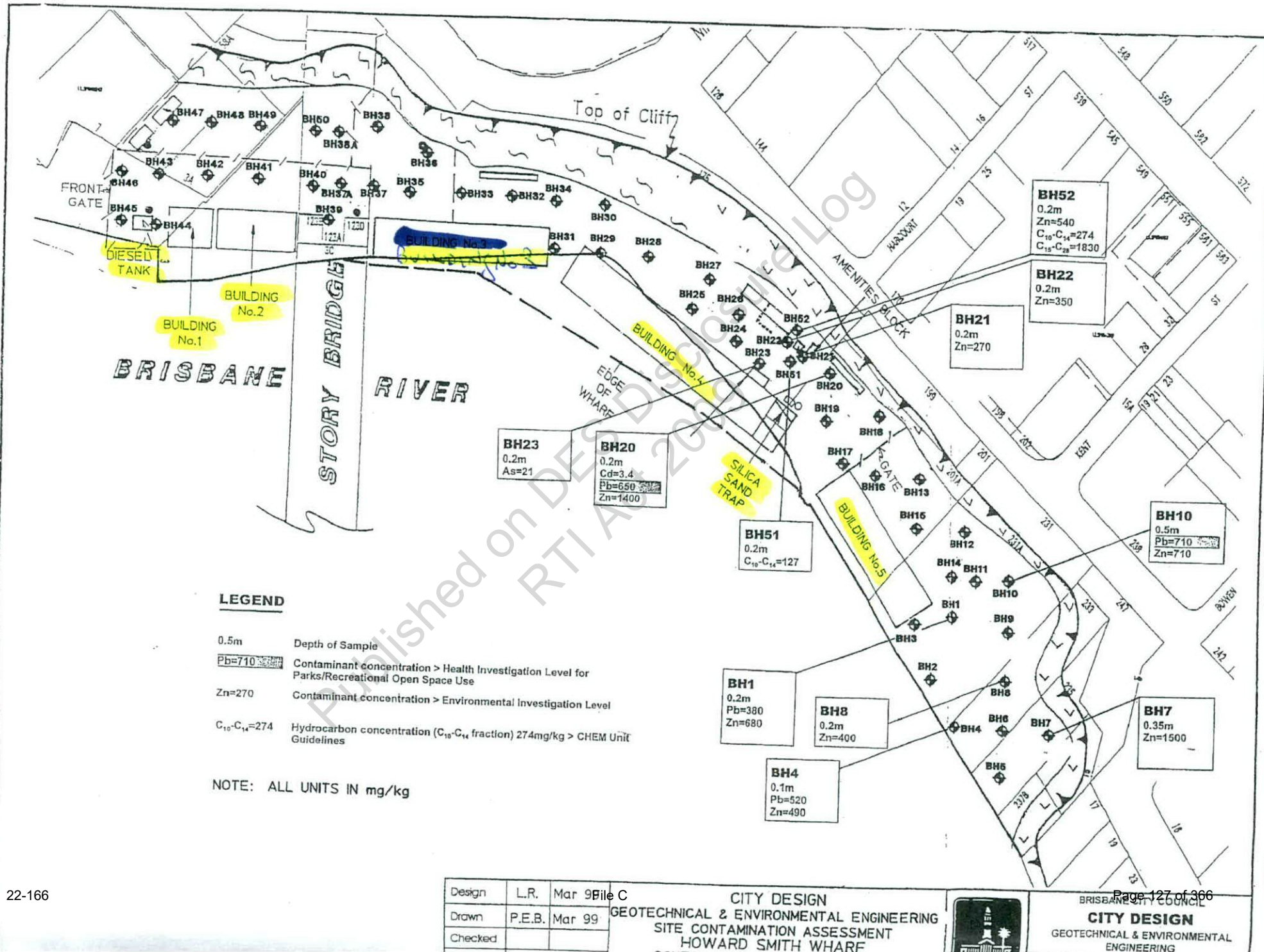
A Statutory Declaration made by Greg McPherson (who is a suitably qualified person for basic investigations) is also attached.

That the SMP's be approved to manage the site.

s.73 Irrelevant

Paul Ritchie
6/9/10

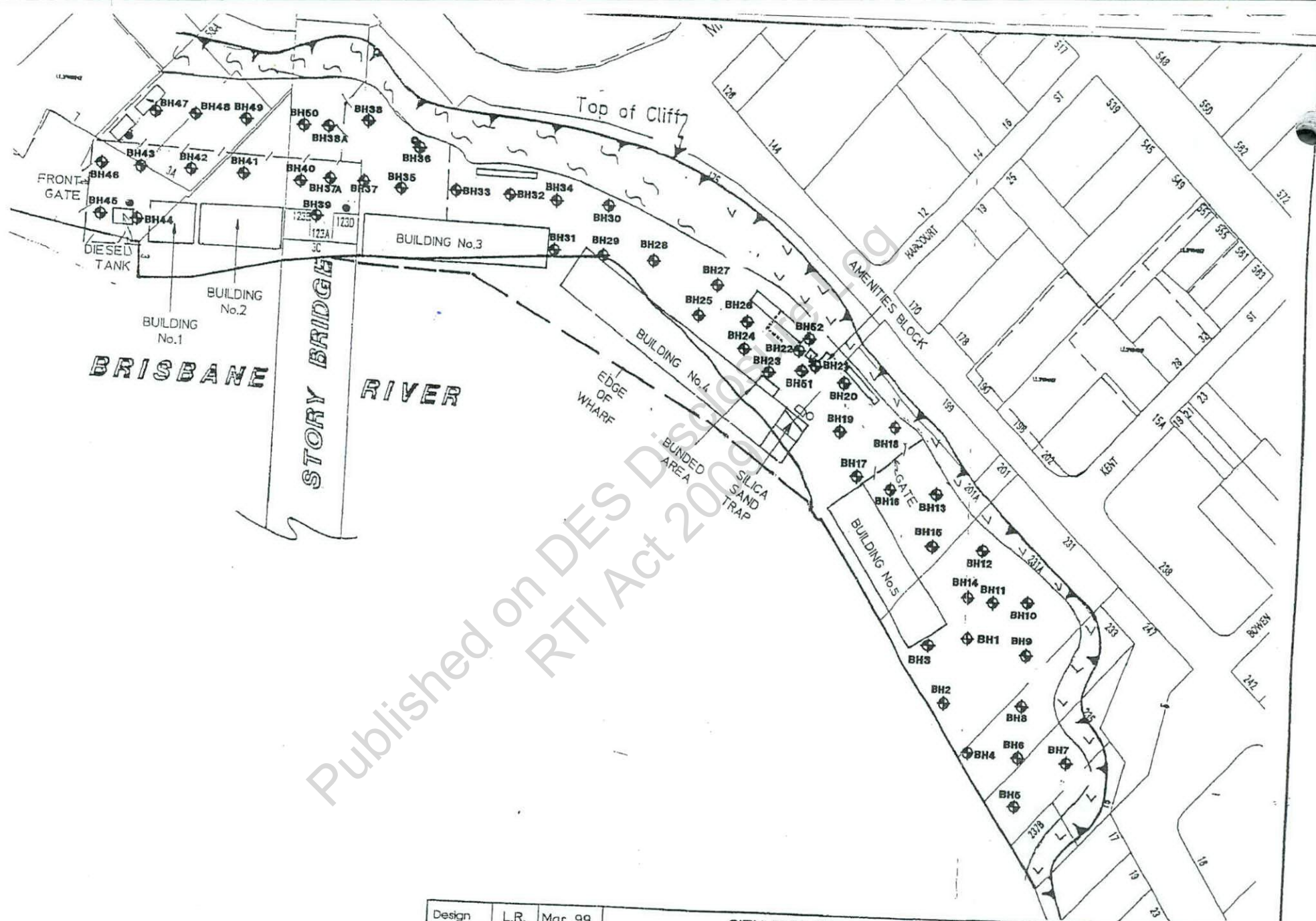
Attachment 1



1

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Attachment 2.



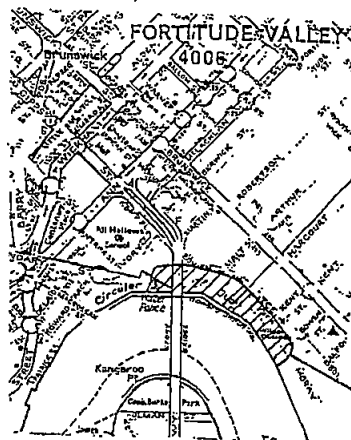
22-166

Design	L.R.	Mar 99
Drawn	P.E.B.	Mar 99
Checked		
Scale	1 : 1500	

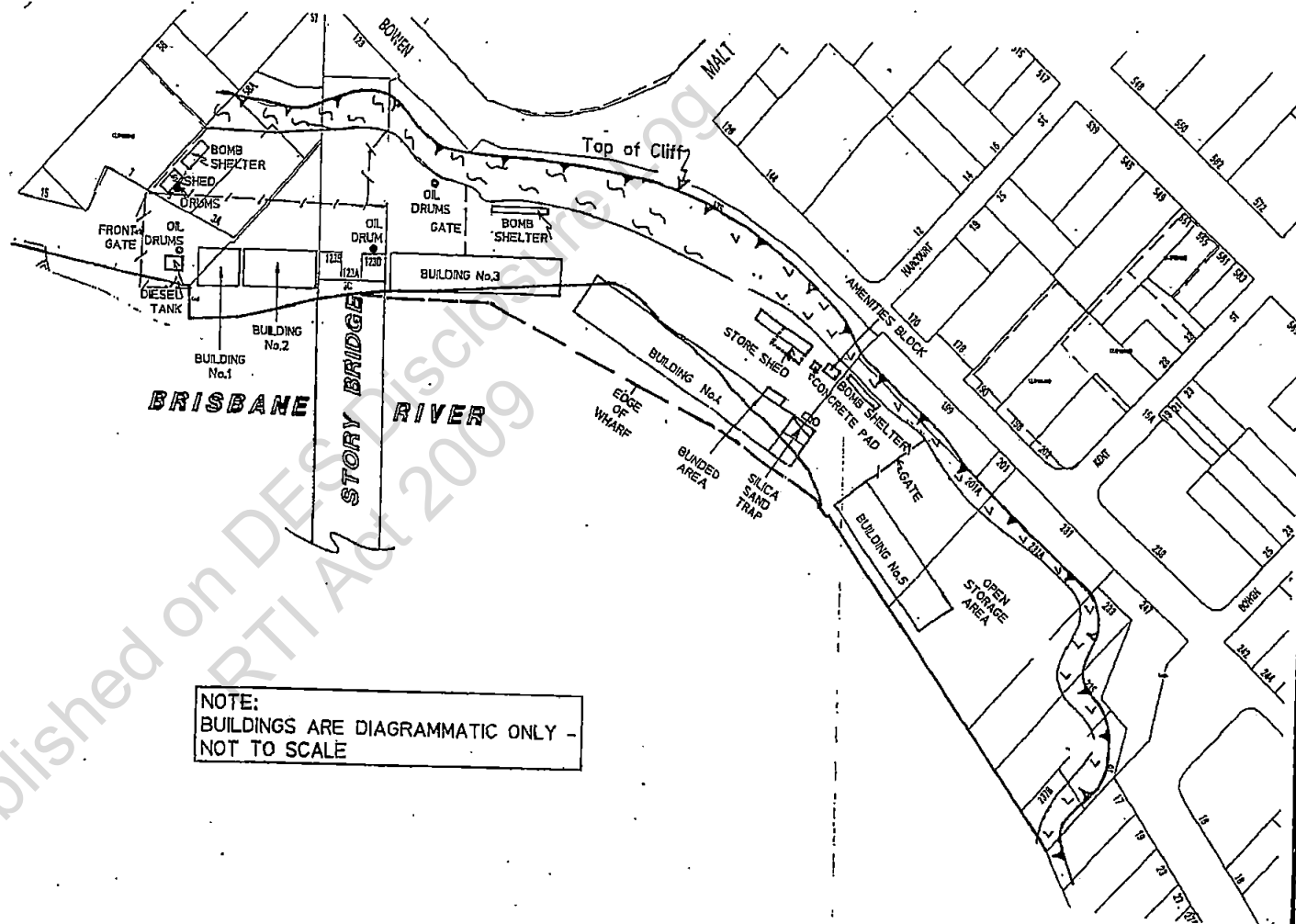
CITY DESIGN
 GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
 SITE CONTAMINATION ASSESSMENT
 HOWARD SMITH WHARF
 File C
 SAMPLING LOCATIONS



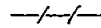
BRISBANE CITY COUNCIL
CITY DESIGN
 GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
 Project No.
 98155
 Figure No.
 2



LOCALITY PLAN



LEGEND

-  BRISBANE TUFF
-  NERANLEIGH-FERVALE BEDS
-  FENCE

NOTE:
BUILDINGS ARE DIAGRAMMATIC ONLY -
NOT TO SCALE

Design	L.R.	Jan 99
Drawn	P.E.B.	Jan 99
Checked		
Scale	1 : 2000	

CITY DESIGN
GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
SITE CONTAMINATION ASSESSMENT
HOWARD SMITH WHARF
SITE PLAN



BRISBANE CITY COUNCIL
City Design
GEOTECHNICAL & ENVIRONMENTAL
ENGINEERING

DRAFT SITE MANAGEMENT PLAN (SMP) -

LOT :4 PLAN : SP 128032 FILE REF : BNEXXXX

PRINTED:

DATE OF EFFECT:

1.0 SUMMARY OF CONTAMINATION

The site, Lot 4 SP 128032, 175 Bowen Terrace Fortitude Valley is currently used as a walkway with the remaining portion of the lot vacant and secured. The wharves on site were reportedly in use for most of last century and were also reportedly used in wartime by the Navy for ship maintenance and storage and loading of supplies. More recently (up to the late 1990s) the wharf buildings were used by various government departments to store various plant and equipment and to conduct maintenance and workshop activities. Low level radioactive materials such as medical equipment and consumables were stored on the site up until about 1989. A Queensland Health survey of the area where radioactive materials were stored reportedly cleared the area of any residual radioactivity at levels exceeding NHMRC guidelines. The site has largely remained vacant for the past 8 years.

Lot 4 is generally paved in concrete and bitumen with the exception of the wharf area which is constructed from timber. The site is characterised as a benched area between the southern face of a cliff/former quarry face and the Brisbane River. The bench area consists of a shallow layer (varying up to 1.0 metre) of fill overlying bedrock. The fill appears to predominantly consist of material consistent in terms of geological origin with the material observed in the cliff face.

The following maximum contaminants of concern were identified on the Howard Smith Wharf site of which Lot 4 on SP 128032 is part

arsenic 21 mg/kg
cadmium 3.4 mg/kg)
lead 710 mg/kg)
zinc 1500 mg/kg).
TPH (C₁₀-C₁₄ fraction) 274 mg/kg.
TPH (C₁₅-C₂₈ fraction) 1830 mg/kg.
Benzo(a)pyrene 1.9 mg/kg

These maximum contaminant contaminants were reported within shallow fill at the site.

2.0 OBJECTIVES OF THE SMP

The purpose of this SMP is to manage contamination on the site in a manner that protects human health and the environment.

3.0 ACHIEVEMENT AND MAINTENANCE OF OBJECTIVES

3.1 *Responsibility.* The owner of the land (as defined in the *Environmental Protection Act 1994*) is to ensure that this SMP and any variations approved or required by the administering authority are complied with. The obligations and conditions set out in this SMP bind the owner from time to time, of the land.

3.2 *Site Use.* The intended use of the site is for mixed use including commercial and open space and recreational use.

3.3 *Site Provision of SMP to appropriate persons.* The owner must provide all persons involved in building design and planning and all contractors and lessees conducting building and/or excavation works with a copy of the SMP prior to commencement of works. All persons occupying or working on the site must comply with the requirements of the SMP.

3.4 *Surface Capping and Protective Barriers.* As the contaminant levels are generally below levels that would pose a risk to human health and the environment given any use for the site there are no specific requirements to maintain surface capping or protective barriers over the site.

3.5 *Soil excavation & Removal.* Soil material excavated on the site should be assessed for contaminants of concern and/or physical properties to determine if the material is contaminated and to identify appropriate management and disposal/re-use options.

Representative sampling and analysis of soil from excavation in areas of fill must be managed by a suitably qualified and experienced person in accordance with Section 381 of the *Environmental Protection Act 1994* (EP Act). Contaminated soil must not be removed off-site without a disposal permit in accordance with Section 424 of the EP Act.

3.6 *Unexpected Contamination.* If during any site earthworks or excavation, offensive or noxious odours and/or evidence of gross contamination not previously detected is observed, site works are to cease in that area and action taken to immediately prevent or minimise environmental harm. The administering authority is to be notified in writing within two (2) business days of detection and advised of any remedial action undertaken.

Any remedial action is to be developed by an appropriately qualified and experienced person in accordance with Section 381 of the EP Act.

3.7 *General Environmental Protection.* All earthworks are to be undertaken in accordance with general environmental protection measures to avoid unwanted migration and deposition of soil. These measures include the control of dust, noise, stormwater runoff, sediment, erosion, spillage from haulage trucks and odour releases involving the handling or movement of contaminated material.

3.8 *Workplace Health and Safety.* A Workplace Health and Safety Plan (WH&S plan), which conforms to the requirements of the *Workplace Health and Safety Act 1995* is to be developed for any site excavation works in contaminated areas. The WH&S plan must specifically address contaminants of concern.

4.0 MONITORING AND REPORTING

Records are to be kept of any soil excavation in contaminated areas, disposal permits and site management plan compliance for review by the administering authority from time to time.

This Site Management Plan (SMP) has been developed to manage site contamination risks present at the issue date. Subsequent uses of the site may result in the need to review the plan.

DRAFT SITE MANAGEMENT PLAN (SMP) -

LOT 3 PLAN : SP 190810 FILE REF : BNEXXXX

PRINTED:

DATE OF EFFECT:

1.0 SUMMARY OF CONTAMINATION

The site, Lot 3 SP 190810, 5 Boundary Street Brisbane is currently used as a walkway with the remaining portion of the lot vacant and secured. The wharf area and buildings on the site had previously been used by the water police and police diving squad for administration and storage purposes as well as housing refuelling facilities.

Lot 3 is paved in concrete and bitumen with the exception of the wharf area which is constructed from timber. The site is characterised as a benched area between the southern face of a cliff/former quarry face and the Brisbane River. The bench area consists of a shallow layer (varying up to 1.0 metre) of fill overlying bedrock. The fill appears to predominantly consist of material consistent in terms of geological origin with the material observed in the cliff face.

The following maximum contaminants of concern were identified on the Howard Smith Wharf site of which Lot 3 on SP 190810 is part

arsenic 21 mg/kg

cadmium 3.4 mg/kg)

lead 710 mg/kg)

zinc 1500 mg/kg).

TPH (C₁₀-C₁₄ fraction) 274 mg/kg.

TPH (C₁₅-C₂₈ fraction) 1830 mg/kg.

Benzo(a)pyrene 1.9 mg/kg

These maximum contaminant contaminants were reported within shallow fill at the site.

2.0 OBJECTIVES OF THE SMP

The purpose of this SMP is to manage contamination on the site in a manner that protects human health and the environment.

3.0 ACHIEVEMENT AND MAINTENANCE OF OBJECTIVES

3.1 *Responsibility.* The owner of the land (as defined in the *Environmental Protection Act 1994*) is to ensure that this SMP and any variations approved or required by the administering authority are complied with. The obligations and conditions set out in this SMP bind the owner, from time to time, of the land.

3.2 *Site Use.* The intended use of the site is for mixed use including commercial and open space and recreational use.

3.3 *Site Provision of SMP to appropriate persons.* The owner must provide all persons involved in building design and planning and all contractors and lessees conducting building and/or excavation works with a copy of the SMP prior to commencement of works. All persons occupying or working on the site must comply with the requirements of the SMP.

3.4 *Surface Capping and Protective Barriers.* As the contaminant levels are generally below levels that would pose a risk to human health and the environment given any use for the site there are no specific requirements to maintain surface capping or protective barriers over the site.

3.5 *Soil excavation & Removal.* Soil material excavated on the site should be assessed for contaminants of concern and/or physical properties to determine if the material is contaminated and to identify appropriate management and disposal/re-use options.

Representative sampling and analysis of soil from excavation in areas of fill must be managed by a suitably qualified and experienced person in accordance with Section 381 of the *Environmental Protection Act 1994* (EP Act). Contaminated soil must not be removed off-site without a disposal permit in accordance with Section 424 of the EP Act.

3.6 *Unexpected Contamination.* If during any site earthworks or excavation, offensive or noxious odours and/or evidence of gross contamination not previously detected is observed, site works are to cease in that area and action taken to immediately prevent or minimise environmental harm. The administering authority is to be notified in writing within two (2) business days of detection and advised of any remedial action undertaken.

Any remedial action is to be developed by an appropriately qualified and experienced person in accordance with Section 381 of the EP Act.

3.7 *General Environmental Protection.* All earthworks are to be undertaken in accordance with general environmental protection measures to avoid unwanted migration and deposition of soil. These measures include the control of dust, noise, stormwater runoff, sediment, erosion, spillage from haulage trucks and odour releases involving the handling or movement of contaminated material.

3.8 *Workplace Health and Safety.* A Workplace Health and Safety Plan (WH&S plan), which conforms to the requirements of the *Workplace Health and Safety Act 1995* is to be developed for any site excavation works in contaminated areas. The WH&S plan must specifically address contaminants of concern.

4.0 MONITORING AND REPORTING

Records are to be kept of any soil excavation in contaminated areas, disposal permits and site management plan compliance for review by the administering authority from time to time.

This Site Management Plan (SMP) has been developed to manage site contamination risks present at the issue date. Subsequent uses of the site may result in the need to review the plan.

STATUTORY DECLARATION

(INVESTIGATION REPORT PREPARER)

Address of Site Investigated: 3 Boundary Street Brisbane, Queensland 4000 and 175 Bowen Terrace Fortitude Valley, Queensland 4006

Real Property Descriptions: Lot 3 on SP 190810 and Lot 4 on SP 128032

Title of Report: Report Review Howard Smith Wharf
May 2008

I, Gregory James McPherson of Brisbane City Council, Level 1, Green Square, South Tower, 505 St Paul's Terrace, Fortitude Valley, in the State of Queensland, do solemnly and sincerely declare that;

- I was the investigator and preparer of the report described above;
- I am a member of Environment Institute of Australia and New Zealand (EIANZ); and my qualifications and experience as previously submitted to the Environmental Protection Agency are relevant to this investigation;
- I have not knowingly included any false, misleading or incomplete information in the report;
- I have not knowingly failed to reveal any relevant information or document to the administering authority; and

I certify that:

- The report addresses the relevant matters for the investigation and is factually correct; and
- The opinions expressed in it are honestly and reasonably held.

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act 1867*

s.73 Irrelevant information

Signature

Name

GREGORY JAMES MCPHERSON

Taken and Declared before me at BRISBANE this 29TH day of MAY 2008

Witness (Justice of the Peace/Commissioner for Declarations)

s.73 Irrelevant information

Signature

Jeffrey James Dowling

JP (Qual) 19426
s.73 Irrelevant information

Name (& JP Number if applicable).....



Enquiries to: Paul Ritchie
 Telephone: (07) 3330 5688
 Our reference: BNE38747 vol 6 Project Ref. 193530 Permit No. CLEB01486111

Department of
**Environment and Resource
 Management**

Permit to Remove and Dispose of Contaminated Soil

Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant;

Brisbane City Council
 GPO Box 1434
 BRISBANE QLD 4001
 Attn: Carl Dowthwaite

to remove and dispose of soil contaminated with Zinc, Lead and Copper from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) and described in the following correspondence:

Application for Contaminated Soil Disposal Permit dated 7 February 2011 and received 10 February 2011. The permit holder is responsible for ensuring that all personnel involved in the excavation, removal and disposal comply with the specific and standard conditions in Schedules 1 and 2 of this permit.

Signed

s.73 Irrelevant information

Ian Wilson
 Senior Director, Technical Operations Branch
 Environmental Services

16/2/11

Cc: DERM (Ipwsich) attn: Scott Blanchard (scott.blanchard@derm.qld.gov.au)

Cc: Transpacific Industries Pty Ltd, attn: s.73 Irrelevant information (@transpac.com.au)

Cc: Brisbane City Council, attn: Carl Dowthwaite (carl.dowthwaite@brisbane.qld.gov.au)

Notice to Applicant

The conditions on this permit have been decided after consideration of the standard criteria (EP Act) and for the purpose of preventing environmental harm. The applicant may apply for a review or appeal against the decision within 10 business days of receipt of this notice (s521 and s531).

s.73 Irrelevant information

16/2/11

Schedule 1 of 2 – Specific Conditions

The volume or mass of the contaminated soil shall not exceed 2000 m³.

2000 cubic metres of contaminated soil is to be disposed to unlined landfill in accordance with the disposal facility correspondence dated 7 February 2011 to the Transpacific Waste Management Facility, Chum Street, NEW CHUM (Lot 268 on SP103913).

The soil must be removed for treatment between 16 February 2011 and 16 August 2011.

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Schedule 2 of 2 – Standard Conditions

1. Volume / mass of contaminated soil

This permit applies to the specified volume or mass only. Any increases to the specified quantity will require a new disposal permit.

2. Disposal time period

Disposal must occur within the dates specified or a new disposal permit must be sought.

3. Excavation and loading

The holder of this disposal permit must take all reasonable precautions necessary to prevent the spillage of contaminated soil during loading and prevent contaminated soil being transported from the site of origin on vehicle tyres and plant and equipment.

4. Transportation

(a) Transporter to be advised of permit conditions

Prior to the removal of contaminated soil, the permit holder must provide a copy of the permit and conditions to the transporter.

(b) Load to be secured

The contaminated soil must be covered in the transportation vehicle to ensure that the contaminated soil or offensive or noxious gases are not released during transport.

(c) Cleaning of vehicles and plant equipment

An effective system must be employed for cleaning of vehicles and plant and equipment which are used to transport or handle contaminated soil which prevents release of contaminants onto any roadway or to any waters or stormwater drainage system.

(d) Spillage

Any spillage of contaminants must be cleaned up as quickly as practicable. Spillages must not be cleaned up by hosing, sweeping or otherwise releasing such contaminants or material to any stormwater drainage system, roadside gutter or waters.

5. Receival and disposal

(a) Licence conditions

The acceptance and disposal of the contaminated soil must comply with the licence conditions and the specific requirements of the disposal facility.

(b) Disposal receipts

Copies of disposal acceptance receipts are to be submitted to the Administering Authority within 10 business days of the date of disposal. The holder of, or person acting under a disposal permit, must comply with the conditions of the permit (s425 of the *Environmental Protection Act 1994*).

Maximum penalty - 100 penalty units.

6. Interim storage

Contaminated soil which is temporarily stored at the site of origin or approved for storage at a separate property must be stockpiled and securely covered and/or managed to ensure that:

- (a) rainwater is drained away from the stockpiles;
- (b) contaminated soil is not transported from the stockpile by wind or rainwater;
- (c) offensive odours or noxious gases are not released; and
- (d) soil underlying the stockpiles is not affected by contamination.

A report is to be provided to the Administering Authority within 28 days of final disposal that verifies that the storage area is fully cleared of contamination.

7. Treatment of soil

(a) Licensed facility

When treatment is to be undertaken at a licensed general waste disposal facility or regulated waste treatment and disposal facility, acceptance receipts must be provided to the Administering Authority within 10 days of contaminated soil delivery. The contamination level in the soil must be reduced to a level agreed by the Administering Authority. When contaminated soil is stored at such facility pending treatment, storage is to be undertaken according to condition 6.

(b) Other treatment sites

(i) Soil remediation and validation report.

The permit holder must provide a report of the soil remediation including chemical test results that validate that the contamination has been lowered to levels agreed with the Administering Authority. The report must provide evidence that the land underlying the treatment activity is not affected by contamination.

(ii) Environmental harm.

Treatment activities must be carried out to ensure that environmental harm is not caused and that contaminants including treatment agents are not released from the site by wind, stormwater or as offensive or noxious gases. The requirements of condition 6 also apply.

(c) Final disposal

When soil contamination has been reduced to levels acceptable to the Administering Authority, the soil may be disposed of as general fill unless otherwise specified in Schedule 1. The location of the final disposal site of the soil is to be identified after treatment by written advice to the Administering Authority.

****End of Document****



Dedicated to a better Brisbane

Phone direct: 07 302 74726
Fax direct: 07 333 40071
Email: carl.dowthwaite@brisbane.qld.gov.au

Brisbane Infrastructure
City Design
Level 1 Green Square 505 St Pauls Terrace
Fortitude Valley Qld 4006
GPO Box 1434 Brisbane Qld 4001
T 07 3027 4748 F 07 3334 0212

7 February 2011

Ecoaccess Customer Service Unit
Department of Environment and Resource Management
PO Box 15155
CITY EAST 4002

Re: HOWARD SMITH WHARF, FORTITUDE VALLEY CONTAMINATED SOIL DISPOSAL PERMIT

Council is currently undertaking an upgrade of the Howard Smith Wharf site at 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032). The site is currently listed on the Environmental Management Register (EMR) as a Hazardous Contaminant Site. In undertaking this upgrade an estimated 2000m³ of material has been removed from the adjacent rock face and excavated from the sites floor before being stockpiled onsite.

Due to the homogenous nature of the material a reduced number of samples (27) were submitted to the laboratory for analysis. Analysis of the stockpiled material recorded elevated metal concentrations of Zinc (3000mg/kg), Lead (420mg/kg), Copper (930mg/kg) and Arsenic (31mg/kg). These results are above the Ecological Investigation Levels detailed within Table 5A - Soil Investigation Levels of the National Environmental Protection Measure (1999).

Council has approval to dispose of the material at the Transpacific New Chum Landfill Facility and is submitting the attached application for a Contaminated Soil Disposal Permit.

I trust this information is sufficient, should you have any questions or require further information please contact Carl Dowthwaite on 3027 4726.

Regards
s.73
s.73 Irrelevant

Greg McPherson
Principal Engineer
Contaminated Land Services - City Design

Attachments:

Part A: General Details for all Applications

Part B: Application for Contaminated Soil Disposal Permit

Attachment A: Written Acceptance from Transpacific Landfill Facility and Certificate of Title;

Attachment B: Sample Location Map and Certificate of Title;

Attachment C: Tabulated Analysis Results;

Attachment D: Soil Analysis Lab Results; and

Attachment E: TCLP Lab Results.

Published on DES Disclosure Log
RTI Act 2009



Application Form

Part A

General details for all applications

OFFICIAL USE ONLY

DATE RECEIVED

FILE REF

PROJECT REF

COMPLETE FORM

☐

ENTERED BY (SIGNATURE)

DATE

RECEIPTING DETAILS ONLY

DATE RECEIPTED

RECEIPT NUMBER

AMOUNT RECEIVED

\$

PROCESSED BY (INITIALS AND NAME)

GUIDE

1. The applicant is the person intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the address of a person and cannot be a post office box.

If more than one applicant as part of a partnership, complete the "Joint applicant details" form and attach to this PART A form.

Important information for applicants

This form asks for general applicant details and a description of the proposed project and any associated activities. The completed form must be submitted together with relevant activity specific [Part B] forms and any other associated forms included in your application kit.

Specific details must accompany this form to enable your application to be processed. The guide provided will help you complete your application correctly. If you have any difficulties completing the form, contact the Ecoaccess Customer Service Unit desk on 1300 368 326. Please number all attachments alphabetically (e.g. 'Attachment A').

(Commercial and confidential information must be marked clearly. If subsequent activities are added to the project, you will be required to resubmit this application with details of the additional activity):

Tick relevant boxes below if the applicant(s) are:

- ☐ an individual or sole trader
- ☐ individuals in a partnership
- ☐ individual(s) acting on behalf of an unincorporated organisation
- **Go to Section 1**
- ☒ an incorporated company
- ☐ an incorporated association
- ☐ a statutory authority
- ☐ a body politic
- **Go to Section 2**

1. Individual applicant(s) details⁽¹⁾

APPLICANT'S FULL NAME

TITLE

DATE OF BIRTH

REGISTERED ADDRESS

POST CODE

TELEPHONE

FACSIMILE

E-MAIL

POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)

POST CODE



Application form – Part A
General details for all applications

Guardian details (if applicable)

A parent or legal guardian must complete the following details if an applicant is under 18 years of age.

GUARDIAN'S FULL NAME	DATE OF BIRTH
GUARDIAN'S REGISTERED ADDRESS	POST CODE
GUARDIAN'S SIGNATURE	DATE

→ **Go to Section 3**

2. Applicant details

2. The applicant is the registered legal entity (not a business trading name) intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the registered business address of the company making the application and cannot be a post office box.

Enter the Australian Business Number (ABN); or the Australian Company Number (ACN) of the incorporated company; or the Association Number (AN) of the incorporated association; or the title and section of the legislation that gives the statutory corporation its legal status.

REGISTERED LEGAL ENTITY NAME Brisbane City Council		
TRADING NAME (IF APPLICABLE)		
REGISTERED ADDRESS GPO Box 1434, Brisbane, QLD Green Square South Tower 505 St Pauls Terrace, Fortitude Valley		POST CODE 4001
TELEPHONE 3027 4726	FASCIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE
ABN/ACN/AN OR TITLE AND SECTION OF LEGISLATION 72002765795		

Application form – Part A
General details for all applications

carl.dowthwaite@brisbane.qld.gov.au

Principal contact or person in charge details

PRINCIPAL CONTACT/PERSON IN CHARGE FULL NAME Carl Dowthwaite		TITLE Mr
POSITION IN CORPORATION Environmental Officer		
TELEPHONE 3027 4726	FACSIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE 'AS ABOVE' IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE

Authorised signatory

The authorised signatory is the person authorised to sign an application on behalf of a corporation and in doing so declares that the corporation will be bound by the conditions associated with the granting of the licence or permit.

AUTHORIZED SIGNATORY FULL NAME Greg McPherson	TITLE Mr
POSITION IN CORPORATION Senior Environmental Engineer	

3. Project details

Pre-lodgement

Have you previously attended a pre-lodgement meeting or submitted a pre-lodgement form for this project?

☒ NO ☐ YES

PROJECT NUMBER (IF APPLICABLE)

Project description

Briefly describe the proposed activities, works, development or management. Attach a separate sheet if there is insufficient space below.

DESCRIPTION Application for a Contaminated Soil Disposal Permit for stockpiled material removed from the adjacent rock face at Howard Smith Wharf.

Application form – Part A
General details for all applications

Approvals required

Please list all Part B application forms you are attaching to this form.

APPLICATION FORMS
Application for Contaminated Soil Disposal Permit

Project site

Where will the activities be conducted? Provide the street address, real property description(s) of the land(s) in which the project is located and local government area. If you require more space, attach a separate sheet.

This information should at least provide enough details to allow an EPA or QPWS officer to locate the site of the proposal.

STREET ADDRESS
Howard Smith Wharf
175 Bowen Terrace, Fortitude Valley, 4006

LOT
4

PLAN
SP 128032

LOCAL GOVERNMENT AREA
Brisbane City

If possible, provide a specific location within a protected area, a property name or an attached map with the project area clearly delineated. Also include the map name/details.

Give as much information as possible to accurately locate your activity, for example maps with contextual or boundary lines on plan or GPS boundary co-ordinates.

SPECIFIC LOCATION/PROPERTY NAME

PROTECTED AREA

GEOGRAPHICAL CO-ORDINATES

Geographical co-ordinates can include northing/easting, longitude/latitude.

Attachments

List all attached documents, including maps containing information supporting this application in the space below. If there are no attachments mark "N/A."

Label all attachments alphabetically (e.g. 'Attachment A')

ATTACHMENTS (LABEL ALL ATTACHMENTS ALPHABETICALLY – E.G. 'ATTACHMENT A')

1. Cover Letter; 2. Application for Contaminated Soil Disposal Permit; Attachment A: Written Acceptance from Transpacific New Chum Landfill and Certificate of Title; Attachment B: Sample Location Map and Certificate of Title; Attachment C: Tabulated Analysis Results; Attachment D: Soil Analysis Lab Results; Attachment E: TCLP Lab Results.

Application form – Part A
General details for all applications

4. Applicant's certification

Note: If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act 1867*.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

APPLICANT(1) SIGNATURE	s.73 s.73 Irrelevant informa
------------------------	---------------------------------

Joint applicant signatures (if applicable)

APPLICANT(2) SIGNATURE

APPLICANT(3) SIGNATURE

APPLICANT(4) SIGNATURE

APPLICANT(5) SIGNATURE

DATE

Complete the following checklist.

- ☒ Application form(s) signed and completed
- ☒ Permit fees paid or enclosed (if applicable)
- ☒ Supporting information attached (e.g. maps)

Please return your completed application kit to:

Ecoaccess Customer Service Unit
Environmental Protection Agency

PO Box 15155
City East
Queensland 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
Email: eco.access@epa.qld.gov.au

Application form

Environmental Protection Act

Application for contaminated soil disposal permit – Part B

This form sets out the specific details required for an application under s424 of the Environmental Protection Act 1994 for a permit to dispose of contaminated soil offsite. A contaminated soil disposal permit is required before you can proceed lawfully with your project and any associated activities.

1. Specific information requirements

Please provide details of site(s) from which soil is to be removed

If you require additional space, attach the information requested and make reference to that sheet here.

FULL STREET ADDRESS OF SITE(S) 175 Bowen Terrace, Fortitude Valley	
LOT(S) 4	PLAN(S) SP128032
LOCAL GOVERNMENT AREA Brisbane City	

Has a site investigation report been submitted to the Environmental Protection Agency (EPA)?

☒ NO☐ YES

EPA PROJECT REFERENCE OR FILE NUMBER? (IF KNOWN)

Please provide a copy of the current Certificate of Title to the land

☒ ENCLOSED WITH THIS APPLICATION☐ SUBMITTED PREVIOUSLY TO EPA AS PART OF A SITE INVESTIGATION / VALIDATION REPORT

Has the site been used for a notifiable activity as per Schedule 3 of the *Environmental Protection Act 1994*?

☐ NO☒ YES (PLEASE SPECIFY) HAZARDOUS CONTAMINANT SITE

Is the site presently being used for a notifiable activity?

☒ NO☐ YES (PLEASE SPECIFY)

Is the site currently on the Environmental Management Register or Contaminated Land Register?

☒ YES ☐ NO (IF NO, YOU MUST SUBMIT A NOTIFICATION FORM TO THE EPA)

Has contaminated soil been removed from this site in the past?

☒ NO (GO TO QUESTION 19) ☐ YES

Was approval for off-site disposal obtained?

☐ NO ☐ YES

What is the approximate volume (in cubic metres) of soil to be removed (allowing for excavation bulking)?

2000 m3

How did you calculate the volume of soil to be removed?

Estimation using the depth, width and length of excavation area

What are the dates between which soil will be moved to the disposal location?

FROM DATE:
10/02/2011

TO DATE:
10/07/2011

(In accordance with Section 424(7), permits will only be valid between dates stipulated in the disposal permit)

Justification of request?

State reason(s) why on-site treatment or management is not proposed

The material was removed from the adjacent rockface and excavated from fill areas onsite. There is no location where the excavated material could be reused on site.

Will validation sampling be undertaken to confirm that all soil has been removed?

☒ NO ☐ YES

Application form – Part B
Contaminated soil disposal permit

Provide a description of the contamination present in the soil to be removed?

Analysis results show Zinc, Lead and Copper to be above NEPM Ecological Investigation Levels.

Please tick relevant boxes to indicate that you have attached the following information with this application?

- ☒ Scaled plan showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ Toxicity Characteristic Leaching Procedure (TCLP) results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analysis
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained

Written acceptance from owner of site receiving contaminated soil?

- (a) ☐ Soil being removed to a local government administered landfill

NAME AND ADDRESS OF LOCAL GOVERNMENT ADMINISTERED LANDFILL

- ☐ **Written acceptance from local government authority is enclosed**

- (b) ☒ Soil being removed not going to a local government-administered landfill

- ☐ Copy of Certificate of Title for the disposal location site

LOT(S) 268	PLAN(S) SP103913
FULL STREET ADDRESS OF SITE(S) 100 Chum Street, New Chum, 4303	

- ☒ Written acceptance from registered owner of site is enclosed with this application

Declaration

Note: If you do not tell the truth in this application you may be liable for prosecution under the relevant legislation.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under s480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know to be false, misleading or incomplete in a material particular; and
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

Application form – Part B
Contaminated soil disposal permit

APPLICANT'S NAME Greg McPherson	PRINT NAME OF APPOINTED SIGNATORY (IF APPLICABLE)
APPLICANT'S SIGNATURE / APPOINTED SIGNATORY s.73 Irrelevant information	DATE 7/02/2010

Applicant checklist

- ☒ Application form(s) completed and signed
- ☒ Supporting information attached (if applicable)

Please return your completed application kit to:

Ecoaccess Customer Service Unit
Environmental Protection Agency
PO Box 15155
City East QLD 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
eco.access@epa.qld.gov.au

You may apply for an exemption from disclosing information contained in a document submitted, or proposed to be submitted with this application (see Section 564 of the *Environmental Protection Act 1994*).

Attachment A

Published on DES Disclosure Log
RTI Act 2009



7th Feb 2011

Water and Environment
Brisbane City Council - City Design

Solid Waste Division

Transpacific Waste Management
ABN: 95 120 175 635

100 Chum Street
New Chum QLD 4303
PO Box 384
BOOVAL FAIR QLD 4304
Phone: + 07 3816 2166
Fax: + 07 3816 3055

ATTENTION: ERIK DEKKER
SENIOR ENVIRONMENTAL OFFICER

Dear Erik,

RE: ACCEPTANCE OF CONTAMINATED SOIL – Brisbane River (below story bridge) 175
Bowen Terrace, Fortitude Valley 4006 (Lot 4 on SP 128032).

Following your email correspondence and provision of laboratory results, I consider we are able to accept 2000 m³ of soil for disposal to our **unlined landfill cell** from Brisbane River (below story bridge) 175 Bowen Terrace, Fortitude Valley 4006 (Lot 4 on SP 128032).

A condition of this acceptance letter being issued is that the applicant must inform Landfill Management of the dates that the contaminated soil will be transported to the landfill.

We consider that this material will fall within the acceptance criteria of Transpacific Waste Management's DERM Licence. Our DERM Licence number is ENRE00102604 and our lot on plan is Lot 268 on SP103913. If you require any additional information please do not hesitate to contact the undersigned on (07) 3816 2166.

Yours sincerely,

s.73 Irrelevant information

Environmental/Technical Manager

Head Office: 1st Floor 159 Coronation Drive Milton QLD 4064 Australia
PO Box 1824 Milton BC QLD 4064 Australia
Telephone: + 61 7 3367 7800 | Facsimile: + 61 7 3367 7899 | www.transpacific.com.au

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217

Search Date: 07/06/2010 14:29

Title Reference: 50213117

Date Created: 01/04/1998

Previous Title: 50089779
50089780

REGISTERED OWNER

Dealing No: 710871395 03/08/2007

TRANSPACIFIC WASTE MANAGEMENT PTY LTD
A.C.N. 120 175 635

ESTATE AND LAND

Estate in Fee Simple

LOT 268 SURVEY PLAN 103913
County of STANLEY Parish of GOODNA
Local Government: IPSWICH

For depth restrictions refer to Plan SP 103913

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10031168 (POR 220)
Deed of Grant No. 10033067 (POR 219)
Deed of Grant No. 10046194 (Lot 218 on CP SL10024)
Deed of Grant No. 10046196 (POR 217)
Deed of Grant No. 10105131 (POR 264)
Deed of Grant No. 10116209 (POR 265)
Deed of Grant No. 10116210 (POR 268)
Deed of Grant No. 10118171 (POR 269)
Deed of Grant No. 17761240 (Lot 299 on CP 892008)
Deed of Grant No. 18789219 (Lot 65 on CP 816935)
2. EASEMENT IN GROSS No 601143346 (D953347) 10/11/1970
BURDENING THE LAND
TO THE QUEENSLAND ELECTRICITY GENERATING BOARD
OVER EASEMENTS B AND C ON RP126793
3. TRANSFER No 703630291 14/10/1999 at 08:19
EASEMENT IN GROSS: 601143346 (D953347)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233
4. EASEMENT IN GROSS No 602211776 (D953349) 10/11/1970
burdening the land
QUEENSLAND ELECTRICITY COMMISSION
over
EASEMENT B ON RP126945
5. TRANSFER No 703675243 05/11/1999 at 07:49
EASEMENT IN GROSS: 602211776 (D953349)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217

Search Date: 07/06/2010 14:29

Title Reference: 50213117

Date Created: 01/04/1998

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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Requested By: External Supervisor

Published on DES Disclosure Log
RTI Act 2009

Attachment B

Published on DES Disclosure Log
RTI Act 2009



MAILING ADDRESS:
GPO Box 1434
Brisbane Qld 4001

Green Square
South Tower
505 St. Paul's Terrace
Fortitude Valley Qld 4006

Telephone: (07) 3027 5550
Facsimile: (07) 3334 0225

E-mail: citydesign@brisbane.qld.gov.au



Dedicated to a better Brisbane
City Design
Brisbane City Council

LEGEND



Stockpile Area



Sample Location

Copyright and Data Disclaimer:

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In consideration of Council, and the copyright owners' special licence, permitting the use of the data, you acknowledge and agree that Council, and the copyright owners, give no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accept no liability (including and without limitation, liability in negligence) for any loss, damage or costs (including consequential damages) relating to any use of this data. Data must not be used for direct marketing or be used in breach of any copyright or privacy laws.

Copyright of data is as follows:
Cadastral © 2010 Department of Environment and Resource Management, Street Names and House Numbers © 2010,
Mooroop 2011 Aerial Imagery © 2009 AAM HeliCo, 2008 Digital Globe QuickBird Satellite Imagery © 2008 Digital
Globe, 2008 contains © 2008 AAM HeliCo, 2008 Imagery © 2008 Imagery Publishing.



8 0 8 16 24

Metres



Printed 7 Feb. 11

Project Number: NA	Revision: 1	Prepared: CD	Checked: CD
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Workspace: NA

Project: **Howard Smith Wharf**

Title: **Sample Location Map**

From: Carl Dowthwaite
To: Anderson, Candice
Date: 7/02/2011 9:26:28 am
Subject: Urgent Historical Title Search

Candice,

Could you please undertake a Historical Title Search for 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032).

Scan and send to me today thanks

Regards,

Carl Dowthwaite
Environmental Officer

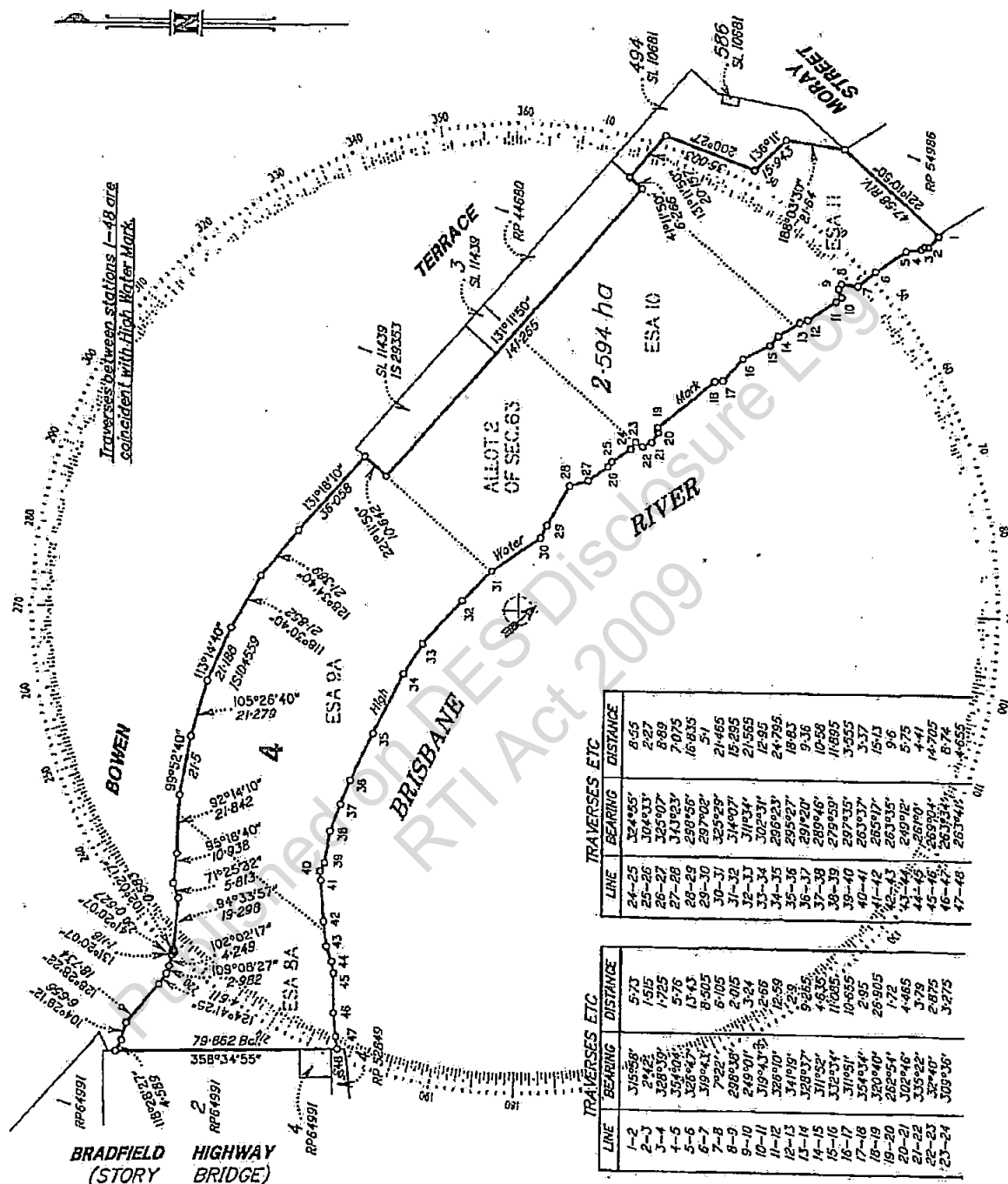
Water and Environment
Brisbane City Council - City Design
Ph: 3027 4726 | Fax: 3334 0071
Email: carl.dowthwaite@brisbane.qld.gov.au

CC: Dekker, Erik

Land Title Act 1994 : Land Act 1994
Form 21 Version 2

SURVEY PLAN

Sheet 1 of 1



LINE	BEARING	DISTANCE
24-25	324°55'	8.55
25-26	324°53'	2.27
26-27	325°07'	8.89
27-28	313°23'	7.075
28-29	289°56'	16.835
29-30	297°02'	5.1
30-31	325°29'	21.465
31-32	314°07'	15.295
32-33	311°34'	21.555
33-34	302°31'	12.95
34-35	286°23'	24.795
35-36	295°27'	18.83
36-37	289°46'	10.58
37-38	279°50'	11.895
38-39	279°50'	3.555
39-40	263°37'	3.37
40-41	263°37'	15.13
41-42	263°35'	9.6
42-43	263°35'	5.75
43-44	263°35'	4.41
44-45	263°35'	14.705
45-46	263°35'	8.74
46-47	263°35'	4.655
47-48	263°35'	4.655

LINE	BEARING	DISTANCE
1-2	315°58'	5.73
2-3	315°58'	1.515
3-4	315°58'	1.755
4-5	315°58'	5.76
5-6	315°58'	13.43
6-7	315°58'	8.505
7-8	315°58'	2.015
8-9	315°58'	3.24
9-10	315°58'	2.65
10-11	315°58'	16.59
11-12	315°58'	2.9
12-13	315°58'	4.635
13-14	315°58'	11.895
14-15	315°58'	2.95
15-16	315°58'	10.655
16-17	315°58'	2.95
17-18	315°58'	25.905
18-19	315°58'	1.72
19-20	315°58'	4.465
20-21	315°58'	3.79
21-22	315°58'	2.875
22-23	315°58'	3.275
23-24	315°58'	3.275

Keller Fox & McChie Pty. Ltd. ACN 010 162 197
hereby certify that the Company has made this plan
pursuant to Section 25 of the Surveyors Regulation
1992, and that the plan is accurate, and compiled from
RC906995 and RC906974 in the Department of Natural
Resources, McChie



Director and Licensed Surveyor

Director

Date: 11.1.00

Plan of Lot 4

Cancelling U.S.L. being Lot 2 on B3333, the balance of
Lots 21 & 22 on RP8614, Lot 2 on RP8616, the balance of
Lot 4 on RP41821, Lot 2 on RP44680 and Lot 4 on CP890874

PARISH: NORTH BRISBANE COUNTY: Stanley

Meridian: AMG Zone 56 Vide RC906986

F/N's: NO

Scale: 1:1500

Formal: STANDARD



SP128032

Plan Status

TA-2283-00/2
K.R.

704127834

BE 494

NO FEE
23/09/2009 15:58

(Dealing No 1)

WARNING: Folded or Mutilated Plans will not be accepted.
Plans may be rolled.
Information may not be placed in the outer margins.

Registered

s. Lodged by
~~Wally Cowley~~
 Senior Property Analyst
 Portfolio and Housing Unit
 Department of Public Works
 GPO Box 2437, Brisbane Q 4001
 Phone: 3404 3727
 (Include address, phone number, reference, and Lodger Code)

Bernie Maguire
 Property Services
 Unit 14, AXA
 Ph: X78110

525

1 Certificate of Registered Owners or Lessees.

I/We

(Names in full)

* as Registered Owners of this land agree to this plan and dedicate the Public Use Land as shown hereon in accordance with Section 50 of the Land Title Act 1994.

* as Lessees of this land agree to this plan.

Signature of *Registered Owners *Lessees

APPROVED

s.73 Irrel

A/127

s.73

Douglas James Fergusson
 Delegate of the Minister for Natural Resources

19/6/00.

* Rule out whichever is inapplicable

2 Local Government Approval.

I hereby approve this plan in accordance with the:

%

Dated this day of

* Insert the name of the Local Government
 # Insert designation of signatory or delegation

% Insert Integrated Planning Act 1997 or
 Local Government (Planning & Environment) Act 1990

3 Plans with Community Management Statement:

CMS Number:

Name:

4 References:

Dept File: BRI/000369

Local Govt:

Surveyor: TA 2283-00

5 Existing

Title Reference

Lot

Plan

U.5 L.

Created

Lots

Emts

Road

ESAs 8A,
 9A, 10 & 11
 and Allot 2
 of Sec. 63

4

Orig

Lots

7 Portion Allocation:

8 Map Reference:

9543-33313

9 Locality:

FORTITUDE VALLEY

10 Local Government:

BRISBANE C. C.

11 Passed & Endorsed:

By: Keller Fox & McChie Pty. Ltd.

ACN 010 182 197

Date:

14.6.00

Signed:

Designation: Liaison Officer

12 Building Format Plans only.

I certify that:

- * As far as it is practical to determine, no part of the building shown on this plan encroaches onto adjoining lots or road;
- * Part of the building shown on this plan encroaches onto adjoining * lots and road

Licensed Surveyor/Director * Date
 * delete words not required

13 Lodgement Fees:

Survey Deposit

Lodgement

New Titles

Photocopy

Posting

TOTAL

FEE \$ 37.00
 \$
 \$
 \$
 \$ 37.00

14 Insert
 Plan
 Number

SP128032

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906021

Search Date: 07/02/2011 10:12

Title Reference: 50323249

Date Created: 31/07/2000

Previous Title: 40025609

REGISTERED OWNER

Dealing No: 707890862 14/07/2004

BRISBANE CITY COUNCIL

TRANSFER No 707890862

BRISBANE CITY COUNCIL

Lodged at 13:58 on 14/07/2004

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES

Dealing	Type	Lodgement Date	Status
713597367	HERITGE SITE	30/11/2010 11:14	CURRENT

QUEENSLAND HERITAGE ACT 1992

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Historical Title Search **

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Requested By: External Supervisor

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

This Title Has Been Fully Cancelled.

[Form 1:1] Title Reference: 40025609

QUEENSLAND

DEED OF GRANT OF LAND

Land Act 1994

Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

WE, with the advice of the Executive Council, under the Land Act 1994,
grant in fee simple all that parcel of land described in Schedule 1 to the
person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other
reservations and conditions as may be contained in and declared by the
laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

REGISTERED OWNER

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT
OF PUBLIC WORKS - GLR 10891)

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. REQUEST FOR INDEFEASIBLE TITLE No 704219938
An Indefeasible Title is requested for the land
Lodged at 10:05 on 28/07/2000

2. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

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Requested By: External Supervisor

[Form 1.1]

Title Reference: 40025609



QUEENSLAND

DEED OF GRANT OF LAND

Land Act 1994



Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

WE, with the advice of the Executive Council, under the Land Act 1994, grant in fee simple all that parcel of land described in Schedule 1 to the person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other reservations and conditions as may be contained in and declared by the laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

SCHEDULE 1 - DESCRIPTION OF LAND

Lot/Plan
4/SP128032

County
STANLEY

Parish
NORTH BRISBANE

Area 2.594 Ha.

s.73 Irrelevant information

Note: For details of description, dimensions and marking of boundaries refer to plan mentioned above.

SCHEDULE 2 - GRANTEE

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT OF PUBLIC WORKS - GLR 10891)

Attachment C

Published on DES Disclosure Log
RTI Act 2009

Table 1: Summary of Soil Analysis Results

ANALYTE	Units	LOR	Assessment Guidelines		HSW1	HSW2	HSW3	HSW4	HSW5	HSW7	HSW9	HSW11	HSW13	HSW15	HSW17	HSW19	HSW21	HSW23	HSW24	HSW27	HSW29	HSW31	HSW32	HSW33	HSW34	HSW35	HSW36	HSW37	HSW38	HSW39	HSW40	
			ETIL	HIL "A"																												
Moisture Content																																
Moisture Content (dried @ 103°C)	%	1.0	-	-	20	21	17	19	16	18	17	17	25	13	19	18	22	20	20	2.1	4.2	8.5	5.8	20	19	18	18	12	11	8.8	15	
Total Metals																																
Arsenic	mg/kg	5	20	100	15	7.7	11	8.4	14	28	8.6	6.9	31	11	7	6.9	8.9	7.1	10	9.7	12	5.9	18	13	7.7	6.7	9.2	16	8	<2	15	
Cadmium	mg/kg	1	3	20	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6	0.6	<0.5	<0.6	<0.5	<0.5	<0.5	<0.5	0.8	
Chromium	mg/kg	2	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Copper	mg/kg	5	60	1000	24	17	25	21	23	23	20	18	930	47	16	14	25	27	22	27	13	9.1	23	32	25	29	910	9.7	10	19	32	
Lead	mg/kg	5	600	300	100	120	130	140	120	120	420	120	110	400	110	94	140	140	160	170	83	85	140	180	180	170	160	41	25	15	320	
Nickel	mg/kg	2	60	600	8.2	<5	7	5.4	5.6	17	5.3	<5	<5	5.7	<5	<5	7.3	5.6	<5	9.5	<5	<5	5.4	6.6	7.6	11	19	6	8.6	9.5	11	
Zinc	mg/kg	5	200	7000	580	500	1000	690	730	920	810	700	470	950	430	350	810	880	740	650	160	180	540	1500	1600	1900	1500	310	160	89	3000	
Mercury																																
Mercury	mg/kg	0.1	1	15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.8	0.1	0.1	<0.1	<0.1	<0.1	0.1	
Polynuclear Aromatic Hydrocarbons																																
Acenaphthene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Acenaphthylene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Anthracene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Benz(a)anthracene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.5	-	<1	-	0.2	-	0.2	-	0.2	-	0.1	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Benz(a)pyrene	mg/kg	0.5	-	1	0.1	-	0.2	-	0.1	-	0.4	-	<1	-	0.2	-	0.1	-	0.1	-	0.1	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Benz(b)fluoranthene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.4	-	<1	-	0.2	-	0.1	-	0.2	-	0.2	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Benz(g,h,i)perylene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.2	-	0.3	-	<1	-	0.1	-	<0.1	-	0.1	-	0.2	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Benz(k)fluoranthene	mg/kg	0.5	-	-	<0.1	-	0.1	-	<0.1	-	0.2	-	<1	-	0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Chrysene	mg/kg	0.5	-	-	<0.1	-	0.2	-	0.1	-	0.4	-	<1	-	0.2	-	0.1	-	0.1	-	0.1	-	-	0.1	-	0.1	-	-	<0.1	-	-	
Dibenz(a,h)anthracene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Fluoranthene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.8	-	<1	-	0.2	-	0.2	-	0.2	-	0.2	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Fluorene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.1	-	0.3	-	<1	-	0.1	-	<0.1	-	<0.1	-	0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Naphthalene	mg/kg	0.5	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	<0.1	-	-	<0.1	-	-	
Phenanthrene	mg/kg	0.5	-	-	<0.1	-	0.1	-	<0.1	-	0.6	-	<1	-	0.1	-	<0.1	-	<0.1	-	<0.1	-	-	<0.1	-	0.1	-	-	<0.1	-	-	
Pyrene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.6	-	<1	-	0.2	-	0.2	-	0.2	-	0.2	-	-	0.2	-	0.2	-	-	<0.1	-	-	
Total PAH	mg/kg	-	-	20	0.9	-	2	-	1.3	-	4.5	-	<1	-	1.6	-	0.9	-	1.1	-	1.3	-	-	1.4	-	2	-	-	<0.1	-	-	

Notes:

ETIL	Urban Ecological Investigation Threshold Levels (NEPM, 1999)
HIL "A"	Health Based Investigation Level - "Standard Residential with Garden Accessible Soil" (NEPM 1999)
-	Not Available/Not Relevant

Published on DES Disclosure
RTI Act 2009

Attachment D

Published on DES Disclosure Log
RTI Act 2009

Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

Attention: Carl Douthwaite

Report

Client Reference
Received Date

288896-S
Howard Smith Wharf Disposal Permit
Feb 01, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 1261

The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

Client Sample ID			HSW1	HSW2	HSW3	HSW4
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50221	11-FE50222	11-FE50223	11-FE50224
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.1	-	0.2	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.1	-
Chrysene	0.1	mg/kg	< 0.1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.1	-	0.3	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.2	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.1	-
Pyrene	0.1	mg/kg	0.1	-	0.3	-
Total PAH	0.1	mg/kg	0.90	-	2.0	-
p-Terphenyl-d14 (surr.)	1	%	93	-	116	-
2-Fluorobiphenyl (surr.)	1	%	104	-	128	-
% Moisture	0.1	%	20	21	17	19
Heavy Metals (7)						
Arsenic	2	mg/kg	15	7.7	11	8.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	24	17	25	21
Lead	5	mg/kg	100	120	130	140
Nickel	5	mg/kg	8.2	< 5	7.0	5.4
Zinc	5	mg/kg	580	500	1000	690
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW5	HSW7	HSW9	HSW11
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50225	11-FE50227	11-FE50229	11-FE50231
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benzo(a)anthracene	0.1	mg/kg	0.2	-	0.5	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.4	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.4	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	0.3	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.2	-
Chrysene	0.1	mg/kg	0.1	-	0.4	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.8	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.3	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.6	-
Pyrene	0.1	mg/kg	0.2	-	0.6	-
Total PAH	0.1	mg/kg	1.3	-	4.5	-
p-Terphenyl-d14 (surr.)	1	%	104	-	88	-
2-Fluorobiphenyl (surr.)	1	%	120	-	103	-
% Moisture	0.1	%	16	18	17	17
Heavy Metals (7)						
Arsenic	2	mg/kg	14	28	8.6	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	23	23	20	18
Lead	5	mg/kg	120	120	420	120
Nickel	5	mg/kg	5.6	17	5.3	< 5
Zinc	5	mg/kg	730	920	810	700
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW13	HSW15	HSW17	HSW19
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50233	11-FE50235	11-FE50237	11-FE50239
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	< 1	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	< 1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 1	-	0.1	-
Chrysene	0.1	mg/kg	< 1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Fluorene	0.1	mg/kg	< 1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 1	-	0.1	-
Naphthalene	0.1	mg/kg	< 1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 1	-	0.1	-
Pyrene	0.1	mg/kg	< 1	-	0.2	-
Total PAH	0.1	mg/kg	< 1	-	1.6	-
p-Terphenyl-d14 (surr.)	1	%	77	-	98	-
2-Fluorobiphenyl (surr.)	1	%	93	-	111	-
% Moisture	0.1	%	25	13	19	18
Heavy Metals (7)						
Arsenic	2	mg/kg	31	11	7.0	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	930	47	16	14
Lead	5	mg/kg	110	400	110	94
Nickel	5	mg/kg	< 5	5.7	< 5	< 5
Zinc	5	mg/kg	470	950	430	350
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1

Client Sample ID			HSW21	HSW23	HSW24	HSW27
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50241	11-FE50243	11-FE50244	11-FE50247
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.1	-
Benzo(b)fluoranthene	0.1	mg/kg	0.1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Chrysene	0.1	mg/kg	0.1	-	0.1	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Pyrene	0.1	mg/kg	0.2	-	0.2	-
Total PAH	0.1	mg/kg	0.90	-	1.1	-
p-Terphenyl-d14 (surr.)	1	%	96	-	98	-
2-Fluorobiphenyl (surr.)	1	%	112	-	111	-
% Moisture	0.1	%	22	20	20	2.1
Heavy Metals (7)						
Arsenic	2	mg/kg	8.9	7.1	10	9.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	25	27	22	27
Lead	5	mg/kg	140	140	160	170
Nickel	5	mg/kg	7.3	5.6	< 5	9.5
Zinc	5	mg/kg	810	880	740	650
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW29	HSW31	HSW32	HSW33
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50249	11-FE50251	11-FE50252	11-FE50253
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Acenaphthylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Benz(a)anthracene	0.1	mg/kg	0.1	-	-	0.2
Benzo(a)pyrene	0.1	mg/kg	0.2	-	-	0.2
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	-	0.2
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Chrysene	0.1	mg/kg	0.1	-	-	0.1
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Fluorene	0.1	mg/kg	< 0.1	-	-	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	-	0.1
Naphthalene	0.1	mg/kg	< 0.1	-	-	< 0.1
Phenanthrene	0.1	mg/kg	< 0.1	-	-	< 0.1
Pyrene	0.1	mg/kg	0.2	-	-	0.2
Total PAH	0.1	mg/kg	1.3	-	-	1.4
p-Terphenyl-d14 (surr.)	1	%	89	-	-	96
2-Fluorobiphenyl (surr.)	1	%	103	-	-	113
% Moisture	0.1	%	4.2	8.5	5.8	20
Heavy Metals (7)						
Arsenic	2	mg/kg	12	5.9	16	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	13	9.1	23	32
Lead	5	mg/kg	83	85	140	180
Nickel	5	mg/kg	< 5	< 5	5.4	6.6
Zinc	5	mg/kg	160	190	540	1500
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	0.1	0.1

Client Sample ID			HSW34	HSW35	HSW36	HSW37
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50254	11-FE50255	11-FE50256	11-FE50257
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	-	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	-	< 0.1	-	-
Anthracene	0.1	mg/kg	-	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	-	0.2	-	-
Benzo(a)pyrene	0.1	mg/kg	-	0.2	-	-
Benzo(b)fluoranthene	0.1	mg/kg	-	0.3	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	-	0.2	-	-
Benzo(k)fluoranthene	0.1	mg/kg	-	0.1	-	-
Chrysene	0.1	mg/kg	-	0.2	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	-	< 0.1	-	-
Fluoranthene	0.1	mg/kg	-	0.3	-	-
Fluorene	0.1	mg/kg	-	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	-	0.2	-	-
Naphthalene	0.1	mg/kg	-	< 0.1	-	-
Phenanthrene	0.1	mg/kg	-	0.1	-	-
Pyrene	0.1	mg/kg	-	0.2	-	-
Total PAH	0.1	mg/kg	-	2.0	-	-
p-Terphenyl-d14 (surr.)	1	%	-	95	-	-
2-Fluorobiphenyl (surr.)	1	%	-	110	-	-
% Moisture	0.1	%	19	18	18	12
Heavy Metals (7)						
Arsenic	2	mg/kg	7.7	6.7	9.2	16
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	8.0	5.1	5.2	< 5
Copper	5	mg/kg	25	29	910	9.7
Lead	5	mg/kg	180	170	160	41
Nickel	5	mg/kg	7.6	11	19	6.0
Zinc	5	mg/kg	1600	1900	1500	310
Heavy Metals						
Mercury	0.1	mg/kg	0.8	0.1	0.1	< 0.1

Client Sample ID Sample Matrix mgt-LabMark Sample No. Date Sampled Test/Reference	LOR	Unit	HSW38 Soil 11-FE50258 Jan 27, 2011	HSW39 Soil 11-FE50259 Jan 27, 2011	HSW40 Soil 11-FE50260 Jan 27, 2011
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	-
Anthracene	0.1	mg/kg	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	< 0.1	-	-
Benzo(a)pyrene	0.1	mg/kg	< 0.1	-	-
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-
Chrysene	0.1	mg/kg	< 0.1	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-
Fluoranthene	0.1	mg/kg	< 0.1	-	-
Fluorene	0.1	mg/kg	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	-
Naphthalene	0.1	mg/kg	< 0.1	-	-
Phenanthrene	0.1	mg/kg	< 0.1	-	-
Pyrene	0.1	mg/kg	< 0.1	-	-
Total PAH	0.1	mg/kg	< 0.1	-	-
p-Terphenyl-d14 (surr.)	1	%	92	-	-
2-Fluorobiphenyl (surr.)	1	%	107	-	-
% Moisture	0.1	%	11	6.8	15
Heavy Metals (7)					
Arsenic	2	mg/kg	8.0	< 2	15
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.8
Chromium	5	mg/kg	< 5	< 5	< 5
Copper	5	mg/kg	10	19	32
Lead	5	mg/kg	25	15	320
Nickel	5	mg/kg	8.6	9.5	11
Zinc	5	mg/kg	160	89	3000
Heavy Metals					
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Oakleigh	Feb 02, 2011	14 Day
- Method: USEPA 8270C Polycyclic Aromatic Hydrocarbons			
% Moisture	Oakleigh	Feb 02, 2011	14 Day
- Method: Method 102 - ANZECC - % Moisture			
Heavy Metals (7)	Oakleigh	Feb 02, 2011	6 Month
- Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury			
Heavy Metals	Oakleigh	Feb 02, 2011	28 Day
- Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury			

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council-City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288896
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Douthwaite

Client Job No.: Howard Smith Wharf Disposal Permit

mgt-LabMark Client Manager: s.73 Irrele

Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
HSW1	Jan 27, 2011		Soil	M11-FE50221	X		X	X	X
HSW2	Jan 27, 2011		Soil	M11-FE50222	X		X		X
HSW3	Jan 27, 2011		Soil	M11-FE50223	X		X	X	X
HSW4	Jan 27, 2011		Soil	M11-FE50224	X		X		X
HSW5	Jan 27, 2011		Soil	M11-FE50225	X		X	X	X
HSW6	Jan 27, 2011		Soil	M11-FE50226		X			
HSW7	Jan 27, 2011		Soil	M11-FE50227	X		X		X
HSW8	Jan 27, 2011		Soil	M11-FE50228		X			
HSW9	Jan 27, 2011		Soil	M11-FE50229	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW10	Jan 27, 2011		Soil	M11-FE50230		X			
HSW11	Jan 27, 2011		Soil	M11-FE50231	X		X		X
HSW12	Jan 27, 2011		Soil	M11-FE50232		X			
HSW13	Jan 27, 2011		Soil	M11-FE50233	X		X	X	X
HSW14	Jan 27, 2011		Soil	M11-FE50234		X			
HSW15	Jan 27, 2011		Soil	M11-FE50235	X		X		X
HSW16	Jan 27, 2011		Soil	M11-FE50236		X			
HSW17	Jan 27, 2011		Soil	M11-FE50237	X		X	X	X
HSW18	Jan 27, 2011		Soil	M11-FE50238		X			
HSW19	Jan 27, 2011		Soil	M11-FE50239	X		X		X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW20	Jan 27, 2011		Soil	M11-FE50240		X			
HSW21	Jan 27, 2011		Soil	M11-FE50241	X		X	X	X
HSW22	Jan 27, 2011		Soil	M11-FE50242		X			
HSW23	Jan 27, 2011		Soil	M11-FE50243	X		X		X
HSW24	Jan 27, 2011		Soil	M11-FE50244	X		X	X	X
HSW25	Jan 27, 2011		Soil	M11-FE50245		X			
HSW26	Jan 27, 2011		Soil	M11-FE50246		X			
HSW27	Jan 27, 2011		Soil	M11-FE50247	X		X		X
HSW28	Jan 27, 2011		Soil	M11-FE50248		X			
HSW29	Jan 27, 2011		Soil	M11-FE50249	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW30	Jan 27, 2011		Soil	M11-FE50250		X			
HSW31	Jan 27, 2011		Soil	M11-FE50251	X		X		X
HSW32	Jan 27, 2011		Soil	M11-FE50252	X		X		X
HSW33	Jan 27, 2011		Soil	M11-FE50253	X		X	X	X
HSW34	Jan 27, 2011		Soil	M11-FE50254	X		X		X
HSW35	Jan 27, 2011		Soil	M11-FE50255	X		X	X	X
HSW36	Jan 27, 2011		Soil	M11-FE50256	X		X		X
HSW37	Jan 27, 2011		Soil	M11-FE50257	X		X		X
HSW38	Jan 27, 2011		Soil	M11-FE50258	X		X	X	X
HSW39	Jan 27, 2011		Soil	M11-FE50259	X		X		X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW40	Jan 27, 2011		Soil	M11-FE50260	X		X		X
HSW41	Jan 27, 2011		Soil	M11-FE50261		X			
HSW42	Jan 27, 2011		Soil	M11-FE50262		X			

mgt-LabMark Internal Quality Control Review General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A						
Acenaphthene	mg/kg	< 0.1		0.1	Pass	
Acenaphthylene	mg/kg	< 0.1		0.1	Pass	
Anthracene	mg/kg	< 0.1		0.1	Pass	
Benz(a)anthracene	mg/kg	< 0.1		0.1	Pass	
Benzo(a)pyrene	mg/kg	< 0.1		0.1	Pass	
Benzo(b)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.1		0.1	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Chrysene	mg/kg	< 0.1		0.1	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1		0.1	Pass	
Fluoranthene	mg/kg	< 0.1		0.1	Pass	
Fluorene	mg/kg	< 0.1		0.1	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1		0.1	Pass	
Naphthalene	mg/kg	< 0.1		0.1	Pass	
Phenanthrene	mg/kg	< 0.1		0.1	Pass	
Pyrene	mg/kg	< 0.1		0.1	Pass	
Method Blank						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71 Me						
Arsenic	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.5		0.5	Pass	
Chromium	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Nickel	mg/kg	< 5		5	Pass	
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me						
Mercury	mg/kg	< 0.1		0.1	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A		Result 1				
Acenaphthene	%	100		70-130	Pass	
Acenaphthylene	%	103		70-130	Pass	
Anthracene	%	109		70-130	Pass	
Benz(a)anthracene	%	93		70-130	Pass	
Benzo(a)pyrene	%	108		70-130	Pass	
Benzo(b)fluoranthene	%	99		70-130	Pass	
Benzo(g,h,i)perylene	%	108		70-130	Pass	
Benzo(k)fluoranthene	%	103		70-130	Pass	
Chrysene	%	103		70-130	Pass	
Dibenz(a,h)anthracene	%	120		70-130	Pass	
Fluoranthene	%	93		70-130	Pass	
Fluorene	%	105		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	108		70-130	Pass	
Naphthalene	%	100		70-130	Pass	
Phenanthrene	%	107		70-130	Pass	
Pyrene	%	95		70-130	Pass	
LCS - % Recovery						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71		Result 1				
Arsenic	%	112		80-120	Pass	
Cadmium	%	95		80-120	Pass	
Chromium	%	90		80-120	Pass	
Nickel	%	91		80-120	Pass	
LCS - % Recovery						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me		Result 1				
Mercury	%	103		75-125	Pass	
[Duplicate of 11-FE50221]						
Polycyclic Aromatic Hydrocarbons		Result 1	Result 2	RPD		
Acenaphthene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Acenaphthylene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Benz(a)anthracene	mg/kg	0.2	0.1	6	30%	Pass
Benzo(a)pyrene	mg/kg	0.1	0.1	6	30%	Pass

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Benzo(b)fluoranthene	mg/kg	0.2	0.1	15	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.1	0.2	3	30%	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1	< 0.1	8	30%	Pass	
Chrysene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Fluoranthene	mg/kg	0.1	0.1	4	30%	Pass	
Fluorene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	2	30%	Pass	
Naphthalene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Phenanthrene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Pyrene	mg/kg	0.1	0.1	2	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	15	9.8	42	30%	Fail	Q15
Cadmium	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	mg/kg	24	22	8	30%	Pass	
Lead	mg/kg	100	130	25	30%	Pass	
Nickel	mg/kg	8.2	5	48	30%	Fail	Q15
Zinc	mg/kg	580	490	15	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	< 0.1	< 0.1	19	30%	Pass	
[Duplicate of 11-FE50237]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	7	8	13	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	mg/kg	16	17	7	30%	Pass	
Lead	mg/kg	110	110	7	30%	Pass	
Nickel	mg/kg	< 5	5.9	40	30%	Fail	Q15
Zinc	mg/kg	430	430	1	30%	Pass	
[Duplicate of 11-FE50237]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
[Duplicate of 11-FE50254]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	7.7	7.7	<1	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	46	30%	Fail	Q15
Chromium	mg/kg	8	< 5	100	30%	Fail	Q15
Copper	mg/kg	25	23	6	30%	Pass	
Lead	mg/kg	180	160	13	30%	Pass	
Nickel	mg/kg	7.6	6.1	22	30%	Pass	
Zinc	mg/kg	1600	1300	18	30%	Pass	
[Duplicate of 11-FE50254]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	0.8	0.2	100	30%	Fail	
[Duplicate of 11-FE50255]							
Polycyclic Aromatic Hydrocarbons		Result 1	Result 2	RPD			
Acenaphthene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Acenaphthylene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Benz(a)anthracene	mg/kg	0.2	0.2	3	30%	Pass	
Benzo(a)pyrene	mg/kg	0.2	0.2	4	30%	Pass	
Benzo(b)fluoranthene	mg/kg	0.3	0.2	18	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.2	0.2	1	30%	Pass	
Benzo(k)fluoranthene	mg/kg	0.1	0.1	1	30%	Pass	
Chrysene	mg/kg	0.2	0.2	6	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Fluoranthene	mg/kg	0.3	0.2	15	30%	Pass	
Fluorene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	0.2	4	30%	Pass	
Naphthalene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Phenanthrene	mg/kg	0.1	0.1	1	30%	Pass	
Pyrene	mg/kg	0.2	0.2	11	30%	Pass	
[Spike of 11-FE50221] - % Recovery							

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Polycyclic Aromatic Hydrocarbons		Result 1					
Acenaphthene	%	121			70 - 130	Pass	
Acenaphthylene	%	122			70 - 130	Pass	
Anthracene	%	117			70 - 130	Pass	
Benz(a)anthracene	%	116			70 - 130	Pass	
Benzo(a)pyrene	%	115			70 - 130	Pass	
Benzo(b)fluoranthene	%	119			70 - 130	Pass	
Benzo(g,h,i)perylene	%	98			70 - 130	Pass	
Benzo(k)fluoranthene	%	107			70 - 130	Pass	
Chrysene	%	123			70 - 130	Pass	
Dibenz(a,h)anthracene	%	97			70 - 130	Pass	
Fluoranthene	%	113			70 - 130	Pass	
Fluorene	%	125			70 - 130	Pass	
Indeno(1,2,3-cd)pyrene	%	95			70 - 130	Pass	
Naphthalene	%	114			70 - 130	Pass	
Phenanthrene	%	119			70 - 130	Pass	
Pyrene	%	114			70 - 130	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals (7)		Result 1					
Arsenic	%	82			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	82			75 - 125	Pass	
Copper	%	102			75 - 125	Pass	
Lead	%	80			75 - 125	Pass	
Nickel	%	75			75 - 125	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals		Result 1					
Mercury	%	90			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within Holding Time	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant information

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Attachment E

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Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

Attention: Carl Douthwalte

Report
Client Reference
Received Date

288922-S
Howard Smith Wharf Disposal Permit - ASLP
Feb 01, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 1261

The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

Client Sample ID			HSW1-26	HSW27-32	HSW33-42
Sample Matrix			ASLP - pH 5.0	ASLP - pH 5.0	ASLP - pH 5.0
mgt-LabMark Sample No.			11-FE50481	11-FE50482	11-FE50483
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit			
% Moisture	0.1	%	20	5.8	17
Heavy Metals (7)					
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Copper	0.01	mg/L	0.01	0.02	0.01
Lead	0.01	mg/L	0.21	0.08	0.16
Nickel	0.01	mg/L	0.01	< 0.01	0.02
Zinc	0.01	mg/L	6.0	2.3	13
Australian Standard Leaching Procedure (ASLP)					
Leachate Fluid		comment	1.0	1.0	1.0
pH (ASLP - off)	0.1	units	5.3	5.2	5.2
pH (Leachate fluid)	0.1	units	5.0	5.0	5.0
Heavy Metals					
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
% Moisture	Oakleigh	Feb 03, 2011	14 Day
- Method: Method 102 - ANZECC - % Moisture			
Heavy Metals (7)	Oakleigh	Feb 03, 2011	6 Month
- Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury			
Heavy Metals	Oakleigh	Feb 03, 2011	28 Day
- Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury			

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288922
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Dowthwaite

Client Job No.: Howard Smith Wharf Disposal Permit - ASLP

mgt-LabMark Client Manager: s.73 Irrele

Sample Detail					% Moisture	Mercury	Heavy Metals (7)	Australian Standard Leaching Procedure (ASLP)
Laboratory where analysis is conducted								
Oakleigh Laboratory - NATA Site #1261					X	X	X	X
Thornleigh Laboratory - NATA Site #18217								
Asquith Laboratory - NATA Site #13535								
Clayton Laboratory - NATA Site #1645								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
HSW1-26	Jan 27, 2011		ASLP - pH 5.0	M11-FE50481	X	X	X	X
HSW27-32	Jan 27, 2011		ASLP - pH 5.0	M11-FE50482	X	X	X	X
HSW33-42	Jan 27, 2011		ASLP - pH 5.0	M11-FE50483	X	X	X	X

mgt-LabMark Internal Quality Control Review General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any Interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) : where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.01			0.01	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Mer							
Mercury	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71							
		Result 1					
Arsenic	%	97			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	97			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Mer							
		Result 1					
Mercury	%	86			75-125	Pass	
[Duplicate of 11:FE00310 - BATCH]							
Heavy Metals (7)							
		Result 1	Result 2	RPD			
Arsenic	mg/L	0.024	0.025	6.3	30%	Pass	
Cadmium	mg/L	< 0.01	< 0.01	39	30%	Fail	Q15
Chromium	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	mg/L	0.021	0.021	1.4	30%	Pass	
Lead	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nickel	mg/L	< 0.01	< 0.01	4.9	30%	Pass	
Zinc	mg/L	0.57	0.59	2	30%	Pass	
[Duplicate of 11:FE00903 - BATCH]							
Heavy Metals							
		Result 1	Result 2	RPD			
Mercury	mg/L	< 0.001	< 0.001	<1	30%	Pass	
[Spike of 11:FE00310 - BATCH] - % Recovery							
Heavy Metals (7)							
		Result 1					
Arsenic	%	96			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	94			75 - 125	Pass	
Copper	%	90			75 - 125	Pass	
Lead	%	91			75 - 125	Pass	
Nickel	%	90			75 - 125	Pass	
Zinc	%	98			75 - 125	Pass	
[Spike of 11:FE00903 - BATCH] - % Recovery							
Heavy Metals							
		Result 1					
Mercury	%	98			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within Holding Time	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code Description

Q15 The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant info

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

☐ For Regional Information & Filing

☒ Regional Action Required

Admin. Office: Contaminated Land Unit, Southern Region

Project No: P13530

Client No: 658621 EMR/CLR ID No. 31053

Permit No. CEB01486111

App: 454254

(2000m3)

Ecoaccess Customer Service Unit

CROW No. 53890

Application for Disposal Permit (Contaminated Land) Checklist

☒	Part A and Part B application forms supplied and complete.
☒	Forms signed and dated
☒	All parts of the forms completed
☒	Letter of acceptance from Landfill etc
☐	TPR approval received (if one is appointed for the site (Contaminated Land Unit to action).



Applicant Name: Brisbane City Council

Contact Name: Carl Douthwaite

Location: 4/SP128032 175 Bowen Tce. Fortitude Valley

Third Party Reviewer: —
(If applicable)

Co-ordinator: Ria George

Date Received:

10 / 02 / 11

Due Date

(10 business days after application deemed valid):

24 / 2 / 2011

Date Application Deemed Valid:

10 / 02 / 11

Due Date (TPR)

(5 business days after application deemed valid)

— / — / —

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	Ecoaccess CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	Ecoaccess CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	Ecoaccess CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	Ecoaccess CSU Staff:			

Bring Up Details Report

193530 - HR601781/Howard Smith Wharves (Brisbane Central Wharves)

Ref:	71085	Created Date:	11-FEB-11
Status:	Submitted	Closed Date:	
Assigned To:	BARRY, Kim	Due Date:	16-FEB-11
Email Address:	Kim.Barry@derm.qld.gov.au	Reminder Date:	
Project Director:			
Project Manager:			
CC:			
CC:			
Subject:	Disposal Permit-App No:454254		
Comments:	<p>Disposal Permit</p> <p>Project Number: 193530 Permit Number: CLEB01486111 TPR Client: Brisbane City Council Lot on Plan: Lot 4 on SP128032 Location: Howard Smith Wharves Parkland Report Title: Application Date: 10/2/2011</p> <p>Dear Kim</p> <p>A Disposal Permit application has been received and entered into Ecotrack</p> <p>The application will be forwarded to Contaminated Land Unit on the 11/02/11.</p> <p>Regards,</p> <p>Liz James</p>		



Project Running Report

Date 03-NOV-2010 Status Application Validation Decision Level 2

Coastal - MCU which will involve operational works

Locations

Name	Address Line 1	Address Line 2	Suburb	Postcode	State
Howard Smith					
Warves Parkland					

Agency Interests/Ratings

Category	Type	Rating
Coastal	Coastal - strategic planning	Unknown (default)
Coastal	Coastal - strategic planning	Unknown (default)
Heritage	Heritage - historic buildings and locations	Unknown (default)
Land	Land - contaminated land	Unknown (default)

Permits: 4

Permit Ref	Permit Type	Status
SPAR01232410	Advice Agency Response.	Assessment
SPCL01232510	Concurrence Response for a MCU involving contaminated land.	Assessment
SPCC01232610	Concurrence Response for a MCU within a coastal management district.	Assessment
SPCC01232710	Concurrence Response for Operational Work.	Assessment

Date 10-FEB-2011 Status Assessment Decision Level 2

Primary Clients

Name	Address Line 1	Address Line 2	Suburb	Postcode	State
Brisbane City Council	Green Square South Tower	505 St Pauls Terrace	FORTITUDE VALLEY	4006	QLD

Primary Contact

Name	Contact Number
Brisbane City Council	07 3027 4726

Activities

Name
Movement, Treatment Or Disposal Of Contaminated Soil

Locations

Name	Address Line 1	Address Line 2	Suburb	Postcode	State
Howard Smith					
Warves Parkland					

Agency Interests/Ratings

Category	Type	Rating
----------	------	--------

Permits: 1

Permit Ref	Permit Type	Status
CLEB01486111	Contaminated Soil Disposal Permit	Assessment

4/2/11
s.73 In

FOR INTERNAL USE ONLY

DEPARTMENT OF ENVIRONMENT AND RESOURCE MANAGEMENT

SEARCH RESPONSE

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

Transaction ID: 1289840
2011

EMR Site Id: 31053

10 February

This response relates to a search request received for the site:

Lot: 4 Plan: SP128032

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.

Lot	Plan	
2	B3333	EMR
2	RP44680	EMR
2	RP8616	EMR
4	RP41821	EMR
21	RP8614	EMR
22	RP8614	EMR

ADDITIONAL ADVICE

EMR/CLR Searches may be conducted online through www.smartservice.qld.gov.au or
Citec Confirm www.confirm.com.au.

If you have any queries in relation to this search please phone (07) 3330 5685.

Darryl Byers
Registrar, Contaminated Land Unit

To execute a new search, select the "Back" button on the browser twice



Dedicated to a better Brisbane

Phone direct: 07 302 74726

Fax direct: 07 333 40071

Email: carl.dowthwaite@brisbane.qld.gov.au

RECEIVED

10 FEB 2011

PaLM

Brisbane Infrastructure

City Design

Level 1 Green Square 505 St Pauls Terrace

Fortitude Valley Qld 4006

GPO Box 1434 Brisbane Qld 4001

T 07 3027 4748 F 07 3334 0212

7 February 2011

Ecoaccess Customer Service Unit
Department of Environment and Resource Management
PO Box 15155
CITY EAST 4002

Re: HOWARD SMITH WHARF, FORTITUDE VALLEY CONTAMINATED SOIL DISPOSAL PERMIT

Council is currently undertaking an upgrade of the Howard Smith Wharf site at 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032). The site is currently listed on the Environmental Management Register (EMR) as a Hazardous Contaminant Site. In undertaking this upgrade an estimated 2000m³ of material has been removed from the adjacent rock face and excavated from the sites floor before being stockpiled onsite.

Due to the homogenous nature of the material a reduced number of samples (27) were submitted to the laboratory for analysis. Analysis of the stockpiled material recorded elevated metal concentrations of Zinc (3000mg/kg), Lead (420mg/kg), Copper (930mg/kg) and Arsenic (31mg/kg). These results are above the Ecological Investigation Levels detailed within Table 5A – Soil Investigation Levels of the National Environmental Protection Measure (1999).

Council has approval to dispose of the material at the Transpacific New Chum Landfill Facility and is submitting the attached application for a Contaminated Soil Disposal Permit.

I trust this information is sufficient, should you have any questions or require further information please contact Carl Dowthwaite on 3027 4726.

Regards
s.73 Irrelevant i

Greg McPherson
Principal Engineer
Contaminated Land Services - City Design

Attachments:

Part A: General Details for all Applications

Part B: Application for Contaminated Soil Disposal Permit

Attachment A: Written Acceptance from Transpacific Landfill Facility and Certificate of Title;

Attachment B: Sample Location Map and Certificate of Title;

Attachment C: Tabulated Analysis Results;

Attachment D: Soil Analysis Lab Results; and

Attachment E: TCLP Lab Results.

Published on DES Disclosure Log
RTI Act 2009

Application Form

Part A

General details for all applications

OFFICIAL USE ONLY

DATE RECEIVED

FILE REF

PROJECT REF

COMPLETE FORM

☐

ENTERED BY [SIGNATURE]

DATE

RECEIPTING DETAILS ONLY

DATE RECEIPTED

RECEIPT NUMBER

AMOUNT RECEIVED

\$

PROCESSED BY (INITIALS AND NAME)

GUIDE

1. The applicant is the person intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the address of a person and cannot be a post office box.

If more than one applicant as part of a partnership, complete the "Joint applicant details" form and attach to this PART A form.

Important information for applicants

This form asks for general applicant details and a description of the proposed project and any associated activities. The completed form must be submitted together with relevant activity specific [Part B] forms and any other associated forms included in your application kit.

Specific details must accompany this form to enable your application to be processed. The guide provided will help you complete your application correctly. If you have any difficulties completing the form, contact the Ecoaccess Customer Service Unit desk on 1300 368 326. Please number all attachments alphabetically (e.g. 'Attachment A').

(Commercial and confidential information must be marked clearly. If subsequent activities are added to the project, you will be required to resubmit this application with details of the additional activity).

Tick relevant boxes below if the applicant(s) are:

- ☐ an individual or sole trader
☐ individuals in a partnership
☐ individual(s) acting on behalf of an unincorporated organisation

→ Go to Section 1

- ☒ an incorporated company
☐ an incorporated association
☐ a statutory authority
☐ a body politic

→ Go to Section 2

1. Individual applicant(s) details⁽¹⁾

APPLICANT'S FULL NAME		TITLE	DATE OF BIRTH
REGISTERED ADDRESS			POST CODE
TELEPHONE	FACSIMILE	E-MAIL	
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS)			POST CODE

Application form – Part A
General details for all applications

Guardian details (if applicable)

A parent or legal guardian must complete the following details if an applicant is under 18 years of age.

GUARDIAN'S FULL NAME	DATE OF BIRTH
GUARDIAN'S REGISTERED ADDRESS	POST CODE
GUARDIAN'S SIGNATURE	DATE

→ Go to Section 3

2. Applicant details

2. The applicant is the registered legal entity (not a business trading name) intending to carry out the activity and in whose name the relevant permits or licences are to be issued.

The registered address is legally required for the serving of notices. It is the registered business address of the company making the application and cannot be a post office box.

Enter the Australian Business Number (ABN); or the Australian Company Number (ACN) of the incorporated company; or the Association Number (AN) of the incorporated association; or the title and section of the legislation that gives the statutory corporation its legal status.

REGISTERED LEGAL ENTITY NAME Brisbane City Council		
TRADING NAME (IF APPLICABLE)		
REGISTERED ADDRESS GPO Box 1434, Brisbane, QLD Green Square South Tower 505 St Pauls Terrace, Fortitude Valley		POST CODE 4001
TELEPHONE 3027 4726	FACSIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE
ABN/ACN/AN OR TITLE AND SECTION OF LEGISLATION 72002765795		

Principal contact or person in charge details

PRINCIPAL CONTACT/PERSON IN CHARGE FULL NAME Carl Dowthwaite		TITLE Mr
POSITION IN CORPORATION Environmental Officer		
TELEPHONE 3027 4726	FASCIMILE 3334 0071	E-MAIL/WEBSITE
POSTAL ADDRESS (WRITE "AS ABOVE" IF THE SAME AS REGISTERED ADDRESS) as above		POST CODE

Authorised signatory

The authorised signatory is the person authorised to sign an application on behalf of a corporation and in doing so declares that the corporation will be bound by the conditions associated with the granting of the licence or permit.

AUTHORIZED SIGNATORY FULL NAME Greg McPherson	TITLE Mr
POSITION IN CORPORATION Senior Environmental Engineer	

3. Project details

Pre-lodgement

Have you previously attended a pre-lodgement meeting or submitted a pre-lodgement form for this project?

☒ NO ☐ YES

PROJECT NUMBER (IF APPLICABLE)

Project description

Briefly describe the proposed activities, works, development or management. Attach a separate sheet if there is insufficient space below.

DESCRIPTION
Application for a Contaminated Soil Disposal Permit for stockpiled material removed from the adjacent rock face at Howard Smith Wharf.

Approvals required

Please list all Part B application forms you are attaching to this form.

APPLICATION FORMS

Application for Contaminated Soil Disposal Permit

Project site

Where will the activities be conducted? Provide the street address, real property description(s) of the land(s) in which the project is located and local government area. If you require more space, attach a separate sheet.

This information should at least provide enough details to allow an EPA or QPWS officer to locate the site of the proposal.

STREET ADDRESS

Howard Smith Wharf
175 Bowen Terrace, Fortitude Valley, 4006

LOT

4

PLAN

SP 128032

LOCAL GOVERNMENT AREA

Brisbane City

If possible, provide a specific location within a protected area, a property name or an attached map with the project area clearly delineated. Also include the map name/details.

Give as much information as possible to accurately locate your activity, for example maps with contextual or boundary lines on plan or GPS boundary co-ordinates.

SPECIFIC LOCATION/PROPERTY NAME

PROTECTED AREA

GEOGRAPHICAL CO-ORDINATES

Geographical co-ordinates can include northing/easting, longitude/latitude.

Attachments

List all attached documents, including maps containing information supporting this application in the space below. If there are no attachments mark "N/A."

Label all attachments alphabetically (e.g. 'Attachment A')

ATTACHMENTS (LABEL ALL ATTACHMENTS ALPHABETICALLY – E.G. "ATTACHMENT A")

1. Cover Letter; 2. Application for Contaminated Soil Disposal Permit; Attachment A: Written Acceptance from Transpacific New Chum Landfill and Certificate of Title; Attachment B: Sample Location Map and Certificate of Title; Attachment C: Tabulated Analysis Results; Attachment D: Soil Analysis Lab Results; Attachment E: TCLP Lab Results.

4. Applicant's certification

Note: If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act 1867*.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

APPLICANT(1) SIGNATURE	s.73 Irr
	s.73 irrelevant inform

Joint applicant signatures (if applicable)

APPLICANT(2) SIGNATURE

APPLICANT(3) SIGNATURE

APPLICANT(4) SIGNATURE

APPLICANT(5) SIGNATURE

DATE

Complete the following checklist.

- ☒ Application form(s) signed and completed
- ☒ Permit fees paid or enclosed (if applicable)
- ☒ Supporting information attached (e.g. maps)

Please return your completed application kit to:

**Ecoaccess Customer Service Unit
Environmental Protection Agency**

PO Box 15155
City East
Queensland 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
Email: eco.access@epa.qld.gov.au

Application form

Environmental Protection Act

Application for contaminated soil disposal permit – Part B

This form sets out the specific details required for an application under s424 of the Environmental Protection Act 1994 for a permit to dispose of contaminated soil offsite. A contaminated soil disposal permit is required before you can proceed lawfully with your project and any associated activities.

1. Specific information requirements

Please provide details of site(s) from which soil is to be removed

If you require additional space, attach the information requested and make reference to that sheet here.

FULL STREET ADDRESS OF SITE(S) 175 Bowen Terrace, Fortitude Valley	
LOT(S) 4	PLAN(S) SP128032
LOCAL GOVERNMENT AREA Brisbane City	

Has a site investigation report been submitted to the Environmental Protection Agency (EPA)?

☒ NO☐ YES

EPA PROJECT REFERENCE OR FILE NUMBER? (IF KNOWN)

Please provide a copy of the current Certificate of Title to the land

☒ ENCLOSED WITH THIS APPLICATION☐ SUBMITTED PREVIOUSLY TO EPA AS PART OF A SITE INVESTIGATION / VALIDATION REPORT

Has the site been used for a notifiable activity as per Schedule 3 of the *Environmental Protection Act 1994*?

☐ NO☒ YES (PLEASE SPECIFY) HAZARDOUS CONTAMINANT SITE

Is the site presently being used for a notifiable activity?

☒ NO☐ YES (PLEASE SPECIFY)

Is the site currently on the Environmental Management Register or Contaminated Land Register?☒ YES ☐ NO (IF NO, YOU MUST SUBMIT A NOTIFICATION FORM TO THE EPA)**Has contaminated soil been removed from this site in the past?**☒ NO (GO TO QUESTION 19) ☐ YES**Was approval for off-site disposal obtained?**☐ NO ☐ YES**What is the approximate volume (in cubic metres) of soil to be removed (allowing for excavation bulking)?**

2000 m3

How did you calculate the volume of soil to be removed?

Estimation using the depth, width and length of excavation area

What are the dates between which soil will be moved to the disposal location?FROM DATE:
10/02/2011TO DATE:
10/07/2011

(In accordance with Section 424(7), permits will only be valid between dates stipulated in the disposal permit)

Justification of request?

State reason(s) why on-site treatment or management is not proposed

The material was removed from the adjacent rockface and excavated from fill areas onsite. There is no location where the excavated material could be reused on site.

Will validation sampling be undertaken to confirm that all soil has been removed?☒ NO ☐ YES

Provide a description of the contamination present in the soil to be removed?

Analysis results show Zinc, Lead and Copper to be above NEPM Ecological Investigation Levels.

Please tick relevant boxes to indicate that you have attached the following information with this application?

- ☒ Scaled plan showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ Toxicity Characteristic Leaching Procedure (TCLP) results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analysis
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained

Written acceptance from owner of site receiving contaminated soil?

- (a) ☐ Soil being removed to a local government administered landfill

NAME AND ADDRESS OF LOCAL GOVERNMENT ADMINISTERED LANDFILL

- ☐ **Written acceptance from local government authority is enclosed**

- (b) ☒ Soil being removed not going to a local government-administered landfill

- ☐ Copy of Certificate of Title for the disposal location site

LOT(S) 268

PLAN(S) SP103913

FULL STREET ADDRESS OF SITE(S)

100 Chum Street, New Chum, 4303

- ☒ Written acceptance from registered owner of site is enclosed with this application

Declaration

Note: If you do not tell the truth in this application you may be liable for prosecution under the relevant legislation.

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under s480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know to be false, misleading or incomplete in a material particular; and
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Freedom of Information Act 1992* and the *Evidence Act 1977*.

Application form – Part B
Contaminated soil disposal permit

APPLICANT'S NAME Greg McPherson	PRINT NAME OF APPOINTED SIGNATORY (IF APPLICABLE)
APPLICANT'S SIGNATURE / APPOINTED SIGNATORY s.73 Irrelevant information	DATE 7/02/2010

Applicant checklist

- ☒ Application form(s) completed and signed
- ☒ Supporting information attached (if applicable)

Please return your completed application kit to:

Ecoaccess Customer Service Unit
Environmental Protection Agency
PO Box 15155
City East QLD 4002

Enquiries: **1300 368 326**
Facsimile: (07) 3115 9600
eco.access@epa.qld.gov.au

You may apply for an exemption from disclosing information contained in a document submitted, or proposed to be submitted with this application (see Section 564 of the *Environmental Protection Act 1994*).

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RTI Act 2009

Attachment A

Published on DES Disclosure Log
RTI Act 2009



RECEIVED
10 FEB 2011
PaLM

7th Feb 2011

Water and Environment
Brisbane City Council - City Design

Solid Waste Division

Transpacific Waste Management
ABN: 55 120 175 635

100 Chum Street
New Chum QLD 4303
PO Box 384
BOOVAL FAIR QLD 4304
Phone: + 07 3816 2166
Fax: + 07 3816 3055

ATTENTION: ERIK DEKKER
SENIOR ENVIRONMENTAL OFFICER

Dear Erik,

RE: ACCEPTANCE OF CONTAMINATED SOIL – Brisbane River (below story bridge) 175 Bowen Terrace, Fortitude Valley 4006 (Lot 4 on SP 128032).

Following your email correspondence and provision of laboratory results, I consider we are able to accept 2000 m³ of soil for disposal to our **unlined landfill cell** from Brisbane River (below story bridge) 175 Bowen Terrace, Fortitude Valley 4006 (Lot 4 on SP 128032).

A condition of this acceptance letter being issued is that the applicant **must** inform Landfill Management of the dates that the contaminated soil will be transported to the landfill.

We consider that this material will fall within the acceptance criteria of Transpacific Waste Management's DERM Licence. Our DERM licence number is ENRE00102604 and our lot on plan is Lot 268 on SP103913. If you require any additional information please do not hesitate to contact the undersigned on (07) 3816 2166.

Yours sincerely,

s.73 Irrelevant infor

Environmental/Technical Manager

Head Office: 1st Floor 159 Coronation Drive Milton QLD 4064 Australia
PO Box 1824 Milton BC QLD 4064 Australia
Telephone: + 61 7 3367 7800 | Facsimile: + 61 7 3367 7899 | www.transpacific.com.au

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217
Search Date: 07/06/2010 14:29

Title Reference: 50213117
Date Created: 01/04/1998

Previous Title: 50089779
50089780

REGISTERED OWNER

Dealing No: 710871395 03/08/2007

TRANSPACIFIC WASTE MANAGEMENT PTY LTD
A.C.N. 120 175 635

ESTATE AND LAND

Estate in Fee Simple

LOT 268 SURVEY PLAN 103913
County of STANLEY Parish of GOODNA
Local Government: IPSWICH

For depth restrictions refer to Plan SP 103913

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10031168 (POR 220)
Deed of Grant No. 10033067 (POR 219)
Deed of Grant No. 10046194 (Lot 218 on CP SL10024)
Deed of Grant No. 10046196 (POR 217)
Deed of Grant No. 10105131 (POR 264)
Deed of Grant No. 10116209 (POR 265)
Deed of Grant No. 10116210 (POR 268)
Deed of Grant No. 10118171 (POR 269)
Deed of Grant No. 17761240 (Lot 299 on CP 892008)
Deed of Grant No. 18789219 (Lot 65 on CP 816935)
2. EASEMENT IN GROSS No 601143346 (D953347) 10/11/1970
BURDENING THE LAND
TO THE QUEENSLAND ELECTRICITY GENERATING BOARD
OVER EASEMENTS B AND C ON RP126793
3. TRANSFER No 703630291 14/10/1999 at 08:19
EASEMENT IN GROSS: 601143346 (D953347)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233
4. EASEMENT IN GROSS No 602211776 (D953349) 10/11/1970
burdening the land
QUEENSLAND ELECTRICITY COMMISSION
over
EASEMENT B ON RP126945
5. TRANSFER No 703675243 05/11/1999 at 07:49
EASEMENT IN GROSS: 602211776 (D953349)
QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
A.C.N. 078 849 233

CURRENT TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 9389217

Search Date: 07/06/2010 14:29

Title Reference: 50213117

Date Created: 01/04/1998

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

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Requested By: External Supervisor

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RTI Act 2009

Attachment B

Published on DES Disclosure Log
RTI Act 2009



MAILING ADDRESS:
GPO Box 1434
Brisbane Qld 4001



Green Square
South Tower
505 St. Paul's Terrace
Fortitude Valley Qld 4006

Telephone: (07) 3027 5550
Facsimile: (07) 3334 0225

E-mail: citydesign@brisbane.qld.gov.au

Dedicated to a better Brisbane
City Design
Brisbane City Council

LEGEND



Stockpile Area

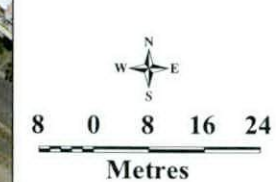


Sample Location

Copyright and Data Disclaimer

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Copyright of data is as follows:
Cadastral © 2010 Department of Environment and Resource Management, Street Names and House Numbers © 2010
Newmap 2011 Aerial Imagery © 2008 AAM Match, 2008 Digital Globe Quickbird Satellite Imagery © 2008 Digital
Globe, 2008 contours © 2008 AAM Match, 2008 Brinsley © 2008 Malvern Publishing.



Printed 7 Feb 11

Project Number	NA	Revision	1	Prepared	CD	Checked	CD
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Workspace NA

Project **Howard Smith Wharf**

Title **Sample Location Map**

Page 213 of 366

From: Carl Dowthwaite
To: Anderson, Candice
Date: 7/02/2011 9:26:28 am
Subject: Urgent Historical Title Search

Candice,

Could you please undertake a Historical Title Search for 175 Bowen Terrace, Fortitude Valley (Lot 4 SP128032).

Scan and send to me today thanks

Regards,

Carl Dowthwaite
Environmental Officer

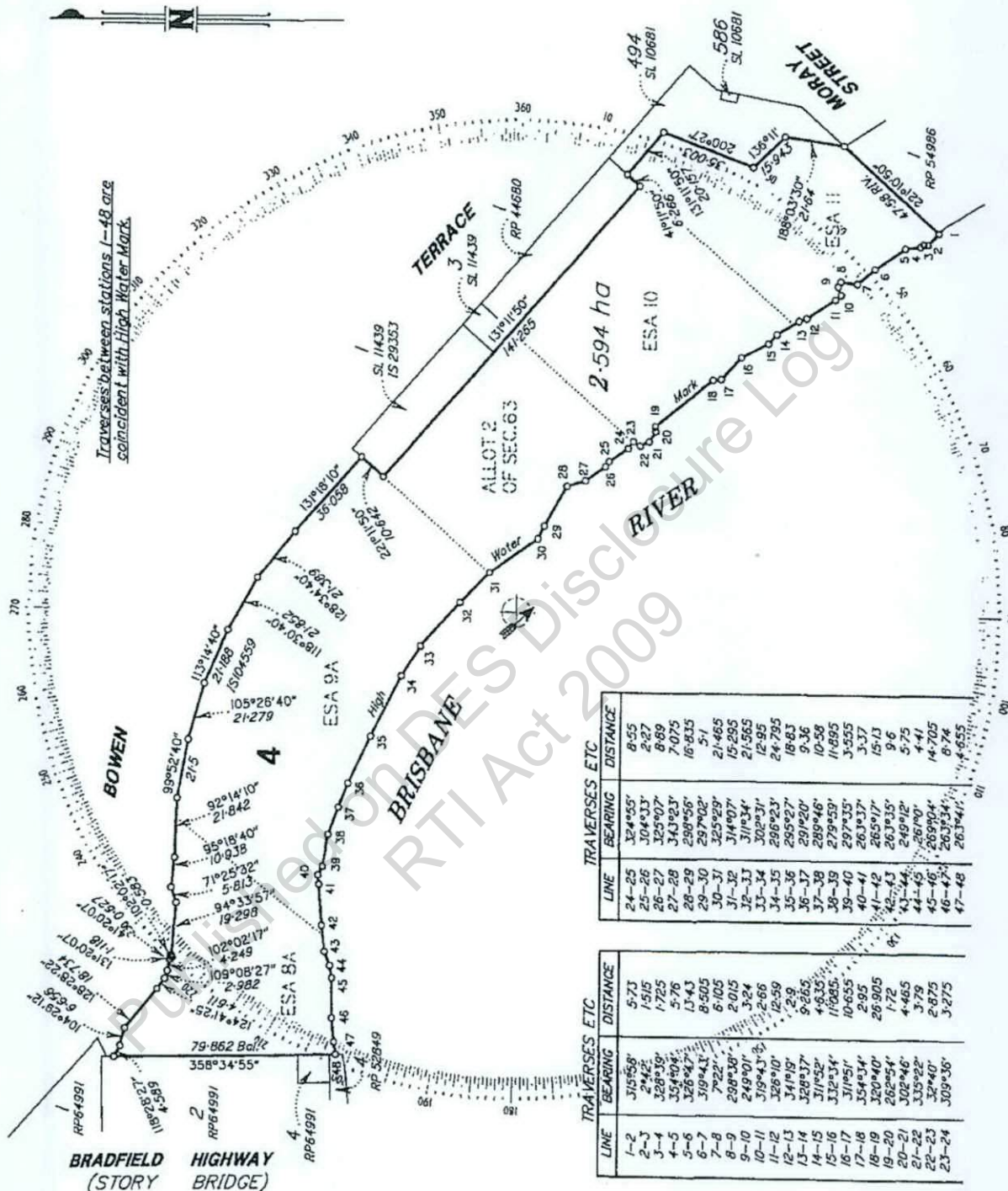
Water and Environment
Brisbane City Council - City Design
Ph: 3027 4726 | Fax: 3334 0071
Email: carl.dowthwaite@brisbane.qld.gov.au

CC: Dekker, Erik

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RTI Act 2009

SURVEY PLAN

Steel	0
1	1



Kellor Fox & McGhie Pty. Ltd. ACN 010 152 197
herby certify that the Company has made this plan
pursuant to Section 25 of the Surveyors Regulation
1992, and that the plan is accurate, and complied from
RC906985 & CP90874 in the Department of Natural
Resources. 



Director and Licensed Surveyor

Director

Date 13.6.00

Plan of Lot 4

*Cancelling U.S.L. being Lot 2 on B3333, the balance of
Lots 21 & 22 on RP8614, Lot 2 on RP8616, the balance of
Lot 4 on RP41821, Lot 2 on RP44680 and Lot 4 on CP890874*

PARISH: *NORTH BRISBANE* COUNTY: *Stanley*

Meridien. *AMG Zone 56 Vide RC906986*

F/N's: NO

Scale 1:1500

Formal STANDARD



SP 128032

Plan Status	
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HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906021

Search Date: 07/02/2011 10:12

Title Reference: 50323249

Date Created: 31/07/2000

Previous Title: 40025609

REGISTERED OWNER

Dealing No: 707890862 14/07/2004

BRISBANE CITY COUNCIL

TRANSFER No 707890862

BRISBANE CITY COUNCIL

Lodged at 13:58 on 14/07/2004

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
County of STANLEY Parish of NORTH BRISBANE
Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES

Dealing	Type	Lodgement Date	Status
713597367	HERITGE SITE	30/11/2010 11:14	CURRENT
QUEENSLAND HERITAGE ACT 1992			

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

** End of Historical Title Search **

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Requested By: External Supervisor

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

This Title Has Been Fully Cancelled.

[Form 1.1] Title Reference: 40025609

QUEENSLAND

DEED OF GRANT OF LAND

Land Act 1994

Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

WE, with the advice of the Executive Council, under the Land Act 1994,
grant in fee simple all that parcel of land described in Schedule 1 to the
person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other
reservations and conditions as may be contained in and declared by the
laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

HISTORICAL TITLE SEARCH

ENVIRONMENT AND RESOURCE MANAGEMENT, QUEENSLAND

Request No: 10906038

Search Date: 07/02/2011 10:12

Title Reference: 40025609

Date Created: 28/07/2000

REGISTERED OWNER

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT
OF PUBLIC WORKS - GLR 10891)

ESTATE AND LAND

Estate in Fee Simple

LOT 4 SURVEY PLAN 128032
 County of STANLEY Parish of NORTH BRISBANE
 Local Government: BRISBANE CITY

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. REQUEST FOR INDEFEASIBLE TITLE No 704219938
An Indefeasible Title is requested for the land
Lodged at 10:05 on 28/07/2000
2. Rights and interests reserved to the Crown by
Deed of Grant No. 40025609 (Lot 4 on SP 128032)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Historical Title Search **

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Requested By: External Supervisor

[Form 1.1]

Title Reference: 40025609



QUEENSLAND

DEED OF GRANT OF LAND



40025609

Land Act 1994

Elizabeth the Second, by the Grace of God, Queen of Australia,
and Her other Realms and Territories, Head of the Commonwealth:-

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

WE, with the advice of the Executive Council, under the Land Act 1994, grant in fee simple all that parcel of land described in Schedule 1 to the person described in Schedule 2,

SUBJECT TO the reservations and conditions specified, and such other reservations and conditions as may be contained in and declared by the laws of the State.

Specified Reservations -

- (a) All minerals (as defined by the Mineral Resources Act 1989) on and below the surface of the land
- (b) The right of access for the purpose of searching for and working any mines (as defined by the Mineral Resources Act 1989) in any part of the land
- (c) All petroleum (as defined by the Petroleum Act 1923) on and below the surface of the land
- (d) All rights of access for the purpose of searching for and for the operations of obtaining petroleum in any part of the land, and all rights of way for access and for pipelines and other purposes requisite for obtaining and conveying petroleum in the event of petroleum being obtained in any part of the said land
- (e) All quarry material (as defined by the Forestry Act 1959) on and below the surface of the land

Specified Conditions - Nil

IN TESTIMONY WHEREOF, WE have caused this OUR grant to be sealed with the Seal of the State of Queensland.

WITNESS Our Trusty and Well-beloved His Excellency Major General Peter Arnison, Officer of the Order of Australia, Governor in and over the State of Queensland and its Dependencies, in the Commonwealth of Australia at Government House, Brisbane, in Queensland aforesaid, this 27th day of July, in the 49th Year of Our Reign and in the year of Our Lord 2000.

SCHEDULE 1 - DESCRIPTION OF LAND

Lot/Plan:
4/SP128032

County
STANLEY

Parish
NORTH BRISBANE

Area 2.594 Ha.

s.73 Irrelevant information

Note: For details of description, dimensions and marking of boundaries refer to plan mentioned above.

SCHEDULE 2 - GRANTEE

THE STATE OF QUEENSLAND (REPRESENTED BY THE DEPARTMENT OF PUBLIC WORKS - GLR 10891)

Attachment C

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Table 1: Summary of Soil Analysis Results

ANALYTE	Units	LOR	Assessment Guidelines		HSW1	HSW2	HSW3	HSW4	HSW5	HSW7	HSW9	HSW11	HSW13	HSW15	HSW17	HSW19	HSW21	HSW23	HSW24	HSW27	HSW29	HSW31	HSW32	HSW33	HSW34	HSW35	HSW36	HSW37	HSW38	HSW39	HSW40
			ETIL	HIL "A"																											
Moisture Content																															
Moisture Content (dried @ 103°C)	%	1.0	-	-	20	21	17	19	16	18	17	17	25	13	19	18	22	20	20	2.1	4.2	8.5	5.8	20	19	18	18	12	11	6.8	15
Total Metals																															
Arsenic	mg/kg	5	20	100	15	7.7	11	8.4	14	28	8.6	6.9	31	11	7	6.9	8.9	7.1	10	9.7	12	5.9	16	13	7.7	6.7	9.2	16	8	< 2	15
Cadmium	mg/kg	1	3	20	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8
Chromium	mg/kg	2	-	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	8	5.1	5.2	< 5	< 5	< 5	< 5	
Copper	mg/kg	5	60	1000	24	17	25	21	23	23	20	18	930	47	16	14	25	27	22	27	13	9.1	23	32	25	29	910	9.7	10	19	32
Lead	mg/kg	5	600	300	100	120	130	140	120	120	420	120	110	400	110	94	140	140	160	170	83	85	140	180	180	170	160	41	25	15	320
Nickel	mg/kg	2	60	600	8.2	< 5	7	5.4	5.6	17	5.3	< 5	< 5	5.7	< 5	< 5	7.3	5.6	< 5	9.5	< 5	< 5	5.4	6.6	7.6	11	19	6	8.6	9.5	11
Zinc	mg/kg	5	200	7000	580	500	1000	690	730	920	810	700	470	950	430	350	810	880	740	650	160	190	540	1500	1600	1900	1500	310	160	89	3000
Mercury																															
Mercury	mg/kg	0.1	1	15	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.1	0.1	0.8	0.1	0.1	< 0.1	< 0.1	< 0.1	0.1
Polynuclear Aromatic Hydrocarbons																															
Acenaphthene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Acenaphthylene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Anthracene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Benz(a)anthracene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.5	-	< 1	-	0.2	-	0.2	-	0.2	-	0.1	-	-	0.2	-	0.2	-	-	< 0.1	-	-
Benzo(a)pyrene	mg/kg	0.5	-	1	0.1	-	0.2	-	0.1	-	0.4	-	< 1	-	0.2	-	0.1	-	0.1	-	0.2	-	-	0.2	-	0.2	-	-	< 0.1	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	0.2	-	0.2	-	0.2	-	0.4	-	< 1	-	0.2	-	0.1	-	0.2	-	0.2	-	-	0.2	-	0.3	-	-	< 0.1	-	-
Benzo(g,h,i)perylene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.2	-	0.3	-	< 1	-	0.1	-	< 0.1	-	0.1	-	0.2	-	-	0.2	-	0.2	-	-	< 0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.5	-	-	< 0.1	-	0.1	-	< 0.1	-	0.2	-	< 1	-	0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	0.1	-	-	< 0.1	-	-
Chrysene	mg/kg	0.5	-	-	< 0.1	-	0.2	-	0.1	-	0.4	-	< 1	-	0.2	-	0.1	-	0.1	-	0.1	-	-	0.1	-	0.2	-	-	< 0.1	-	-
Dibenz(a,h)anthracene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Fluoranthene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.8	-	< 1	-	0.2	-	0.2	-	0.2	-	0.2	-	-	0.2	-	0.3	-	-	< 0.1	-	-
Fluorene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	-	-	0.1	-	0.2	-	0.1	-	0.3	-	< 1	-	0.1	-	< 0.1	-	< 0.1	-	0.1	-	-	0.1	-	0.2	-	-	< 0.1	-	-
Naphthalene	mg/kg	0.5	-	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	< 0.1	-	-	< 0.1	-	-
Phenanthrene	mg/kg	0.5	-	-	< 0.1	-	0.1	-	< 0.1	-	0.6	-	< 1	-	0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	-	< 0.1	-	0.1	-	-	< 0.1	-	-
Pyrene	mg/kg	0.5	-	-	0.1	-	0.3	-	0.2	-	0.6	-	< 1	-	0.2	-	0.2	-	0.2	-	0.2	-	-	0.2	-	0.2	-	-	< 0.1	-	-
Total PAH	mg/kg	-	-	20	0.9	-	2	-	1.3	-	4.5	-	< 1	-	1.6	-	0.9	-	1.1	-	1.3	-	-	1.4	-	2	-	-	< 0.1	-	-

Notes:

ETIL	Urban Ecological Investigation Threshold Levels (NEPM, 1999)
HIL "A"	Health Based Investigation Level - "Standard Residential with Garden Accessible Soil" (NEPM 1999)
"-"	Not Available/Not Relevant

Attachment D

Published on DES Disclosure Log
RTI Act 2009

Certificate of Analysis

Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

NATA Accredited
Laboratory Number 1261



The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement.
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Attention: Carl Douthwaite

Report

Client Reference
Received Date

288896-S
Howard Smith Wharf Disposal Permit
Feb 01, 2011

Client Sample ID			HSW1	HSW2	HSW3	HSW4
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50221	11-FE50222	11-FE50223	11-FE50224
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.1	-	0.2	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.1	-
Chrysene	0.1	mg/kg	< 0.1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.1	-	0.3	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.2	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.1	-
Pyrene	0.1	mg/kg	0.1	-	0.3	-
Total PAH	0.1	mg/kg	0.90	-	2.0	-
p-Terphenyl-d14 (surr.)	1	%	93	-	116	-
2-Fluorobiphenyl (surr.)	1	%	104	-	128	-
% Moisture	0.1	%	20	21	17	19
Heavy Metals (7)						
Arsenic	2	mg/kg	15	7.7	11	8.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	24	17	25	21
Lead	5	mg/kg	100	120	130	140
Nickel	5	mg/kg	8.2	< 5	7.0	5.4
Zinc	5	mg/kg	580	500	1000	690
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW5	HSW7	HSW9	HSW11
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50225	11-FE50227	11-FE50229	11-FE50231
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.5	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.4	-
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	0.4	-
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	0.3	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	0.2	-
Chrysene	0.1	mg/kg	0.1	-	0.4	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.8	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	0.3	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	0.6	-
Pyrene	0.1	mg/kg	0.2	-	0.6	-
Total PAH	0.1	mg/kg	1.3	-	4.5	-
p-Terphenyl-d14 (surr.)	1	%	104	-	88	-
2-Fluorobiphenyl (surr.)	1	%	120	-	103	-
% Moisture	0.1	%	16	18	17	17
Heavy Metals (7)						
Arsenic	2	mg/kg	14	28	8.6	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	23	23	20	18
Lead	5	mg/kg	120	120	420	120
Nickel	5	mg/kg	5.6	17	5.3	< 5
Zinc	5	mg/kg	730	920	810	700
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW13	HSW15	HSW17	HSW19
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50233	11-FE50235	11-FE50237	11-FE50239
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	< 1	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	< 1	-	0.2	-
Benzo(b)fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 1	-	0.1	-
Chrysene	0.1	mg/kg	< 1	-	0.2	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	< 1	-	0.2	-
Fluorene	0.1	mg/kg	< 1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 1	-	0.1	-
Naphthalene	0.1	mg/kg	< 1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 1	-	0.1	-
Pyrene	0.1	mg/kg	< 1	-	0.2	-
Total PAH	0.1	mg/kg	< 1	-	1.6	-
p-Terphenyl-d14 (surr.)	1	%	77	-	98	-
2-Fluorobiphenyl (surr.)	1	%	93	-	111	-
% Moisture	0.1	%	25	13	19	18
Heavy Metals (7)						
Arsenic	2	mg/kg	31	11	7.0	6.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	930	47	16	14
Lead	5	mg/kg	110	400	110	94
Nickel	5	mg/kg	< 5	5.7	< 5	< 5
Zinc	5	mg/kg	470	950	430	350
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1

Client Sample ID			HSW21	HSW23	HSW24	HSW27
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50241	11-FE50243	11-FE50244	11-FE50247
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Benz(a)anthracene	0.1	mg/kg	0.2	-	0.2	-
Benzo(a)pyrene	0.1	mg/kg	0.1	-	0.1	-
Benzo(b)fluoranthene	0.1	mg/kg	0.1	-	0.2	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	0.1	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	< 0.1	-
Chrysene	0.1	mg/kg	0.1	-	0.1	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	< 0.1	-
Fluoranthene	0.1	mg/kg	0.2	-	0.2	-
Fluorene	0.1	mg/kg	< 0.1	-	< 0.1	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Naphthalene	0.1	mg/kg	< 0.1	-	< 0.1	-
Phenanthrene	0.1	mg/kg	< 0.1	-	< 0.1	-
Pyrene	0.1	mg/kg	0.2	-	0.2	-
Total PAH	0.1	mg/kg	0.90	-	1.1	-
p-Terphenyl-d14 (surr.)	1	%	96	-	98	-
2-Fluorobiphenyl (surr.)	1	%	112	-	111	-
% Moisture	0.1	%	22	20	20	2.1
Heavy Metals (7)						
Arsenic	2	mg/kg	8.9	7.1	10	9.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	25	27	22	27
Lead	5	mg/kg	140	140	160	170
Nickel	5	mg/kg	7.3	5.6	< 5	9.5
Zinc	5	mg/kg	810	880	740	650
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HSW29	HSW31	HSW32	HSW33
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50249	11-FE50251	11-FE50252	11-FE50253
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Acenaphthylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Benz(a)anthracene	0.1	mg/kg	0.1	-	-	0.2
Benzo(a)pyrene	0.1	mg/kg	0.2	-	-	0.2
Benzo(b)fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Benzo(g,h,i)perylene	0.1	mg/kg	0.2	-	-	0.2
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-	< 0.1
Chrysene	0.1	mg/kg	0.1	-	-	0.1
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-	< 0.1
Fluoranthene	0.1	mg/kg	0.2	-	-	0.2
Fluorene	0.1	mg/kg	< 0.1	-	-	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	0.1	-	-	0.1
Naphthalene	0.1	mg/kg	< 0.1	-	-	< 0.1
Phenanthrene	0.1	mg/kg	< 0.1	-	-	< 0.1
Pyrene	0.1	mg/kg	0.2	-	-	0.2
Total PAH	0.1	mg/kg	1.3	-	-	1.4
p-Terphenyl-d14 (surr.)	1	%	89	-	-	96
2-Fluorobiphenyl (surr.)	1	%	103	-	-	113
% Moisture	0.1	%	4.2	8.5	5.8	20
Heavy Metals (7)						
Arsenic	2	mg/kg	12	5.9	16	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	13	9.1	23	32
Lead	5	mg/kg	83	85	140	180
Nickel	5	mg/kg	< 5	< 5	5.4	6.6
Zinc	5	mg/kg	160	190	540	1500
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	0.1	0.1	0.1

Client Sample ID			HSW34	HSW35	HSW36	HSW37
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50254	11-FE50255	11-FE50256	11-FE50257
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.1	mg/kg	-	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	-	< 0.1	-	-
Anthracene	0.1	mg/kg	-	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	-	0.2	-	-
Benzo(a)pyrene	0.1	mg/kg	-	0.2	-	-
Benzo(b)fluoranthene	0.1	mg/kg	-	0.3	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	-	0.2	-	-
Benzo(k)fluoranthene	0.1	mg/kg	-	0.1	-	-
Chrysene	0.1	mg/kg	-	0.2	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	-	< 0.1	-	-
Fluoranthene	0.1	mg/kg	-	0.3	-	-
Fluorene	0.1	mg/kg	-	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	-	0.2	-	-
Naphthalene	0.1	mg/kg	-	< 0.1	-	-
Phenanthrene	0.1	mg/kg	-	0.1	-	-
Pyrene	0.1	mg/kg	-	0.2	-	-
Total PAH	0.1	mg/kg	-	2.0	-	-
p-Terphenyl-d14 (surr.)	1	%	-	95	-	-
2-Fluorobiphenyl (surr.)	1	%	-	110	-	-
% Moisture	0.1	%	19	18	18	12
Heavy Metals (7)						
Arsenic	2	mg/kg	7.7	6.7	9.2	16
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	8.0	5.1	5.2	< 5
Copper	5	mg/kg	25	29	910	9.7
Lead	5	mg/kg	180	170	160	41
Nickel	5	mg/kg	7.6	11	19	6.0
Zinc	5	mg/kg	1600	1900	1500	310
Heavy Metals						
Mercury	0.1	mg/kg	0.8	0.1	0.1	< 0.1

Client Sample ID			HSW38	HSW39	HSW40
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			11-FE50258	11-FE50259	11-FE50260
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.1	mg/kg	< 0.1	-	-
Acenaphthylene	0.1	mg/kg	< 0.1	-	-
Anthracene	0.1	mg/kg	< 0.1	-	-
Benz(a)anthracene	0.1	mg/kg	< 0.1	-	-
Benzo(a)pyrene	0.1	mg/kg	< 0.1	-	-
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1	-	-
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1	-	-
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1	-	-
Chrysene	0.1	mg/kg	< 0.1	-	-
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1	-	-
Fluoranthene	0.1	mg/kg	< 0.1	-	-
Fluorene	0.1	mg/kg	< 0.1	-	-
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1	-	-
Naphthalene	0.1	mg/kg	< 0.1	-	-
Phenanthrene	0.1	mg/kg	< 0.1	-	-
Pyrene	0.1	mg/kg	< 0.1	-	-
Total PAH	0.1	mg/kg	< 0.1	-	-
p-Terphenyl-d14 (surr.)	1	%	92	-	-
2-Fluorobiphenyl (surr.)	1	%	107	-	-
% Moisture	0.1	%	11	6.8	15
Heavy Metals (7)					
Arsenic	2	mg/kg	8.0	< 2	15
Cadmium	0.5	mg/kg	< 0.5	< 0.5	0.8
Chromium	5	mg/kg	< 5	< 5	< 5
Copper	5	mg/kg	10	19	32
Lead	5	mg/kg	25	15	320
Nickel	5	mg/kg	8.6	9.5	11
Zinc	5	mg/kg	160	89	3000
Heavy Metals					
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons - Method: USEPA 8270C Polycyclic Aromatic Hydrocarbons	Oakleigh	Feb 02, 2011	14 Day
% Moisture - Method: Method 102 - ANZECC - % Moisture	Oakleigh	Feb 02, 2011	14 Day
Heavy Metals (7) - Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 02, 2011	6 Month
Heavy Metals - Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 02, 2011	28 Day

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288896
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Douthwaite

Client Job No.: Howard Smith Wharf Disposal Permit

mgt-LabMark Client Manager: s.73 Irrele

Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
HSW1	Jan 27, 2011		Soil	M11-FE50221	X		X	X	X
HSW2	Jan 27, 2011		Soil	M11-FE50222	X		X		X
HSW3	Jan 27, 2011		Soil	M11-FE50223	X		X	X	X
HSW4	Jan 27, 2011		Soil	M11-FE50224	X		X		X
HSW5	Jan 27, 2011		Soil	M11-FE50225	X		X	X	X
HSW6	Jan 27, 2011		Soil	M11-FE50226		X			
HSW7	Jan 27, 2011		Soil	M11-FE50227	X		X		X
HSW8	Jan 27, 2011		Soil	M11-FE50228		X			
HSW9	Jan 27, 2011		Soil	M11-FE50229	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW10	Jan 27, 2011		Soil	M11-FE50230		X			
HSW11	Jan 27, 2011		Soil	M11-FE50231	X		X		X
HSW12	Jan 27, 2011		Soil	M11-FE50232		X			
HSW13	Jan 27, 2011		Soil	M11-FE50233	X		X	X	X
HSW14	Jan 27, 2011		Soil	M11-FE50234		X			
HSW15	Jan 27, 2011		Soil	M11-FE50235	X		X		X
HSW16	Jan 27, 2011		Soil	M11-FE50236		X			
HSW17	Jan 27, 2011		Soil	M11-FE50237	X		X	X	X
HSW18	Jan 27, 2011		Soil	M11-FE50238		X			
HSW19	Jan 27, 2011		Soil	M11-FE50239	X		X		X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW20	Jan 27, 2011		Soil	M11-FE50240		X			
HSW21	Jan 27, 2011		Soil	M11-FE50241	X		X	X	X
HSW22	Jan 27, 2011		Soil	M11-FE50242		X			
HSW23	Jan 27, 2011		Soil	M11-FE50243	X		X		X
HSW24	Jan 27, 2011		Soil	M11-FE50244	X		X	X	X
HSW25	Jan 27, 2011		Soil	M11-FE50245		X			
HSW26	Jan 27, 2011		Soil	M11-FE50246		X			
HSW27	Jan 27, 2011		Soil	M11-FE50247	X		X		X
HSW28	Jan 27, 2011		Soil	M11-FE50248		X			
HSW29	Jan 27, 2011		Soil	M11-FE50249	X		X	X	X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW30	Jan 27, 2011		Soil	M11-FE50250		X			
HSW31	Jan 27, 2011		Soil	M11-FE50251	X		X		X
HSW32	Jan 27, 2011		Soil	M11-FE50252	X		X		X
HSW33	Jan 27, 2011		Soil	M11-FE50253	X		X	X	X
HSW34	Jan 27, 2011		Soil	M11-FE50254	X		X		X
HSW35	Jan 27, 2011		Soil	M11-FE50255	X		X	X	X
HSW36	Jan 27, 2011		Soil	M11-FE50256	X		X		X
HSW37	Jan 27, 2011		Soil	M11-FE50257	X		X		X
HSW38	Jan 27, 2011		Soil	M11-FE50258	X		X	X	X
HSW39	Jan 27, 2011		Soil	M11-FE50259	X		X		X

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Sample Detail					% Moisture	HOLD	Mercury	Polycyclic Aromatic Hydrocarbons	Heavy Metals (7)
Laboratory where analysis is conducted									
Oakleigh Laboratory - NATA Site #1261					X	X	X	X	X
Thornleigh Laboratory - NATA Site #18217									
Asquith Laboratory - NATA Site #13535									
Clayton Laboratory - NATA Site #1645									
HSW40	Jan 27, 2011		Soil	M11-FE50260	X		X		X
HSW41	Jan 27, 2011		Soil	M11-FE50261		X			
HSW42	Jan 27, 2011		Soil	M11-FE50262		X			

mgt-LabMark Internal Quality Control Review General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A						
Acenaphthene	mg/kg	< 0.1		0.1	Pass	
Acenaphthylene	mg/kg	< 0.1		0.1	Pass	
Anthracene	mg/kg	< 0.1		0.1	Pass	
Benz(a)anthracene	mg/kg	< 0.1		0.1	Pass	
Benzo(a)pyrene	mg/kg	< 0.1		0.1	Pass	
Benzo(b)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.1		0.1	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1		0.1	Pass	
Chrysene	mg/kg	< 0.1		0.1	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1		0.1	Pass	
Fluoranthene	mg/kg	< 0.1		0.1	Pass	
Fluorene	mg/kg	< 0.1		0.1	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1		0.1	Pass	
Naphthalene	mg/kg	< 0.1		0.1	Pass	
Phenanthrene	mg/kg	< 0.1		0.1	Pass	
Pyrene	mg/kg	< 0.1		0.1	Pass	
Method Blank						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71						
Arsenic	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.5		0.5	Pass	
Chromium	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Nickel	mg/kg	< 5		5	Pass	
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Mer						
Mercury	mg/kg	< 0.1		0.1	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons USEPA 8270C Polycyclic A		Result 1				
Acenaphthene	%	100		70-130	Pass	
Acenaphthylene	%	103		70-130	Pass	
Anthracene	%	109		70-130	Pass	
Benz(a)anthracene	%	93		70-130	Pass	
Benzo(a)pyrene	%	108		70-130	Pass	
Benzo(b)fluoranthene	%	99		70-130	Pass	
Benzo(g,h,i)perylene	%	108		70-130	Pass	
Benzo(k)fluoranthene	%	103		70-130	Pass	
Chrysene	%	103		70-130	Pass	
Dibenz(a,h)anthracene	%	120		70-130	Pass	
Fluoranthene	%	93		70-130	Pass	
Fluorene	%	105		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	108		70-130	Pass	
Naphthalene	%	100		70-130	Pass	
Phenanthrene	%	107		70-130	Pass	
Pyrene	%	95		70-130	Pass	
LCS - % Recovery						
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71		Result 1				
Arsenic	%	112		80-120	Pass	
Cadmium	%	95		80-120	Pass	
Chromium	%	90		80-120	Pass	
Nickel	%	91		80-120	Pass	
LCS - % Recovery						
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Mer		Result 1				
Mercury	%	103		75-125	Pass	
[Duplicate of 11-FE50221]						
Polycyclic Aromatic Hydrocarbons		Result 1	Result 2	RPD		
Acenaphthene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Acenaphthylene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Benz(a)anthracene	mg/kg	0.2	0.1	6	30%	Pass
Benzo(a)pyrene	mg/kg	0.1	0.1	6	30%	Pass

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Benzo(b)fluoranthene	mg/kg	0.2	0.1	15	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.1	0.2	3	30%	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.1	< 0.1	8	30%	Pass	
Chrysene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Fluoranthene	mg/kg	0.1	0.1	4	30%	Pass	
Fluorene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	2	30%	Pass	
Naphthalene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Phenanthrene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Pyrene	mg/kg	0.1	0.1	2	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	15	9.8	42	30%	Fail	Q15
Cadmium	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	mg/kg	24	22	8	30%	Pass	
Lead	mg/kg	100	130	25	30%	Pass	
Nickel	mg/kg	8.2	5	48	30%	Fail	Q15
Zinc	mg/kg	580	490	15	30%	Pass	
[Duplicate of 11-FE50221]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	< 0.1	< 0.1	19	30%	Pass	
[Duplicate of 11-FE50237]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	7	8	13	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	mg/kg	16	17	7	30%	Pass	
Lead	mg/kg	110	110	7	30%	Pass	
Nickel	mg/kg	< 5	5.9	40	30%	Fail	Q15
Zinc	mg/kg	430	430	1	30%	Pass	
[Duplicate of 11-FE50237]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
[Duplicate of 11-FE50254]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/kg	7.7	7.7	<1	30%	Pass	
Cadmium	mg/kg	< 0.5	< 0.5	46	30%	Fail	Q15
Chromium	mg/kg	8	< 5	100	30%	Fail	Q15
Copper	mg/kg	25	23	6	30%	Pass	
Lead	mg/kg	180	160	13	30%	Pass	
Nickel	mg/kg	7.6	6.1	22	30%	Pass	
Zinc	mg/kg	1600	1300	18	30%	Pass	
[Duplicate of 11-FE50254]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/kg	0.8	0.2	100	30%	Fail	
[Duplicate of 11-FE50255]							
Polycyclic Aromatic Hydrocarbons		Result 1	Result 2	RPD			
Acenaphthene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Acenaphthylene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Benz(a)anthracene	mg/kg	0.2	0.2	3	30%	Pass	
Benzo(a)pyrene	mg/kg	0.2	0.2	4	30%	Pass	
Benzo(b)fluoranthene	mg/kg	0.3	0.2	18	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	0.2	0.2	1	30%	Pass	
Benzo(k)fluoranthene	mg/kg	0.1	0.1	1	30%	Pass	
Chrysene	mg/kg	0.2	0.2	6	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Fluoranthene	mg/kg	0.3	0.2	15	30%	Pass	
Fluorene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	0.2	4	30%	Pass	
Naphthalene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Phenanthrene	mg/kg	0.1	0.1	1	30%	Pass	
Pyrene	mg/kg	0.2	0.2	11	30%	Pass	
[Spike of 11-FE50221] - % Recovery							

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Polycyclic Aromatic Hydrocarbons		Result 1					
Acenaphthene	%	121			70 - 130	Pass	
Acenaphthylene	%	122			70 - 130	Pass	
Anthracene	%	117			70 - 130	Pass	
Benz(a)anthracene	%	116			70 - 130	Pass	
Benzo(a)pyrene	%	115			70 - 130	Pass	
Benzo(b)fluoranthene	%	119			70 - 130	Pass	
Benzo(g,h,i)perylene	%	98			70 - 130	Pass	
Benzo(k)fluoranthene	%	107			70 - 130	Pass	
Chrysene	%	123			70 - 130	Pass	
Dibenz(a,h)anthracene	%	97			70 - 130	Pass	
Fluoranthene	%	113			70 - 130	Pass	
Fluorene	%	125			70 - 130	Pass	
Indeno(1,2,3-cd)pyrene	%	95			70 - 130	Pass	
Naphthalene	%	114			70 - 130	Pass	
Phenanthrene	%	119			70 - 130	Pass	
Pyrene	%	114			70 - 130	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals (7)		Result 1					
Arsenic	%	82			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	82			75 - 125	Pass	
Copper	%	102			75 - 125	Pass	
Lead	%	80			75 - 125	Pass	
Nickel	%	75			75 - 125	Pass	
[Spike of 11-FE50221] - % Recovery							
Heavy Metals		Result 1					
Mercury	%	90			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant in
NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Attachment E

Published on DES Disclosure Log
RTI Act 2009

Brisbane City Council- City Design (BI)
GPO Box 2567
Brisbane
QLD 4001

Attention: Carl Douthwaite

Report

Client Reference
Received Date

288922-S
Howard Smith Wharf Disposal Permit - ASLP
Feb 01, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 1261

The tests covered by this document have been performed in accordance with NATA and ISO/IEC 17025 and are traceable to national standards of measurement.
This document shall not be reproduced, except in full.

Client Sample ID			HSW1-26	HSW27-32	HSW33-42
Sample Matrix			ASLP - pH 5.0	ASLP - pH 5.0	ASLP - pH 5.0
mgt-LabMark Sample No.			11-FE50481	11-FE50482	11-FE50483
Date Sampled			Jan 27, 2011	Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit			
% Moisture	0.1	%	20	5.8	17
Heavy Metals (7)					
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01
Copper	0.01	mg/L	0.01	0.02	0.01
Lead	0.01	mg/L	0.21	0.08	0.16
Nickel	0.01	mg/L	0.01	< 0.01	0.02
Zinc	0.01	mg/L	6.0	2.3	13
Australian Standard Leaching Procedure (ASLP)					
Leachate Fluid		comment	1.0	1.0	1.0
pH (ASLP - off)	0.1	units	5.3	5.2	5.2
pH (Leachate fluid)	0.1	units	5.0	5.0	5.0
Heavy Metals					
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
% Moisture - Method: Method 102 - ANZECC - % Moisture	Oakleigh	Feb 03, 2011	14 Day
Heavy Metals (7) - Method: USEPA 6010B Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 03, 2011	6 Month
Heavy Metals - Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury	Oakleigh	Feb 03, 2011	28 Day

Published on DES Disclosure Log
RTI Act 2009

Company Name: Brisbane City Council- City Design (BI)
Address: GPO Box 2567
Brisbane
QLD 4001

Order No.:
Report #: 288922
Phone: 07 3027 4725
Fax: 07 3334 0071

Received: Feb 1, 2011 12:00
Due: Feb 3, 2011 06:30
Priority: 2 Day
Contact name: Carl Dowthwaite

Client Job No.: Howard Smith Wharf Disposal Permit - ASLP

mgt-LabMark Client Manager: s.73 Irrele

Sample Detail					% Moisture	Mercury	Heavy Metals (7)	Australian Standard Leaching Procedure (ASLP)
Laboratory where analysis is conducted								
Oakleigh Laboratory - NATA Site #1261					X	X	X	X
Thornleigh Laboratory - NATA Site #18217								
Asquith Laboratory - NATA Site #13535								
Clayton Laboratory - NATA Site #1645								
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
HSW1-26	Jan 27, 2011		ASLP - pH 5.0	M11-FE50481	X	X	X	X
HSW27-32	Jan 27, 2011		ASLP - pH 5.0	M11-FE50482	X	X	X	X
HSW33-42	Jan 27, 2011		ASLP - pH 5.0	M11-FE50483	X	X	X	X

mgt-LabMark Internal Quality Control Review General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis.
7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-20%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71 Me							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.01			0.01	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me							
Mercury	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Heavy Metals (7) USEPA 6010B Heavy Metals & USEPA 7470/71		Result 1					
Arsenic	%	97			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	97			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Me		Result 1					
Mercury	%	86			75-125	Pass	
[Duplicate of 11-FE00310 - BATCH]							
Heavy Metals (7)		Result 1	Result 2	RPD			
Arsenic	mg/L	0.024	0.025	6.3	30%	Pass	
Cadmium	mg/L	< 0.01	< 0.01	39	30%	Fail	Q15
Chromium	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	mg/L	0.021	0.021	1.4	30%	Pass	
Lead	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nickel	mg/L	< 0.01	< 0.01	4.9	30%	Pass	
Zinc	mg/L	0.57	0.59	2	30%	Pass	
[Duplicate of 11-FE00903 - BATCH]							
Heavy Metals		Result 1	Result 2	RPD			
Mercury	mg/L	< 0.001	< 0.001	<1	30%	Pass	
[Spike of 11-FE00310 - BATCH] - % Recovery							
Heavy Metals (7)		Result 1					
Arsenic	%	96			75 - 125	Pass	
Cadmium	%	90			75 - 125	Pass	
Chromium	%	94			75 - 125	Pass	
Copper	%	90			75 - 125	Pass	
Lead	%	91			75 - 125	Pass	
Nickel	%	90			75 - 125	Pass	
Zinc	%	98			75 - 125	Pass	
[Spike of 11-FE00903 - BATCH] - % Recovery							
Heavy Metals		Result 1					
Mercury	%	98			70 - 130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By

s.73 Irrelevant information

s.73 Irrelevant in

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Registered Site - Show Site

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

Lot:	2	Plan:	B3333	Category:	PRO	CSR Cont Site ID:	140-37324
Local Authority:	BRISBANE CITY			Entry Date:	06/01/1997		
Site Name:	FUEL STORAGE - HOWARD SMITH WHARF			MR Alter Date:	06/02/1997		
Location Street:	BOUNDARY STREET			Prescribed Purpose	RESULTS ABOVE ENVIRONMENTAL INVESTIGATION THRESHOLD LEVEL		
Location Suburb:	BRISBANE	Post Code:	4000				
Owner Address:	QPM PROPERTY MANAGEMENT						
	C/- THE FINANCIAL CONTROLLER						
	GPO BOX 1462			Contsite File:	901727	Officer:	OCONNOR
	BRISBANE			Current Use:	910	Past Use:	331
	QLD	Post Code:	4001	DNR Parcel Status:	C	Contaminant:	CU, PB, ZN
				Prev Lot No:	2		
				Prev Plan No:	B3333		
				Zoning:	COM	Area:	30691
				UXO Region:		Cont Grid Water:	U

Comments:	REPORT BY GOLDER ASSOCIATES REF: 96638197(C) REVEALED ELEVATED LEVELS OF HEAVY METALS, INCLUDING LEAD LEVELS >1000 MG/KG. MULTIPLE PARCELS ASSOCIATED WITH THIS SITE: LOTS 21-22 RP9614, 2 B3333, 4 RP41821, 2 RP8616 AND 400 SL1404 REFER.-06/01/1997-DOH.//S.14 APPROVAL ISSUED 5/12/96 FOR DISPOSAL OF 2,200 CUBIC METRES OF SOIL CONTAMINATED WITH HEAVY METALS TO
-----------	--

Rec Status:		Deleted Reason:	
Deleted Date:			

Registered Site - Show Site

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Show Docs
<p>Lot: <input type="text" value="2"/> Plan: <input type="text" value="RP8616"/></p> <p>Local Authority: <input type="text" value="BRISBANE CITY"/></p> <p>Site Name: <input type="text" value="HEAVY METALS - HOWARD SMITH WHARF"/></p> <p>Location Street: <input type="text" value="237B BOWEN TCE"/></p> <p>Location Suburb: <input type="text" value="NEW FARM"/> Post Code: <input type="text" value="4005"/></p> <p>Owner Address: <input type="text" value="UNALLOCATED STATE LAND"/></p> <p><input type="text" value="C/- DEPARTMENT OF NATURAL RESOURCES"/></p> <p><input type="text" value="PO BOX 168"/></p> <p><input type="text" value="NORTH QUAY"/></p> <p><input type="text" value=""/> Post Code: <input type="text" value="4000"/></p>	<p>Category: <input type="text" value="PRO"/> CSR Cont Site ID: <input type="text" value="140-37326"/></p> <p>Entry Date: <input type="text" value="06/01/1997"/></p> <p>MR Alter Date: <input type="text" value="03/06/1997"/></p> <p>Prescribed Purpose: <input type="text" value="RESULTS ABOVE ENVIRONMENTAL INVESTIGATION THRESHOLD LEVEL"/></p> <p>Contsite File: <input type="text" value="901727"/> Officer: <input type="text" value="OCONNOR"/></p> <p>Current Use: <input type="text" value="910"/> Past Use: <input type="text" value="331"/></p> <p>DNR Parcel Status: <input type="text" value="C"/> Contaminant: <input type="text" value="CU, PB, ZN"/></p> <p>Prev Lot No: <input type="text" value="2"/></p> <p>Prev Plan No: <input type="text" value="RP8616"/></p> <p>Zoning: <input type="text" value=""/> Area: <input type="text" value="5095"/></p> <p>UXO Region: <input type="text" value=""/> Cont Grid Water: <input type="text" value="U"/></p>	<p>Comments: <input type="text" value="REPORT BY GOLDER ASSOCIATES REF: 96638197(C) REVEALED ELEVATED LEVELS OF HEAVY METALS, INCLUDING LEAD LEVELS >1000 MG/KG. MULTIPLE PARCELS ASSOCIATED WITH THIS SITE: LOTS 21-22 RP9614, 2 B3333, 4 RP41821, 2 RP8616 AND 400 SL1404 REFER. PLEASE NOTE THAT LOT 2 RP8616 IS CURRENT IN CISP, BUT CANNOT BE DISPLAYED IN BLIN. THE DCDB DATA IN MAPINFO DISPLAYS LOT 2"/></p> <p>Rec Status: <input type="text" value=""/> Deleted Reason: <input type="text" value=""/></p> <p>Deleted Date: <input type="text" value=""/></p>				

Registered Site - Show Site

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Show Docs
Lot: <input type="text" value="2"/>	Plan: <input type="text" value="RP44680"/>	Category: <input type="text" value="PRO"/>	CSR Cont Site ID: <input type="text" value="140-37323"/>			
Local Authority: <input type="text" value="BRISBANE CITY"/>	Entry Date: <input type="text" value="06/01/1997"/>	MR Alter Date: <input type="text" value="06/02/1997"/>				
Site Name: <input type="text" value="HEAVY METAL - HOWARD SMITH WHARF"/>	Prescribed Purpose: <input type="text" value="RESULTS ABOVE ENVIRONMENTAL INVESTIGATION THRESHOLD LEVEL"/>					
Location Street: <input type="text" value="BOUNDARY STREET"/>						
Location Suburb: <input type="text" value="BRISBANE"/> Post Code: <input type="text" value="4000"/>						
Owner Address: <input type="text" value="QPM PROPERTY MANAGEMENT"/>						
<input type="text" value="C/- THE FINANCIAL CONTROLLER"/>	Contsite File: <input type="text" value="901727"/>	Officer: <input type="text" value="OCONNOR"/>				
<input type="text" value="GPO BOX 1462"/>	Current Use: <input type="text" value="910"/>	Past Use: <input type="text" value="331"/>				
<input type="text" value="BRISBANE"/>	DNR Parcel Status: <input type="text" value="C"/>	Contaminant: <input type="text" value="CU, PB, ZN"/>				
<input type="text" value="QLD"/> Post Code: <input type="text" value="4001"/>	Prev Lot No: <input type="text" value="2"/>					
	Prev Plan No: <input type="text" value="RP44680"/>					
	Zoning: <input type="text" value="COM"/>	Area: <input type="text" value="30691"/>				
	UXO Region: <input type="text" value=""/>	Cont Grid Water: <input type="text" value="U"/>				
Comments: <input type="text" value=" REPORT BY GOLDER ASSOCIATES REF: 96638197 (C) REVEALED ELEVATED LEVELS OF HEAVY METALS, INCLUDING LEAD LEVELS >1000 MG/KG. MULTIPLE PARCELS ASSOCIATED WITH THIS SITE: LOTS 21-22 RP9614, 2 B3333, 4 RP41821, 2 RP8616 AND 400 SL1404 REFER.-06/01/1997-DOH.//S.14 APPROVAL ISSUED 5/12/96 FOR DISPOSAL OF 2,200 CUBIC METRES OF SOIL CONTAMINATED WITH HEAVY METALS TO"/>						
Rec Status: <input type="text" value=""/>	Deleted Reason: <input type="text" value=""/>					
Deleted Date: <input type="text" value=""/>						

Registered Site - Show Site

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Show Docs
Lot: 4	Plan: RP41821	Category: PRO	CSR Cont Site ID: 140-37322			
Local Authority: BRISBANE CITY	Entry Date: 06/01/1997					
Site Name: HEAVY METAL - HOWARD SMITH WHARF	MR Alter Date: 06/02/1997					
Location Street: 247 BOWEN TERRACE	Prescribed Purpose: RESULTS ABOVE ENVIRONMENTAL INVESTIGATION THRESHOLD LEVEL					
Location Suburb: NEW FARM	Post Code: 4005					
Owner Address: UNALLOCATED STATE LAND	Contsite File: 901727	Officer: OCONNOR				
C/- DEPARTMENT OF NATURAL RESOURCES	Current Use: 910	Past Use: 331				
PO BOX 168	DNR Parcel Status: C	Contaminant: CU, PB, ZN				
NORTH QUAY	Prev Lot No: 4					
QLD	Post Code: 4000	Prev Plan No: RP41821				
	Zoning:	Area: 5095				
	UXO Region:	Cont Grid Water: U				
Comments: REPORT BY GOLDER ASSOCIATES REF: 96638197(C) REVEALED ELEVATED LEVELS OF HEAVY METALS, INCLUDING LEAD LEVELS >1000 MG/KG. MULTIPLE PARCELS ASSOCIATED WITH THIS SITE: LOTS 21-22 RP9614, 2 B3333, 4 RP41821, 2 RP8616 AND 400 SL1404 REFER.-06/01/1997-DOH.//S.14 APPROVAL ISSUED 5/12/96 FOR DISPOSAL OF 2,200 CUBIC METRES OF SOIL CONTAMINATED WITH HEAVY METALS TO						
Rec Status:	Deleted Reason:					
Deleted Date:						

Registered Site - Show Site

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Show Docs
Lot: 22		Plan: RP8614		Category: PRO		
Local Authority: BRISBANE CITY		Entry Date: 06/01/1997		CSR Cont Site ID: 140-37321		
Site Name: HEAVY METAL - HOWARD SMITH WHARF		MR Alter Date: 06/02/1997				
Location Street: 247 BOWEN TERRACE		Prescribed Purpose: RESULTS ABOVE ENVIRONMENTAL INVESTIGATION THRESHOLD LEVEL				
Location Suburb: NEW FARM		Post Code: 4005				
Owner Address: UNALLOCATED STATE LAND		Contsite File: 901727		Officer: OCONNOR		
C/- DEPARTMENT OF NATURAL RESOURCES		Current Use: 910		Past Use: 331		
PO BOX 168		DNR Parcel Status: C		Contaminant: CU, PB, ZN		
NORTH QUAY		Prev Lot No: 22				
QLD		Prev Plan No: RP8614				
Post Code: 4000		Zoning:		Area: 5095		
		UXO Region:		Cont Grid Water: U		
Comments: REPORT BY GOLDER ASSOCIATES REF: 96638197 (C) REVEALED ELEVATED LEVELS OF HEAVY METALS, INCLUDING LEAD LEVELS >1000 MG/KG. MULTIPLE PARCELS ASSOCIATED WITH THIS SITE: LOTS 21-22 RP9614, 2 B3333, 4 RP41821, 2 RP8616 AND 400 SL1404 REFER.-06/01/1997-DOH.//S.14 APPROVAL ISSUED 5/12/96 FOR DISPOSAL OF 2,200 CUBIC METRES OF SOIL CONTAMINATED WITH HEAVY METALS TO						
Rec Status:		Deleted Reason:				
Deleted Date:						

Registered Site - Show Site

[Reg Site](#)
[Comments](#)
[Amend Log](#)
[Categ. Hist](#)
[Hist. Repos](#)
[New Parcels](#)
[Show Docs](#)

[Page 1](#)
[Page 2](#)

Lot: <input type="text" value="2"/>	Plan: <input type="text" value="B3333"/>	Rec Type: <input type="text" value="BP"/>	Id: <input type="text" value="2819"/>
Category: <input type="text" value="HAZARDOUS CONTAMINANT"/>	Region: <input type="text"/>	Hist. Id: <input type="text" value="140-37324"/>	
LGA: <input type="text" value="BRISBANE CITY COUNCIL"/>	AMA/AN: <input type="text"/>		
Site Name: <input type="text" value="FUEL STORAGE - HOWARD SMITH WHARF"/>	Notified By: <input type="text" value="DATA CONV"/>	Notif Rec'd: <input type="text"/>	
Street: <input type="text" value="BOUNDARY STREET"/>	Entry Date: <input type="text" value="27/06/1998"/>	Last Altered Date: <input type="text" value="17/11/2008"/>	
Suburb: <input type="text" value="BRISBANE"/>	Post Code: <input type="text" value="4000"/>		
Owner: <input type="text" value="QPM PROPERTY MANAGEMENT"/>			
Owner Address: <input type="text" value="C/- THE FINANCIAL CONTROLLER"/>			
<input type="text" value="GPO BOX 1462"/>			
<input type="text" value="BRISBANE"/>			
<input type="text" value="QLD"/>			
<input type="text"/>	Post Code: <input type="text" value="4001"/>		
Parcel Status: <input type="text" value="D"/>	Area: <input type="text" value="30691"/>	m ²	
Site Inspection (SMP) Date: <input type="text"/>			
SMP Compliance Y/N: <input type="text"/>			
	File: <input type="text" value="BNE38747"/>	Officer: <input type="text" value="OCONNOR"/>	
	Offsite Disposal Date: <input type="text"/>	IPA Date: <input type="text" value="23/10/2008"/>	
	Ext Ref: <input type="text"/>		
	Haz Cont: <input type="text" value="Please contact this Department for further details."/>		

Edit

Delete

Print

Registered Site - Show Site

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

Page 1 Page 2

Lot:	2	Plan:	RP8616	Rec Type:	BP	Id:	2821
Category:	HAZARDOUS CONTAMINANT			Region:		Hist. Id:	140-37326
LGA:	BRISBANE CITY COUNCIL			AMA/AN:			
Site Name:	HEAVY METALS - HOWARD SMITH WHARF			Notified By:	DATA CONV	Notif Rec'd:	
Street:	237B BOWEN TCE			Entry Date:	27/06/1998	Last Altered Date:	11/11/2011
Suburb:	NEW FARM	Post Code:	4005	50 - HAZARDOUS CONTAMINANT Notifiable Activities: 			
Owner:	UNALLOCATED STATE LAND						
Owner Address:	C/- DEPARTMENT OF NATURAL RESOURCES						
	PO BOX 168			File:	BNE38747	Officer:	OCONNOR
	NORTH QUAY			Offsite Disposal Date:		IPA Date:	
		Post Code:	4000	Ext Ref: 			
Parcel Status:	D	Area:	5095 m ²				
Site Inspection (SMP) Date:				Haz Cont: Please contact this Department for further details.			
SMP Compliance Y/N:							

Edit Delete Print

Registered Site - Show Site

Reg Site	Comments	Amend Log	Categ. Hist	Hist. Repos	New Parcels	Show Docs
Page 1	Page 2					
Lot: 2	Plan: RP44680	Rec Type: BP	Id: 2818			
Category: HAZARDOUS CONTAMINANT		Region:	Hist. Id: 140-37323			
LGA: BRISBANE CITY COUNCIL		AMA/AN:				
Site Name: HEAVY METAL - HOWARD SMITH WHARF		Notified By: DATACONV	Notif Rec'd:			
Street: BOUNDARY STREET		Entry Date: 27/06/1998	Last Altered Date: 16/11/2022			
Suburb: BRISBANE	Post Code: 4000					
Owner: QPM PROPERTY MANAGEMENT						
Owner Address: C/- THE FINANCIAL CONTROLLER						
GPO BOX 1462						
BRISBANE						
QLD						
	Post Code: 4001					
Parcel Status: D	Area: 30691 m ²					
Site Inspection (SMP) Date:						
SMP Compliance Y/N:						
		Notifiable Activities:	50 - HAZARDOUS CONTAMINANT			
		File: 901727	Officer: OCONNOR			
		Offsite Disposal Date:	IPA Date: 23/10/2008			
		Ext Ref:				
		Haz Cont:	various hazardous contaminants			
Edit	Delete	Print				

Registered Site - Show Site

[Reg Site](#) [Comments](#) [Amend Log](#) [Categ. Hist](#) [Hist. Repos](#) [New Parcels](#) [Show Docs](#)[Page 1](#) [Page 2](#)

Lot:	4	Plan:	RP41821	Rec Type:	BP	Id:	2817
Category:	HAZARDOUS CONTAMINANT			Region:		Hist. Id:	140-37322
LGA:	BRISBANE CITY COUNCIL			AMA/AN:			
Site Name:	HEAVY METAL - HOWARD SMITH WHARF			Notified By:	DATA CONV	Notif Rec'd:	
Street:	247 BOWEN TERRACE			Entry Date:	27/06/1998	Last Altered Date:	17/11/2008
Suburb:	NEW FARM	Post Code:	4005	50 - HAZARDOUS CONTAMINANT			
Owner:	UNALLOCATED STATE LAND			Notifiable Activities:			
Owner Address:	C/- DEPARTMENT OF NATURAL RESOURCES			File:	BNE38747	Officer:	OCONNOR
	PO BOX 168			Offsite Disposal Date:		IPA Date:	23/10/2008
	NORTH QUAY						
	QLD						
		Post Code:	4000				
Parcel Status:	D	Area:	5095 m ²				
Site Inspection (SMP) Date:				Ext Ref:			
SMP Compliance Y/N:				Haz Cont:	Please contact this Department for further details.		

Edit

Delete

Print

Registered Site - Show Site

[Reg Site](#)
[Comments](#)
[Amend Log](#)
[Categ. Hist](#)
[Hist. Repos](#)
[New Parcels](#)
[Show Docs](#)

[Page 1](#)
[Page 2](#)

Lot: <input type="text" value="22"/>	Plan: <input type="text" value="RP8614"/>	Rec Type: <input type="text" value="BP"/>	Id: <input type="text" value="2816"/>
Category: <input type="text" value="HAZARDOUS CONTAMINANT"/>	Region: <input type="text"/>	Hist. Id: <input type="text" value="140-37321"/>	
LGA: <input type="text" value="BRISBANE CITY COUNCIL"/>	AMA/AN: <input type="text"/>		
Site Name: <input type="text" value="HEAVY METAL - HOWARD SMITH WHARF"/>	Notified By: <input type="text" value="DATA CONV"/>	Notif Rec'd: <input type="text"/>	
Street: <input type="text" value="247 BOWEN TERRACE"/>	Entry Date: <input type="text" value="27/06/1998"/>	Last Altered Date: <input type="text" value="17/11/2008"/>	
Suburb: <input type="text" value="NEW FARM"/>	Post Code: <input type="text" value="4005"/>		
Owner: <input type="text" value="UNALLOCATED STATE LAND"/>	<input type="text" value="50 - HAZARDOUS CONTAMINANT"/>		
Owner Address: <input type="text" value="C/- DEPARTMENT OF NATURAL RESOURCES"/>	Notifiable Activities: <input type="text"/>		
<input type="text" value="PO BOX 168"/>	<input type="text"/>		
<input type="text" value="NORTH QUAY"/>	File: <input type="text" value="BNE38747"/>	Officer: <input type="text" value="OCONNOR"/>	
<input type="text" value="QLD"/>	Offsite Disposal Date: <input type="text"/>	IPA Date: <input type="text" value="23/10/2008"/>	
<input type="text"/>	Post Code: <input type="text" value="4000"/>		
Parcel Status: <input type="text" value="D"/>	Area: <input type="text" value="5095"/>	m ²	
Site Inspection (SMP) Date: <input type="text"/>	Ext Ref: <input type="text"/>		
SMP Compliance Y/N: <input type="text"/>	Haz Cont: <input type="text" value="Please contact this Department for further details."/>		

Edit

Delete

Print

An application has been received and requires assessment.

General Application Details	
Client Name:	John Holland Queensland Pty Ltd
Lot/Plan:	4 SP128032
Project reference:	193530
Address:	175 Bowen St, Fortitude Valley
Application Type	Soil Disposal Permit
PaLM Contact:	Liz James
Hardcopy sent to:	
Department of Environment and Heritage Protection (EHP)	
Role:	
Jurisdictions:	Contaminated Land
Ecotrack Application No:	558244
Permit reference:	CLEB04734914
Date Properly made/referred:	23/6/14
Project Director:	
DATE DUE:	7/714
APPLICATION	
EMR/CLR ID: 31053	PO return to EMR/CLR Registry for Action:
PRINT COVER SHEET & SAVE EMAIL TO FOLDER^*	Date to EMR/CLR Registry / Admin:
PRINT PART 1 & 2**	Officer initials:
SAVE ALL PARTS TO FOLDER*	RESPONSE
LOCATE/ORDER FILE No:	PRINT COPY OF RESPONSE (STAMP " COPY "), ADD TO FILE
UPDATE EMR (WITH FILE #)	SCAN COPY OF RESPONSE, SAVE TO FILE
UPDATE ECOTRACK (WITH FILE #)	EMAIL (if Email address provided on application) PERMIT TO CLIENT
UPDATE WLCA Register and/or EMR/CLR Register	UPDATE EMR WITH DATE & SUMMARY OF RESPONSE
UPDATE CARMS (FILE LOCATION TO PO)	UPDATE ECOTRACK (Decision, Permit Eff. Date, Officer Responsible, Delegate and File ref. no.)
FORWARD FILE TO OFFICER	UPLOAD RESPONSE (scanned copy) TO ECOTRACK
Officer: HB KC SD BG AJ SC	UPDATE WLCA Register and/or EMR/CLR Register
IR DUE DATE: XXXX	UPDATE CARMS FILE LOCATION
	DATE CLOSED:

^Print to the 'Bypass Tray' onto yellow paper

***Save to: "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year and month as "Ecotrack Permit Reference #"**

****Print only when hard copy is not received to WLCA or EMR/CLR Registry**

Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of a decision for your application for a soil disposal permit, and your review and appeal rights.

Our Reference: 193530

John Holland Queensland Pty Ltd

PO Box 556

Fortitude Valley QLD

Attn: [s.73 Irrelevant info], Principal Contact

Email: [s.73 Irrelevant info]@jhg.com.au

Re: Application to remove and dispose of contaminated soil from 175 Bowen Street, Fortitude Valley (Lot 4 on SP128032)

Decision

The administering authority has considered your application received on the 23 June 2014 and has decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision whether to grant or refuse the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal, treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

Information considered by the administering authority in making its determination

Information provided in the application submitted by John Holland Queensland Pty Ltd on 23 June 2014 including:

- Part A and B application forms.
- Analytical Results
- Justification that removal to the landfill is an acceptable outcome
- Acceptance Letter dated 23 June 2014 provided by Transpacific stating they are willing to accept approximately 100m³ of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to Single Lined Cell 5 located at Chum Street, New Chum (Lots 268 & 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act in accordance with section 521 of the EP Act the application must be:

1. Made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application;
2. Made to the administering authority in the approved form 'Application for internal review of an original decision' (EM219), which is available www.ehp.qld.gov.au using the publication number EM219 as a search term. The completed form must be sent to the address on the form; and
3. be supported by enough information to enable the authority to decide the application.

For more information see the [Information sheet: Internal review and appeal to Planning and Environment Court](#).

An application to review a decision does not stay the original decision. If you apply for an internal review of this decision you can also apply to the chief executive (using the same form) or the Queensland Civil and Administrative Tribunal (using form 44: Application to stay a decision, available at www.qcat.qld.gov.au for a stay of the original decision.

Sections 519-522 of the *Environmental Protection Act 1994* cover the internal review process.

Sections 531-539 of the *Environmental Protection Act 1994* cover the appeal to Court process.

Should you have any questions in relation to this matter, please contact Waste and Contamination Assessment at WLCA@ehp.qld.gov.au

Notice of decision to grant a soil disposal permit with conditions

	S.73 Irrelevant informa	
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Signature

26/6/14

Date

Enquiries:

Ben Willey – (07) 3181 2429

Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection

Level 9, 400 George Street

GPO Box 2454

Brisbane QLD 4001

Phone 13 QGOV (13 74 68)

Email ben.willey@ehp.qld.gov.au

Allen Johns

Delegate of the administering authority

Environmental Protection Act 1994

Published on DES Disc
RTI Act 2009

Extracts from the *Environmental Protection Act 1994* regarding reviews and appeals**Procedure for review****s. 521**

1. A dissatisfied person may apply for a review of an original decision.
2. The application must—
 - a) be made in the approved form to the administering authority within—
 - I. 14 days after the day on which the person receives notice of the original decision or the administering authority is taken to have made the decision (the "review date"); or
 - II. the longer period the authority in special circumstances allows not later than the review date; and
 - b) be supported by enough information to enable the authority to decide the application.
3. On or before making the application, the applicant must send the following documents to the other persons who were given notice of the original decision—
 - a) notice of the application (the "review notice");
 - b) a copy of the application and supporting documents.
4. The review notice must inform the recipient that submission on the application may be made to the administering authority within seven days after the application is made to the authority.
5. If the administering authority is satisfied the applicant has complied with subsection (2) and (3), the authority must, within 14 days after receiving the application—
 - a) review the original decision;
 - b) consider any submissions properly made by a recipient of the review notice; and
 - c) make a decision (the "review decision") to—
 - I. confirm or revoke the original decision; or
 - II. vary the original decision in a way the administering authority considers appropriate.
6. The application does not stay the original decision.
7. The application must not be dealt with by—
 - a) the person who made the original decision; or
 - b) a person in a less senior office than the person who made the original decision.
8. Within 14 days after making the decision, the administering authority must give written notice of the decision to the applicant and persons who were given notice of the original decision.
9. The notice must—
 - a) include the reasons for the review decision; and
 - b) inform the person of their right of appeal against the decision.

Notice of decision to grant a soil disposal permit with conditions

10. If the administering authority does not comply with subsections (5) or (8), the authority is taken to have made a decision confirming the original decision.
11. Subsection (7) applies despite section *Acts Interpretation Act 1954*, section 27A.
12. This section does not apply to an original decision made by—
 - a) for a matter, the administration and enforcement of which has been devolved to a local government, the local government itself or the chief executive officer of the local government personally; or
 - b) for another matter—the chief executive personally.

Stay of operation of original decisions**s. 522**

1. If an application is made for review of an original decision, the applicant may immediately apply for a stay of the decision to—
 - a) for an original decision mentioned in schedule 1, part 1 - the tribunal; or
 - b) for an original decision mentioned in schedule 1, part 2 - the Court.
2. The tribunal or Court may stay the decision to secure the effectiveness of the review and any later appeal to the tribunal or Court.
3. A stay may be given on conditions the tribunal or the Court considers appropriate and has effect for the period stated by the tribunal or Court.
4. The period of a stay must not extend past the time when the administering authority reviews the decision and any later period the tribunal or the Court allows the applicant to appeal against the review decision.

Who may appeal**s. 531**

1. A dissatisfied person who is dissatisfied with a review decision, other than a review decision to which subdivision 1 applies, may appeal against the decision to the Court.
2. The chief executive may appeal against another administering authority's decision (whether an original or review decision) to the Court.
3. A dissatisfied person who is dissatisfied with an original decision to which section 202 does not apply may appeal against the decision to the Court.

SOIL DISPOSAL PERMIT
Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB04734914

Commencement date: 25 June 2014

Expiry Date: 25 June 2015

Permit holder: John Holland Queensland Pty Ltd

Authorised activity: Removal and disposal of approximately 100m³ of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to Single Lined Cell 5 located at Chum Street, New Chum (Lots 268 & 227 on SP103913).

Maximum volume: 100m³

This disposal permit is subject to the attached conditions in Schedule A.

The administering authority provides further information about the removal treatment and disposal of contaminated soil under section 424 of the EP Act on the EHP website at www.ehp.qld.gov.au. This document must be read in conjunction with any permit conditions found in Schedule A.

	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto; background-color: #cccccc; display: flex; align-items: center; justify-content: center;"><small>s.73 Irrelevant informat</small></div>	
Signature		

<div style="font-size: 2em; font-family: cursive;">26/6/14</div>
Date

Enquiries:

Ben Willey – (07) 3181 2429

Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection
Level 9, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)

Email ben.willey@ehp.qld.gov.au

Allen Johns
Delegate of the administering authority
Environmental Protection Act 1994

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be made available to the administering authority on request. The information to be kept in the records must include:
 - a. the quantity of material disposed; and
 - b. acceptance receipts from the waste disposal/treatment facility.
2. The permit holder must provide a copy of the permit to any person acting under the permit.
3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.
4. The contaminated soil to be removed and disposed of must conform to the contaminate types and limits stipulated in the letter of acceptance and its attachment.

Published on DES Disclosure Log
RTI Act 2009

Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of a decision for your application for a soil disposal permit, and your review and appeal rights.

Our Reference: 193530

John Holland Queensland Pty Ltd

PO Box 556

Fortitude Valley QLD

Attn: s.73 Irrelevant information Principal Contact

Email: s.73 Irrelevant information jhg.com.au

Re: Application to remove and dispose of contaminated soil from 175 Bowen Street, Fortitude Valley (Lot 4 on SP128032)

Decision

The administering authority has considered your application received on the 23 June 2014 and has decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision whether to grant or refuse the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal, treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

Information considered by the administering authority in making its determination

Information provided in the application submitted by John Holland Queensland Pty Ltd on 23 June 2014 including:

- Part A and B application forms.
- Analytical Results
- Justification that removal to the landfill is an acceptable outcome
- Acceptance Letter dated 23 June 2014 provided by Transpacific stating they are willing to accept approximately 100m³ of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to Single Lined Cell 5 located at Chum Street, New Chum (Lots 268 & 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act in accordance with section 521 of the EP Act the application must be:

1. Made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application;
2. Made to the administering authority in the approved form 'Application for internal review of an original decision' (EM219), which is available www.ehp.qld.gov.au using the publication number EM219 as a search term. The completed form must be sent to the address on the form; and
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For more information see the [Information sheet: Internal review and appeal to Planning and Environment Court](#).

An application to review a decision does not stay the original decision. If you apply for an internal review of this decision you can also apply to the chief executive (using the same form) or the Queensland Civil and Administrative Tribunal (using form 44: Application to stay a decision, available at www.qcat.qld.gov.au for a stay of the original decision.

Sections 519-522 of the *Environmental Protection Act 1994* cover the internal review process.

Sections 531-539 of the *Environmental Protection Act 1994* cover the appeal to Court process.

Should you have any questions in relation to this matter, please contact Waste and Contamination Assessment at WLCA@ehp.qld.gov.au

Notice of decision to grant a soil disposal permit with conditions

Signature

Date

Allen Johns
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:

Ben Willey – (07) 3181 2429
Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection
Level 9, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)
Email ben.willey@ehp.qld.gov.au

Published on DES Disclosure
RTI Act 2009

Extracts from the *Environmental Protection Act 1994* regarding reviews and appeals**Procedure for review****s. 521**

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 - b) be supported by enough information to enable the authority to decide the application.
3. On or before making the application, the applicant must send the following documents to the other persons who were given notice of the original decision—
 - a) notice of the application (the "review notice");
 - b) a copy of the application and supporting documents.
4. The review notice must inform the recipient that submission on the application may be made to the administering authority within seven days after the application is made to the authority.
5. If the administering authority is satisfied the applicant has complied with subsection (2) and (3), the authority must, within 14 days after receiving the application—
 - a) review the original decision;
 - b) consider any submissions properly made by a recipient of the review notice; and
 - c) make a decision (the "review decision") to—
 - I. confirm or revoke the original decision; or
 - II. vary the original decision in a way the administering authority considers appropriate.
6. The application does not stay the original decision.
7. The application must not be dealt with by—
 - a) the person who made the original decision; or
 - b) a person in a less senior office than the person who made the original decision.
8. Within 14 days after making the decision, the administering authority must give written notice of the decision to the applicant and persons who were given notice of the original decision.
9. The notice must—
 - a) include the reasons for the review decision; and
 - b) inform the person of their right of appeal against the decision.
10. If the administering authority does not comply with subsections (5) or (8), the authority is taken to have made a decision confirming the original decision.

Notice of decision to grant a soil disposal permit with conditions

11. Subsection (7) applies despite section *Acts Interpretation Act 1954*, section 27A.
12. This section does not apply to an original decision made by—
 - a) for a matter, the administration and enforcement of which has been devolved to a local government, the local government itself or the chief executive officer of the local government personally; or
 - b) for another matter-the chief executive personally.

Stay of operation of original decisions

s. 522

1. If an application is made for review of an original decision, the applicant may immediately apply for a stay of the decision to—
 - a) for an original decision mentioned in schedule 1, part 1 - the tribunal; or
 - b) for an original decision mentioned in schedule 1, part 2 - the Court.
2. The tribunal or Court may stay the decision to secure the effectiveness of the review and any later appeal to the tribunal or Court.
3. A stay may be given on conditions the tribunal or the Court considers appropriate and has effect for the period stated by the tribunal or Court.
4. The period of a stay must not extend past the time when the administering authority reviews the decision and any later period the tribunal or the Court allows the applicant to appeal against the review decision.

Who may appeal

s. 531

1. A dissatisfied person who is dissatisfied with a review decision, other than a review decision to which subdivision 1 applies, may appeal against the decision to the Court.
2. The chief executive may appeal against another administering authority's decision (whether an original or review decision) to the Court.
3. A dissatisfied person who is dissatisfied with an original decision to which section 202 does not apply may appeal against the decision to the Court.

SOIL DISPOSAL PERMIT
Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB04734914

Commencement date: 25 June 2014

Expiry Date: 25 June 2015

Permit holder: John Holland Queensland Pty Ltd

Authorised activity: Removal and disposal of approximately 100m³ of contaminated soil from 175 Bowen Terrace, Fortitude Valley (Lot 4 on SP128032) to Single Lined Cell 5 located at Chum Street, New Chum (Lots 268 & 227 on SP103913).

Maximum volume: 100m³

This disposal permit is subject to the attached conditions in Schedule A.

The administering authority provides further information about the removal treatment and disposal of contaminated soil under section 424 of the EP Act on the EHP website at www.ehp.qld.gov.au. This document must be read in conjunction with any permit conditions found in Schedule A.

Signature

Date

Allen Johns
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:

Ben Willey – (07) 3181 2429

Waste and Land Contamination Assessments
Department of Environment and Heritage
Protection
Level 9, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)

Email ben.willey@ehp.qld.gov.au

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be made available to the administering authority on request. The information to be kept in the records must include:
 - a. the quantity of material disposed; and
 - b. acceptance receipts from the waste disposal/treatment facility.
2. The permit holder must provide a copy of the permit to any person acting under the permit.
3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.
4. The contaminated soil to be removed and disposed of must conform to the contaminate types and limits stipulated in the letter of acceptance and its attachment.

Published on DES Disclosure Log
RTI Act 2009

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

Transaction ID: 50369978 EMR Site Id: 31053 07 April 2017
This response relates to a search request received for the site:
Lot: 4 Plan: SP128032

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	
21	RP8614	EMR
2	B3333	EMR
4	RP41821	EMR
22	RP8614	EMR
2	RP44680	EMR
2	RP8616	EMR

ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated. The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if EHP has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if EHP has not been notified

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

Administering Authority



Report Review Howard Smith Wharf

May 2008

Prepared on behalf of:
City Planning - Brisbane City Council

Prepared by:
Environmental Management
Water and Environment Group
Brisbane City Council

City Design

Level 1 South Tower
Green Square
505 St Pauls Terrace
Fortitude Valley QLD 4006

Locked Bag 6996
Albion QLD 4010

Telephone 07 3403 3849
Facsimile 07 3403 0438

*Delivering Innovative Solutions to Create
Sustainable Communities*

Document Control:

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Issue No.	Date of Issue	Amdt	Prepared By (Author/s)		Edited and Proofread By		Reviewed By		Approved for Issue (Project Director)	
			Name	Initial	Name	Initials	Name	Initials	Name	Initials
1	16-3-2008		Greg McPherson		Kate Atkins		Greg McPherson		Michael Lane	
2	26-5-2008		Greg McPherson	s.73 Irrel	Kate Atkins	s.73 Irrelev	Greg McPherson	s.73 Irrelev	Michael Lane	s.73 Irrelevan

Executive Summary

In order to assist in the preliminary application for a material change of use for the Howard Smith Wharf Site, City Design - Environmental Management (CDEM) was commissioned by City Planning to undertake a review of previous contamination assessment reports and to prepare a submission to the EPA (including Draft Site Management Plans (SMPs) if required).

The specific scope undertaken by CDEM and described in this report included:

- Review of available information pertaining to the site including EPA File No 901727 and previous contamination assessment (Howard Smith Wharf, Fortitude Valley Site Contamination Assessment Draft Report March 1999);
- Provision of recommendations including an application to the EPA to remove the site from the EMR if the results of the review warrant this action; and
- Development of appropriate Site Management Plans (SMPs) in the event that the lots are not removed from the EMR;

The history of the site as reported by City Design Geotechnical and Environmental Engineering (1999) indicates a range of activities having been historically conducted at the site including:

- General stevedoring;
- Naval ship maintenance, and storage and loading of supplies during wartime;
- As a base for the Water Police and Police Diving Squad;
- As a police impoundment area for stolen cars and as a holding area for property to be used in court cases;
- Government stores for equipment being held for auction;
- Vehicle maintenance and refuelling;
- Storage of low level radioactive waste; and
- Various other small scale maintenance and engineering purposes.

There was no indication from the site history of any specific notifiable activity ever having been conducted at the Howard Smith Wharf site with the exception of the historical presence of an underground fuel storage tank which was reportedly decommissioned and removed from site prior to 1996.

It is further understood from review of the 1999 City Design report and EPA file No 901727 that Queensland Health undertook radiation monitoring in the shed used for storage of low level radioactive waste and found no evidence of radiation levels exceeding National Health and Medical Research Council (NHMRC) guidelines.

During the assessment conducted by City Design –Geotechnical & Environmental Engineering in 1999, a total of 54 boreholes were drilled over the 3.6 hectare area of the Howard Smith Wharf site. A total of 50 soil samples were collected during the assessment with 34 selected samples subsequently dispatched to the laboratory for analysis.

A statistical interpretation of the laboratory results obtained by City Design – Geotechnical and Environmental & Environmental Engineering in 1999 was undertaken as part of the review conducted by CDEM.

On the basis of the review of the available information CDEM concludes the following:

- No specific notifiable activities are known to have occurred at the site with the exception of the historical presence of a single underground fuel storage tank which was reportedly decommissioned and removed from site prior to 1996;
- Significant remediation of the site including the off-site disposal of approximately 2200m³ of Total Petroleum Hydrocarbons (TPH) and heavy metal contaminated soil appears to have been conducted by Golder Associates in late 1996;
- A Site Management Plan was also developed by Golder in 1996. It would appear from correspondence between the DoE and Golder in late 1996 that the SMP was accepted by the DoE;
- The EPA was unable to locate either a copy of the SMP or the Stage II Contamination Assessment report pertaining to the site during a search in late 2007;
- Discreet samples collected by City Design in 1999 returned concentrations for various heavy metal contaminants exceeding environmental investigation levels;
- The 95% upper confidence level (UCL) for the mean concentration for all heavy metals analysed with the exception of zinc were below the EIL;
- The 95% upper confidence level (UCL) for the mean zinc concentration while exceeding the EIL was well below the health based investigation level for standard residential land use;
- While isolated samples returned TPH, Total Polycyclic Aromatic Hydrocarbons (PAH) and benzo(a)pyrene concentrations exceeding guideline values, the sample analysis for these samples was highly targeted and the resulting exceedances obtained are not considered representative of the soil/fill at the site in general;
- Given the shallow depth to bedrock at the site there is little potential for significant volumes of contaminated soil to exist at the site and little potential for contaminants to migrate to depth;
- None of the contamination concentration exceedances reported were sufficiently elevated to raise serious concerns with respect to human health or the environment given the overall exposure potential at the site and given any future land use; and
- The site is therefore considered suitable for any land use subject to implementation of the provisions of the draft SMPs provided in **Attachment D**.

On the basis of this review it is recommended that this report be forwarded to the Director of the Queensland Environmental Protection Agency along with a recommendation that the site (Lot 3 on SP 190810 and Lot 4 on SP 128032) is suitable for any use, subject to implementation of the attached Site Management Plans.

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Appendix B – Summary of Soil Analysis Results and Statistical Analysis

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1.0 Introduction

City Policy and Strategy Division is undertaking a planning study and compiling a preliminary application for a material change in use for the Howard Smith Wharves site at Boundary Street, Brisbane.

The site considered in the planning study/preliminary application includes eight lots (Lots 1 and 2 on RP.64992, Lot 3 on SP 190810 (formerly Lot 3 on SP.128031), Lot 2 on RP.64991, Lots 3 and 4 on RP.64991, Lot 4 on RP.52849 and Lot 4 on SP.128032). Lot 3 on SP.190810 and Lot 4 on SP.128032 are listed on the Environmental Protection Agency's (EPA) Environmental Management Register (EMR) for a notifiable activity (hazardous contaminant site).

In order to assist in the preliminary applications City Design - Environmental Management (CDEM) was commissioned by City Planning to undertake a review of previous contamination assessment reports and to prepare a submission to the EPA (including a Site Management Plan (SMP) if required) for the Howard Smith Wharf site.

The specific scope undertaken by CDEM and described in this report included:

- Review of available information pertaining to the site including the previous contamination assessment (Howard Smith Wharf, Fortitude Valley Site Contamination Assessment Draft Report March 1999);
- Provision of recommendations including an application to the EPA to remove the site from the EMR if the results of the review warrant this action; and
- Development of appropriate Site Management Plans (SMPs) in the event that the lots are not removed from the EMR;

In addition to the above scope a site inspection for the Howard Smith Wharf site was undertaken in order to assess the current state of the site.

2.0 Review of available information

The following reports and information were reviewed as part of the scope of works undertaken by CDEM:

- Howard Smith Wharf, Fortitude Valley Site Contamination Assessment Draft Report, City Design – Geotechnical and Environmental Engineering, March 1999;
- City Design Geotechnical and Environmental Engineering File Number 98-155;
- Brisbane City Council WeBbasx database; and
- EPA File No 901 727.

A copy of the *Howard Smith Wharf, Fortitude Valley Site Contamination Assessment Draft Report*, City Design – Geotechnical and Environmental Engineering, March 1999 is provided in **Appendix A**.

A summary of the information from the above sources and relevant to this review is provided below.

The real property description of the site at the time of the contamination assessment conducted in 1999 consisted of the following lots:

Lot 400 on SL1404;
Lot 2 on RP 40998;
Lot 2 on RP64992;
Lots 1,2,3 and 4 on RP64991;
Lot 6 on RP8569;
Lots 3 and 4 on RP52849;
Lot 4 on RP60570;
Lot 2 on B3333;
Lot 2 on RP44680;
Lots 21 and 22 on RP8614; and
Lot 4 on RP41821.

Of these sites, Lot 400 on SL1404, Lot 2 on RP44680, Lots 21 and 22 on RP8614 and Lot 4 on RP41821 were listed on the EPA's Environmental Management Register (EMR) at the time of the 1999 assessment.

The size of site covered by the 1999 assessment was reported to be approximately 3.6 hectares.

Review of Councils WebBASX/IBimap system confirms that the majority of the site covered by the 1999 contamination assessment was subsequently re-configured to form Lot 3 on SP 128031 and Lot 4 on SP 128032. Lot 3 on SP128031 was again re-configured in January 2008 to form Lot 3 on SP 190810.

Specifically:

- Lot 400 on SL1404 (1,181m²) became part of Lot 3 on SP128031(4,931m²) which was in turn re-configured to form Lot 3 on SP 190810 (4,932m²);

- Lot 2 on RP44680 (5,094 m²), Lot 21 on RP8614 (1,893 m²), Lot 22 on RP8614 (1,539 m²); and Lot 4 on RP41821(1071 m²) became part of Lot 4 on SP 128032 (25,940 m²).

The geology of the site consists of a thin veneer of soil or fill (generally less than 1 metre depth) overlying bedrock.

The history of the site as reported by City Design Geotechnical and Environmental Engineering (1999) indicates a range of activities having been historically conducted at the site including:

- General stevedoring;
- Naval ship maintenance, and storage and loading of supplies during wartime;
- As a base for the Water Police and Police Diving Squad;
- As a police impoundment area for stolen cars and as a holding area for property to be used in court cases;
- Government stores for equipment being held for auction;
- Vehicle maintenance and refuelling;
- Storage of low level radioactive waste; and
- Various other small scale maintenance and engineering purposes.

There is no indication from the site history with respect to any specific notifiable activity ever having been conducted at the Howard Smith Wharf site with the exception of the historical presence of an underground fuel storage tank (UST) which was reportedly decommissioned and removed from site prior to 1996.

It is understood from review of the 1999 City Design report that Queensland Health undertook radiation monitoring in the shed used for storage of low level radioactive waste in 1994 and found no evidence of radiation levels exceeding National Health and Medical Research Council (NHMRC) guidelines.

During the assessment conducted by City Design –Geotechnical & Environmental Engineering in 1999, a total of 54 boreholes were drilled over the 3.6 hectare area of the Howard Smith Wharf site. A total of 50 soil samples were collected during the assessment with 34 selected samples subsequently dispatched to the laboratory for analysis.

2.1 Review of EPA File No 901727

EPA file (Reference No 901 727) was reviewed by CDEM on 19 November 2007.

The information obtained during this review is summarised below:

A letter dated 5 February 1996 from the Environmental Health - Radiation Health branch confirmed that there were no radiation levels exceeding NHMRC guidelines detected at the site.

A letter dated 16 May 1996 from the Department of Public Works and Housing to the Hazardous Waste and Contaminated Sites Section of the Department of Environment (DoE) indicated the following enclosures:

1. An Application for Site Contamination Report;
2. A cheque for \$440.00 being the statutory fee;
3. A site history and Stage II testing proposal by Golder Associates;
4. Extract from the Government Land Register;
5. Real Property descriptions; and
6. Street Map.

A letter dated 18 June 1996 from Gary O'Connor (DoE) to Mr J Furner from the Dept of Public Works and Housing provided recommended/required:

1. *Validation of walls of the former UST excavation;*
2. *Clarification of the use of the large steel mains beneath the sheds; and*
3. *Validation of the soils immediately downslope of the aboveground tank near the water police office.*

The correspondence further indicated that:

"Subject to the above comments the Stage II sampling proposal is acceptable".

A document transmittal dated 12 September 1996 indicated transmittal of a Draft Stage II Contamination Assessment Report and Site Management Plan (Reference 96638197 (c)) from Golder Associates to DoE.

Correspondence dated 19 September 1996 from Gary O'Connor (DoE) to Mr R Morphet from Golder Associates provided "Comments re Draft Site Contamination Assessment and Site Management Plan" including a request for further clarification regarding the zinc clean up criteria proposed for the site by Golder Associates.

Correspondence dated 30 September from Golder to DoE "queried" the risk assessment required by DoE.

A letter dated 8 October 1996 from Gary O'Connor (DoE) to R Morphet (Golder Associates Pty Ltd) provided further clarification regarding the DoE risk assessment requirements.

A document Transmittal dated 20 November 1996 indicated transmittal of Stage II Contamination Assessment Report and Site Management Plan from Golder Associates to DoE.

Correspondence dated 2 December 1996 from Gary O'Connor (DoE) to Golder Associates acknowledged that DoE comments regarding the draft report had been satisfactorily addressed in the final report.

Correspondence from Mr Russel Miller from the Brisbane City Council Hazardous Waste section to Chris McMahon from Golder Associates confirmed acceptance of 2210m³ of heavy metal and Total Petroleum Hydrocarbon (TPH) contaminated soil.

Correspondence dated 5 December 1996 from Gary O'Connor (DoE) to R Morphet (Golder Associates) confirmed DoE approval for off-site disposal of 2,200m³ of contaminated soil.

Note: Only the Laboratory Results Table from the Stage II Contamination Assessment report was found in the EPA file reviewed. Neither the draft or the final Stage II contamination reports or the Site Management Plan referenced in the file were able to be located and a subsequent search by the EPA failed to find copies of these documents. A copy of the Stage I Contamination Assessment report compiled by Golder Associates was contained in the file. A summary of the findings of this report is provided in Section 2.2.1 below.

2.1.1 Review of Stage 1 Contamination Assessment Report

The EPA file contained the following report;

Site Contamination Assessment
Stage 1
Howard Smith Wharf
Fortitude Valley Brisbane
Golder Associates April 1996.

Conclusions contained in this report included the following:

"Four areas of the Howard Smith Wharf Site were identified as potentially contaminated in the site history studies:

- *The location of the former underground fuel tank.*
- *Imported fill near the site entrance.*
- *Fill on the New Farm end of the site.*
- *Wooden structural materials in the former wharf facilities."*

The former underground fuel tank had been found to be decommissioned and removed however 40m³ of hydrocarbon contaminated sand fill remains in the tank pit. Sampling has indicated that contamination in this area is likely to be confined to the tank pit however additional in situ clay material (100mm) will need to be removed in any remedial operations to ensure that only clean materials remain.....

Various contaminated materials were identified at the site. These are summarised as follows:

- *Recently introduced fill (from Transit Centre) near site entrance A lead and zinc "hot spot" of around 300m³ which also contains significant concentrations of dieldrin";*
- *A zinc "hot spot" at the New Farm end which may represent up to 1500m³ of material;*
- *Moderately contaminated ash layer of unknown extent which contains significant lead and zinc concentrations and may represent up to 400m³; and*
- *Possibly 150m³ of broken rock material moderately elevated in zinc."*

Identified options included:

- Leaving material in situ resulting in a "restricted" classification; and
- Remediation to a "former" classification.

Further characterisation was recommended.

The history contained in the Stage 1 report was generally consistent with the history reported by City Design in 1999.

It was noted that the No 5 shed at the site had been occupied by Australian Gypsum Product Pty Ltd, a plaster manufacturer, up to 1944 and Australian Plaster Industries from 1945 until 1972 when the shed was demolished and removed.

The most significant TPH contamination levels reported for the Stage 1 Assessment was 138mg/kg for the C₆-C₁₀ TPH fraction.

Lead concentrations ranging between 532mg/kg and 2430mg/kg were recorded in fill at the site entrance while zinc concentrations of between 430mg/kg and 1370mg/kg were reported for the fill from the Transit Centre.

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3.0 Site Inspection - CDEM

A contaminated land professional from CDEM conducted a site inspection on 11 October 2007.

Photographs taken at the time of the inspection are reproduced in **Appendix C**.

The observations made during this inspection are summarised below:

- The majority of the site is paved with either bitumen or concrete;
- Lot 3 is separated from Lot 4 by the deck width of the story bridge;
- A walkway/cycleway bisects the sites;
- Several buildings are present on the southern side of the walkway/cycle way;
- The building labelled as Building No 4 in the 1999 assessment had been demolished;
- The diesel AST previously identified at the site remained in situ;
- Areas to the north of the walkway were fenced and secured from the remainder of the site;
- There were no obvious signs of any significant contamination at the site observed during the site inspection; and
- There were no notifiable activities observed to be occurring at the site at the time of the inspection.

4.0 Interpretation of Laboratory Results (City Design – Geotechnical and Environmental Engineering, 1999)

4.1 Assessment Guidelines

To assess the significance of the results obtained during environmental investigations, laboratory results for soil testing are commonly compared to criteria developed or applied by regulatory authorities. These criteria are developed through research and represent concentrations of contaminants within the environment that may lead to adverse health or environmental effects.

In the case of soil investigations, The National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM) Urban Ecological Investigation Levels (EILs) have been used in the first instance as the regulatory criteria with the NEPM health based soil investigation levels (HIL) guidelines used where contaminant levels exceed EIL. These criteria specify different exposure settings (ranging from residential to industrial land use) enabling the application of more site-specific criteria to a particular site depending on its land use.

The criteria specified within this assessment have been developed with consideration to Queensland EPA guidelines and the NEPM for Assessment of Site Contamination. These guidelines are subject to change with the further development of the NEPMs and through the updating of scientific knowledge with respect to potential health and environmental risks.

4.2 Statistical Assessment and Discussion

A statistical interpretation of the laboratory results obtained by City Design – Geotechnical and Environmental & Environmental Engineering in 1999 was undertaken as part of the review conducted by CDEM.

A summary of the Soil Analysis Results including mean and standard deviation calculations is provided in **Appendix B**.

The review of the laboratory results indicates the following:

- Various “low level” discreet exceedances of environmental investigation levels (EIL’s) for heavy metals were reported for various samples;
- The 95% upper confidence level (UCL) for the mean concentration for all heavy metals analysed, with the exception of zinc, were below the EIL;
- The 95% UCL for the mean for zinc (364 mg/kg), while exceeding the EIL, is well below the health based threshold for standard residential land use of 7000mg/kg;

- The 95% UCL for TPH (C₁₀-C₁₄ fraction) exceeds the EPA's standard investigation threshold for this TPH fraction of 100 mg/kg. The mean value of the TPH (C₁₀-C₁₄ fraction) concentration is however below the adopted threshold level;
- The 95% UCL for benzo(a)pyrene exceeds the EPA's health based investigation threshold for standard residential land use however the mean value reported for benzo(a)pyrene was below the EPA's health based investigation threshold for standard residential land use;
- Limited targeted analysis was conducted for TPH (10 samples analysed only) and polycyclic aromatic hydrocarbons including benzo(a)pyrene (six samples analysed only). (Only fill samples where ash was noted were analysed for PAH constituents); and
- None of the contamination concentration exceedances reported were sufficiently elevated to raise serious concerns with respect to human health or the environment given the overall exposure potential at the site and given any future land use.

Samples BH1-0.2 and BH22-0.2 which returned concentrations for benzo(a)pyrene of 1.2 mg/kg and 1.9 mg/kg were among 5 fill samples noted to contain ash material. None of the other 50 samples collected were noted to contain any traces of ash. Given the specific targeting of the PAH analysis and the generally low concentrations of PAH and benzo(a) pyrene reported despite this targeting, it is unlikely that the PAH concentrations reported are indicative of any significant risk to human health or the environment given any subsequent land use of the site.

Soil samples selected for TPH analysis were generally targeted on the basis of visual assessment and/or proximity to areas where petroleum products were suspected to have been historically stored. Samples BH51-0.2 and BH52-0.2 which returned concentrations for TPH exceeding EPA guideline values were collected at shallow depth in an area described in the 1999 report as possibly previously housing fuel storage tanks and associated pipework. Samples collected from a further four sampling locations in this vicinity returned concentrations for TPH below EPA guideline values. Sample BH44-0.2 which was collected from adjacent to the diesel AST returned TPH concentrations below EPA guideline values.

Given the time that has elapsed since the City Design 1999 assessment and now, and given that hydrocarbon storage at the site had ceased in about 1999 it is likely that any residual hydrocarbons within shallow soil/fill at the site will have reduced/attenuated on those levels recorded in 1999.

5.0 Conclusions

On the basis of the review of the available information CDEM concludes the following:

- No specific notifiable activities are known to have occurred at the site with the exception of the historical presence of a single underground fuel storage tank which was reportedly decommissioned and removed from site prior to 1996;
- Significant remediation of the site including the off-site disposal of approximately 2200m³ of TPH and heavy metal contaminated soil appears to have been conducted by Golder Associates in late 1996;
- A Site Management Plan (SMP) was also developed by Golder in 1996. It would appear from correspondence between the DoE and Golder in late 1996 that the SMP was accepted by the DoE;
- The EPA was unable to locate either a copy of the SMP or the Stage II Contamination Assessment report pertaining to the site during a search in late 2007;
- Discreet samples collected by City Design in 1999 returned concentrations for various heavy metal contaminants exceeding environmental investigation levels;
- The 95% upper confidence level (UCL) for the mean concentration for all heavy metals analysed with the exception of zinc were below the EIL;
- The 95% upper confidence level (UCL) for the mean zinc concentration while exceeding the EIL was well below the health based investigation level for standard residential land use;
- While isolated samples returned TPH, total PAH and benzo(a)pyrene concentrations exceeding guideline values, the sample analysis for these samples was highly targeted and the resulting exceedances obtained are not considered representative of the soil/fill at the site in general;
- Given the shallow depth to bedrock at the site there is little potential for significant volumes of contaminated soil to exist at the site and little potential for contaminants to migrate to depth;
- None of the contamination concentration exceedances reported were sufficiently elevated to raise serious concerns with respect to human health or the environment given the overall exposure potential at the site and given any future land use; and
- The site is therefore considered suitable for any land use subject to implementation of the provisions of the draft SMPs provided in **Attachment D**.

6.0 Recommendations

On the basis of this review it is recommended that this report be forwarded to the Director of the Queensland Environmental Protection Agency along with a recommendation that the site (Lot 3 on SP 190810 and Lot 4 on SP 128032) is suitable for any use, subject to implementation of the attached Site Management Plans.

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**Appendix A – Site Contamination Assessment Draft
Report- Geotechnical and Environmental
Engineering, March 1999.**

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HOWARD SMITH WHARF, FORTITUDE VALLEY

SITE CONTAMINATION ASSESSMENT

DRAFT REPORT

Distribution:

2 Copies: City Planning

1 Copy: Geotechnical and Environmental Engineering

Reference: 98155(B)

Date Issued: 9 March 1999

EXECUTIVE SUMMARY

City Planning commissioned City Design to complete a site contamination assessment of Howard Smith Wharf at Boundary St, Fortitude Valley.

The purpose of the investigation is to assess the contamination status of the site to provide City Planning with information required as part of the proposed transfer of ownership of the site from State Government to Brisbane City Council. The site contamination assessment is also being prepared for submission, if requested by City Planning, to the Department of Environment and Heritage (DEH), for issuance of a Suitability Statement for the intended future use and/or to identify the remediation/management requirements of the site.

The results of soil sampling and laboratory analysis indicate some low level heavy metals contamination at the site, with two sampling locations exceeding Queensland DEH health-based guidelines for lead. Some low level petroleum hydrocarbon contamination was also found in one area, with two sampling locations exceeding Qld CHEM Unit guidelines for Total Petroleum Hydrocarbons.

The site is considered suitable for high to medium density residential, commercial / industrial or open space / recreational subject to either remediation of contaminated areas or by managing future use of the site under a Site Management Plan.

It is recommended that a Site Management Plan be developed and submitted to DEH for approval prior to commencement of site development works.

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1.0 INTRODUCTION

In December 1998, City Design was commissioned by City Planning to carry out a site contamination assessment of Howard Smith Wharf, under the Story Bridge in Brisbane City.

The assessment was carried out in accordance with the *DEH Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland, May 1998*. The purpose of the assessment is to assess the contamination status of the site to provide City Planning with information required as part of the proposed transfer of ownership of the site from State Government to Brisbane City Council. The site contamination assessment is also being prepared for submission, if requested by City Planning, to the Department of Environment and Heritage (DEH), for issuance of a Suitability Statement for the intended future use and/or to identify the remediation/management requirements of the site.

1.1 Objective and Scope of Work

The objective of the site contamination assessment is to provide City Planning with the necessary information on the contamination status of the site to enable the transfer of property ownership in accordance with statutory and due diligence requirements.

The scope of the work carried out for the site contamination assessment, comprises four stages:

- Stage 1 - Preliminary Site Investigation (Completed)
Includes site description and site history
- Stage 2 - Detailed Site Investigation (Completed)
Includes sampling and testing for contaminants
Defining contaminant boundaries
- Stage 3 - Health and environmental assessment and determination of remediation plan (Future if required)
- Stage 4 - Implementation of agreed remediation plan and validation sampling (Future if required)

2.0 SITE DESCRIPTION

2.1 Property Description

The site is located at Boundary Street, Fortitude Valley under the Story Bridge and comprises the following lots in the Parish of North Brisbane:

Lot 400 on SL1404;
Lot 2 on RP40998;
Lot 2 on RP64992;
Lots 1,2,3 and 4 on RP64991;
Lot 6 on RP8569;
Lots 3 and 4 on RP52849;
Lot 4 on RP60570;
Lot 2 on B3333;
Lot 2 on RP44680;
Lots 21 and 22 on RP8614; and
Lot 4 on RP41821.

The site covers a total area of approximately 3.6 Ha. The actual wharf area is currently zoned "Commercial" with the remainder of the site being zoned "Special Development" under the Brisbane Town Plan.

2.2 Site Layout and Surrounding Land Use

The site currently contains 9 permanent buildings and approximately 10 mobile storage sheds or demountable buildings. Four of the permanent buildings are large wharf storage sheds, with parts of each shed being located on wharf areas which extend out over the Brisbane River. These buildings are constructed of timber, steel, corrugated iron and tin, with raised timber floors. In addition, there are 4 bomb shelters dating back to the Second World War located at the base of the cliffs throughout the site. There are 2 fenced off areas within the site as well as 2 lockable gates (excluding the entrance gate) which enable other sections within the site to be fenced off.

The surrounding land use and owners are:

North : Residential houses and a small park above the cliffs
South : Brisbane River
East : Residential houses above the cliffs
West : Block of residential units, car park, Boundary Street

2.3 Site Operations

The site has been vacant for several months, however it is currently used by the Police as a carpark. Various items of equipment and materials are currently temporarily stored on-site by the State Government.

2.4 Topography and Geology

The site is bounded on the northern side by cliffs, which are understood to have been formed as the result of quarrying operations carried out in the 1930's. The site is flat, and surface runoff drains directly into Brisbane River via a number of drains running under the wharf buildings.

A shallow channel runs between the edge of the concrete hardstand and the base of the cliff, from the western boundary of the site to the bomb shelter located opposite Building No. 3 (refer Figure 1). Surface water has ponded in this channel.

According to regional geology maps (City of Brisbane Geological Map, Sheet 3), the site is located on the boundary of two rock formations. These are the Palaeozoic age Neranleigh-Fernvale Beds (comprising greywacke, siltstone, shale, chert, jasper and basic volcanics) and the Mesozoic age Brisbane Tuff (comprising rhyolitic tuff, conglomerate, breccia and minor sandstone and shale). The interface between these two formations is evident in the cliff face, and was also observed during drilling investigations and sampling undertaken as part of the assessment.

The majority of the site is founded on a rock base overlain by a fill layer, the depth of which was found to vary up to approximately 1m. A large proportion of the fill observed during sampling was consistent with the geological composition of the cliff face described above, indicating that the fill possibly originated as a result of previous quarrying activities on site.

Rapid water infiltration was observed in boreholes during sampling conducted following a period of heavy rainfall, especially in areas located near to the cliff face. This was evidence of runoff flowing from the cliff face through the fill layer towards Brisbane River.

2.5 EPA Contaminated Land Register

EPA have advised that the following lots are currently registered on the Contaminated Land Register, in accordance with Schedule 8.3 of the Environmental Protection Act, 1997, the reason for which being described as "Hazardous Contaminant":-

- Lot 400 on SL1404;
- Lot 2 on RP44680;
- Lots 21 and 22 on RP8614; and
- Lot 4 on RP41821.

3.0 SITE HISTORY AND SITE INSPECTION

3.1 Site History

A site history was established by reviewing information supplied by various personnel who have had previous involvement with or knowledge regarding the site, and aerial photographs of the site dating back to 1964. References to buildings or features of the site in the following site history description can be found on Figure 1.

Review of aerial photographs indicated that:-

1964 - The site and surrounding area was generally as it appears today, however, there appears to be a number of small buildings located in the area at the eastern end of the site now used as the open storage area.

1974 - As above, however, this photo was taken during the Brisbane River Floods and the site appears to be completely inundated by flood waters.

An historical title search for the property was conducted by Brisbane City Legal Practice, Paralegal unit. The history of ownership of the site is quite complex due to the large number of individual lots which comprise the site. However, information received to date indicates that various lots within the site were generally privately owned until around the turn of the century, or in some cases until around the late 1920's. Qld National Bank Limited also owned some portions of the site at the beginning of the century. Brisbane Wharves Limited owned a number of lots for varying periods within 1901 and 1936. The Bureau of Industry also owned some lots from 1936 to 1950. Lots 1-4 of RP64991 were leased to Howard Smith Ltd from 1935 to 1956. The Department of Public Works currently owns the site, owning some lots from as early as 1946.

From the findings of the historical title search and anecdotal evidence from State Government personnel, it appears that the wharves on-site have been in use for the majority of this century. The wharves were used in wartime by the Navy for ship maintenance and storage and loading of supplies. Personal communication with ex-Navy personnel suggests that neither storage nor loading of munitions occurred at the site.

The following lots are identified as Prescribed Purpose Sites on BCC's Bimap system:-

- Lot 2 on B3333;
- Lot 2 on RP44680;
- Lots 21 and 22 on RP8614; and
- Lot 4 on RP41821.

Personal communication with the Contaminated Land Unit within BCC identified previous preliminary site investigation works which have been undertaken. Details of these investigations are unclear, however, it is believed that elevated metals of lead, copper and zinc were identified on some or all of the above lots. The registering of four of the above lots on the EPA Contaminated Land Register (refer Section 2.5) may be linked to the results of these site investigations, however, this is unconfirmed. The following description of site history is discussed on an area-by-area basis.

Personal communication with police personnel from Valley Police indicated that the Water Police and Police Diving Squad used part of the site as a base for their activities for some 20 years before relocating to the mouth of the Brisbane River approximately 3 months ago. Building No. 1 was used for administrative purposes, while Building No. 2 was used for storage purposes. It is possible that drums of oil and / or fuel may have also been stored on-site. General maintenance of police boats occurred while moored in the Brisbane River, and a bunded above-ground diesel tank located adjacent to Building No. 1 was used for police boat refuelling. This tank is still in place.

The fenced off area located opposite the Water Police building was used by Police as an impoundment area for seized and stolen cars, and for property to be used as evidence in court cases.

Building No. 3 was previously used as a general government store for government plant and equipment being held for auction. The State Works Department (now known as Q Build) also used the building for storage of plant, equipment and material such as stone masonry pieces.

Building No. 4 was previously used by multiple government departments as a general storage area. The building is currently approximately 90% vacant, however, is still used as a storage area for obsolete and old medical equipment awaiting transport to other countries. A government garage was also located in the eastern end of Building No. 4. Here servicing and maintenance of government vehicles occurred. Personal communication with State Government personnel indicates that refuelling of vehicles occurred at the garage, however, information regarding the fuel storage tanks is limited. There is a bunded area outside the garage area which possibly held a fuel storage tank and a concrete pad located opposite the garage area may also indicate the previous location of a fuel storage tank or bowzers.

A disused small amenities block containing toilets and showers is located opposite the government garage. This building was not connected to sewer, however, effluent was temporarily stored in holding tanks located outside the block. The effluent was pumped out and tankered off-site on a weekly basis. The amenities block was apparently used mainly by the Police Diving Squad.

An area outside the eastern end of Building No. 4 was used by Q Build for diamond sawing of silica sandstone blocks. A silica sand trap still located on-site was used to collect the effluent generated by the use of water for cooling purposes. This effluent comprised silica dust mixed with water and was temporarily stored in holding tanks located next to the trap. The holding tanks were pumped out and tankered off-site as needed.

A fenced off storage shed located opposite Building No. 4 adjacent to the base of the cliffs, was previously used as a storage area for low level radioactive hospital waste. It is believed that the types of waste stored included such items as hospital gowns and medical equipment used in radioactive procedures such as X-Rays. Storage of this type of waste ceased approximately 10 years ago and is now located near Maleny, north of Brisbane. Personal communication with Bruce Wallace from Queensland Health, indicates that radiation monitoring inside the storage shed was carried out in 1994 by Queensland Health, however, there was no evidence that radiation levels exceeded NHMRC Guidelines.

Building No. 5 was previously used by the Police Diving Squad for storage and general operations such as tank and boat maintenance. It is not known whether any hazardous substances were stored here.

Located east of Building No. 5 and bounded by the cliff and Brisbane River is an open area which is partially unconcreted. This area has been previously used as a general bulk storage area for various government activities and projects. When the quantity of material stored had accumulated sufficiently, government auctions were apparently held to clear the area.

3.2 Site Inspection

From site visits, the following site characteristics have been observed or inferred, based on a visual "walkover" assessment along with discussions with various personnel providing information.

The site has been fully vacated except for some areas where residual storage of some material / rubbish still occurs. It is expected that this material will be gradually removed from site. The site is presently used as a minor carpark by the Police.

Approximately two-thirds of the site is covered by a concrete hardstand which is expected to have prevented the downward migration of contaminants into underlying soils. No significant cracking or failure of the concrete hardstand was observed during the site inspection.

A bunded aboveground diesel storage tank is located next to Building No.1. From site history investigations this was apparently used by Water Police for boat refuelling. Staining of the concrete under the tank was evident. A large drum of waste oil and 2 small drums of oil/fuel were observed outside the bunded area. These drums were slightly leaking.

A number of empty drums were also observed inside the car impoundment area located opposite the Water Police buildings. What appears to be a drum of oil was also present and slightly leaking. A leaking drum of oil was also observed next to the eastern pylon of the Story Bridge. Three leaking drums of oil were also observed adjacent to the cliff opposite Building No.3. The extent of oil contamination on the concrete hardstand in this area is quite significant, and was observed to be draining into the small channel running in between the edge of the hardstand and the cliff base. The oil has ponded in this channel and does not appear to be draining from the channel.

A disused incinerator which appears to have been gas-fired is located next to the diesel tank described above.

Differing portions of each wharf building extend over Brisbane River. Each building is supported on timber pylons, with a raised timber floor, with some areas in Buildings 2 (Water Police) and 4 (government garage) also covered by plywood. These plywood areas appear to be stained by oil, which indicates the servicing and maintenance of engines. Building No.2 also contains a sign on the wall "SUPER ONLY" possibly indicating that drums of fuel were stored here. Signage also indicates that welding took place within this building.

Each wharf building contains some abandoned furniture or fittings, and rubbish. Building No. 4 is still used as a storage area for medical equipment awaiting shipment overseas.

A concrete pad is located at the base of the cliff opposite the area used as a government garage. There appears to have been a trench approximately 0.4m wide dug through the concrete hardstand which may indicate the presence of previous fuel storage tanks and associated pipework. A bunded area was also observed next to the garage area which may have contained an aboveground fuel storage tank.

A dismantled building which appears to be an old storage shed was observed adjacent to the cliff opposite building No. 4. The building was apparently abandoned due to termite damage, which were subsequently treated before dismantling the building.

The store shed located opposite Building No. 4 and adjacent to what appears to what appears to be an old bomb shelter is fenced off and padlocked. This is apparently the store shed used for storage of low level radioactive hospital waste.

The open air storage area located at the south-east of the site is quite overgrown, however, there is a small amount of stone masonry and equipment currently stored there. A number of empty and / or corroded drums were scattered throughout the site, especially in the open air storage area.

4.0 SAMPLING PLAN

Based on the above information a sampling program was developed to access the nature and extent of soil contamination within the site. The sampling program comprised drilling of boreholes and collection of soil samples at 54 locations. The sampling locations were identified on a grid measuring approximately 20m x 20m. A site plan showing the sampling locations is shown on **Figure 2**. Due to various site conditions during sample collection (eg. water inflow, shallow base rock), samples were able to be taken from 41 of the 54 sampling locations. 33 sampling locations were on the concrete hardstand.

The number of sampling locations was determined from AS4482.1-1997 *Guide to the sampling and investigation of potentially contaminated soil*, and site-specific information obtained from site history investigations.

Sampling was undertaken on 27 January 1999, 29 January 1999, and 2 February 1999. Drilling of boreholes and concrete drilling was conducted under supervision by Schneider Drilling Pty Ltd.

Table 1 below describes the lithology, samples taken, and analytes for each sampling location. Selected soil samples were analysed for one or more of the following:

- heavy metals including arsenic, cadmium, chromium, copper, lead, and zinc;
- pH;
- Total Petroleum Hydrocarbons (TPH);
- Benzene, Toluene, Ethyl-benzene, Xylene (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAH); and
- Organochlorine and Organophosphorus Pesticides (OC/OP).

Table 1 Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH1	0.0 – 0.2	0.2	1	(Fill) ash, underlying thin layer of asphalt	1,2,4,5
	0.2-0.9	0.5	2	Weathered Tuff, possible fill sourced on-site, yellow brown	1,2
	0.9			Base rock	
BH2	0.0-0.4	0.3		Weathered Tuff, possible fill sourced on-site, yellowy brown	
	0.4			Base rock	
BH3	0.0-0.2	0.2	3	Weathered Tuff, possible fill sourced on-site, yellowy brown	1,2
	0.2			Base rock	
BH4	0-0.15	0.1	4	(Fill) ash	1,2,4
	0.15			Base rock	

Table 1 (Cont) Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH5	0-0.1	0.1		Weathered Tuff, possible fill sourced on-site, yellowy brown Base rock	
BH6	0.0-0.2 0.2-0.6 0.6	0.2	5	(Fill) gravelly sand, brown (Fill) broken glass Base rock	1,2,5
BH7	0.0-0.9 0.9	0.35 0.5	6	(Fill) sandy clay, some gravel, trace ash and glass, mottled browns Base rock	1,2,3,4
BH8	0.0-0.2 0.2-0.8 0.8	0.2	7	(Fill) gravelly sand, some glass, yellowy light brown Weathered Tuff, possible fill sourced on-site, light brown Base rock	1,2
BH9	0.0-0.2 0.2	0.2		Weathered Tuff, possible fill sourced on-site, light brown Base rock	
BH10	0.0-0.9 0.9	0.5	8	Weathered Tuff, possible fill sourced on-site, light brown Base rock	1,2,3,5
BH11	0.0-0.1 0.1-0.5	 0.2		(Fill) Gravel, up to 30mm diameter Weathered tuff, light brown	
BH12	0.0-0.2 0.2-0.9 0.9	0.2 0.5	9	(Fill) sandy gravel, up to 30mm diameter, grey (Fill) gravelly sand, some clay, light brown Base rock	1,2 Increase in moisture content observed with depth, saturated above base rock
BH13					Inaccessible
BH14	0.0-0.2 0.2	0.2		Concrete (Fill) gravel, well-graded, some sand Base rock	Rapid inflow observed
BH15	0.0-0.2 1.2	0.2	10	Concrete (Fill) sandy clay Base rock	1,2 Further samples unavailable due to saturation
BH16	0.0-0.2 0.8	0.2		Concrete (Fill) clayey sand, some gravel Base rock	Water observed, further samples unavailable due to saturation

Table 1 (Cont) Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH17	0.0-0.2 0.4	0.2	11	Concrete (Fill) gravel, well-graded Base rock	1,2 Inflow observed at 0.2m
BH18					No sample – water at surface
BH19	0.0-0.1 0.1			(Fill) gravel Base rock	No sample (rock fill)
BH20	0.0-0.02 0.02-1.1 1.1	0.2	12	Topsoil, grass Weathered Tuff Base rock	1,2,5 Inflow observed at 0.25m
BH21	0.0-0.6 0.6-0.95 0.95	0.2	13	(Fill) clayey sand, some gravel Extremely weathered phyllite - clay, some gravel, grey Base rock	1,2,3 Inflow observed at 0.3m
BH22	0.0-0.2 0.2-0.5	0.2 0.5	14 15	(Fill) silty sand, ash, slight amount of tar-like material, black (Fill) silty sand, light brown	1,2,3,4 Slightly odourous (diesel) 1,2,3
BH23	0.0-0.2 0.2-0.3 0.3	0.2	16	Concrete (Fill) gravelly clay, grey Weathered phyllite Base rock	1,2,3
BH24	0.0-0.2 0.2-0.4 0.4	0.2		Concrete (Fill) gravelly (well-graded) clay, light brown Weathered phyllite Base rock	
BH25	0.0-0.2 0.2-0.5 0.5-1.3 1.3	0.2 0.5	17	Concrete (Fill) sandy clay, some gravel, brown (Fill) sandy clay, some gravel, brown, mottled orange, grey Weathered phyllite Base rock	1,2
BH26	0.0-0.25 0.25-0.5	0.2		Concrete (Fill) gravelly clay, green grey, mottled orange Weathered phyllite	Saturated at 0.5m

Table 1 (Cont) Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH27	0.0-0.2	0.2	18	Concrete (Fill) gravelly clay, light brown. Mottled orange, grey, dark brown	1,2
	0.2-1.0	0.5		Weathered phyllite, light brown/orange, stiffness increasing with depth	
BH28	0.0-0.1		19	Concrete (Fill) gravel	Water observed directly under concrete 1,2
	0.1-1.0	0.5 1.0		Weathered phyllite – clay, mottled grey, orange, green, stiffness increasing with depth	
BH29	0.0-0.05 0.05			Concrete (Fill) gravel Base rock, some weathering	No sample
BH30	0.0-0.1 0.1			Topsoil, grass Base rock, some weathering	No sample
BH31	0.0			Concrete Base rock under concrete	No sample
BH32	0.0			Concrete Base rock under concrete	No sample
BH33	0.0-0.05 0.05-0.4 0.4	0.2	20	Concrete (Fill) gravel, some clay Weathered phyllite Base rock	1,2
BH34	0.0-0.5 0.5	0.2	21	Concrete Weathered phyllite Base rock	1,2,5
BH35	0.0-0.2 0.2	0.2		Concrete (Fill) gravel, some clay Base rock	
BH36	0.0-0.1	0.1	22	Concrete (Fill) sand, medium to coarse grain, possible bedding sand	1,2,3
	0.1			Base rock	
BH37	0.0-0.1	0.1	23	Concrete Weathered phyllite	1,2
	0.1			Base rock	
BH38	0.0-0.2	0.2		Concrete (Fill) sand, medium to coarse grain, possible bedding sand	Water inflow observed at 0.2m
	0.2			Base rock	

Table 1 (Cont) Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH38A	0.0-0.05 0.05			Concrete (Fill) gravel Base rock	No sample
BH39	0.0-0.1 0.1	0.1	24	Concrete (Fill) sandy gravel Weathered phyllite, stiffness increasing with depth	1,2,3
BH39A	0.0-0.1 0.2			Concrete Weathered phyllite Base rock	No sample
BH40	0.0-0.05 0.05			Concrete (Fill) gravel Base rock	No sample
BH41	0.0-0.05 0.05	0.2	25	Concrete (Fill) gravel Weathered phyllite, stiffness increasing with depth	1,2
BH42	0.0-0.02 0.02			Concrete (Fill) Gravel Weathered phyllite	No sample
BH43	0.0-0.2 0.2-0.9	0.2	26	Concrete (Fill) gravelly clay, light brown, grey, mottled red, dark red Extremely weathered phyllite	1,2,4,5
BH44	0.0-0.5 0.5-1.5	0.2 1.0	27 28	Concrete (Fill) silty sand, some clay, brown (All.) sandy clay, brown, light brown	1,2,3 1,2
BH45				Concrete rubble fill	No sample
BH46	0.0-0.2 0.2-1.5 1.5-	0.2 0.5 1.5	29 30	(Fill) weathered phyllite (All.) sandy clay, brown, moisture increasing with depth Residual clay, green, light brown, mottled grey, dark brown	1,2 1,2
BH47	0.0-0.2 0.2	0.2		Concrete Weathered phyllite Base rock	
BH48	0.0-0.1 0.1-0.2 0.2	0.1	31	Concrete (Fill) sand, medium to coarse grain, possible bedding sand Weathered rock Base rock	1,2

Table 1 (Cont) Sampling Location Descriptions

Sampling Location Number	Depth (m)	Sample Interval (m)	Seq No.	Lithology	Analytical Parameters / Comments
BH49	0.0-0.02 0.02			Concrete (Fill) gravel Base rock	No sample
BH50	0.0-0.2 0.4	0.12	32	Concrete (Fill) sand, medium to coarse grain, possible bedding sand Base rock	1,2 Water inflow observed at 0.2m
BH51	0.0-	0.2	33	Concrete Weathered phyllite, increasing in stiffness with depth	1,2,3
BH52	0.0-0.2 0.2	0.2	34	Ash, some gravel Base rock	1,2,3,4 Water observed, not odourous

Notes: (1) pH
 (2) Heavy metal analysis (As, Cd, Cr, Cu, Pb, Zn)
 (3) TPH/BTEX analysis
 (4) OC/OP Pesticides
 (5) PAH
 (All.) = Alluvium

5.0 LABORATORY ANALYSIS

5.1 Analytical Results

50 soil samples at 41 sampling locations were collected. 34 samples were selected and despatched to laboratory for analysis. Remaining samples were stored under refrigeration at BCC Geotechnical & Environmental Engineering Laboratory. Laboratory analysis was undertaken by BCC Scientific Analytical Services and Australian Laboratory Services.

Soil analytical results have been compared to the environmental and health-based investigation thresholds outlined in the *DEH Draft Guidelines for the Assessment & Management of Contaminated Land in Queensland, May 1998*. The health-based investigation thresholds specified in the guidelines are based upon the proposed end land use of the site. The proposed end land use of the Howard Smith Wharf site has not been finalised, however, it is understood that the site will likely be used for a combination of commercial/industrial and open space recreational uses. For this reason, the conservative values of Category E (Parks, Recreational Open Space) health-based investigation thresholds were considered when discussing the analytical results. Draft guidelines prepared by the Qld CHEM Unit in 1991 provide a guideline for the assessment of hydrocarbon contamination in soil. Where guidelines for certain contaminants are not available, Dutch guidelines which provide intervention levels have been used (*Environmental Quality Objectives in the Netherlands, Ministry of Housing, Spatial Planning and the Environment, 1994*). United States EPA Preliminary Remediation Goals were also used for comparison purposes.

Summary soil analysis results for the site are presented in **Table 2** in **Appendix A**. Concentrations above guideline levels are highlighted in **Table 2**, and **Figure 3** shows these concentrations on a site plan.

Heavy Metals

All samples despatched to the laboratory were analysed for the presence of selected heavy metals. Nine samples had reported concentrations above DEH environmental investigation thresholds for lead, zinc, cadmium and arsenic. The following two samples reported concentrations exceeding health-based investigation thresholds:

- BH10 (0.5m) – lead concentration 710 mg/kg; and
- BH20 (0.2m) – lead concentration 650 mg/kg,

slightly above the health-based investigation threshold for lead - 600 mg/kg.

All other metal results were below the relevant DEH environmental guidelines.

Organochlorine and Organophosphorus Pesticides

Six samples were analysed for organochlorine and organophosphorus pesticides. All pesticide levels were below the limit of reporting specified by the analytical laboratory.

Total Petroleum Hydrocarbons (TPH)

Eleven samples were analysed for TPH. The following two samples reported concentrations exceeding CHEM Unit guidelines:

- BH51 (0.2m) – C₁₀-C₁₄ fraction concentration of 127 mg/kg; and
- BH52 (0.2m) – C₁₀-C₁₄ fraction concentration of 274 mg/kg
C₁₅-C₂₈ fraction concentration of 1830 mg/kg,

above the CHEM Unit guidelines for C₁₀-C₁₄ fraction of 100 mg/kg and C₁₅-C₂₈ fraction of 1000 mg/kg.

Slightly elevated TPH levels were also observed in BH22 (0.2m), however these levels are below health based threshold levels. This result coincided with the observation of hydrocarbon odours in the surface soil at BH22.

BTEX

Eleven samples were analysed for benzene, toluene, ethylbenzene and xylene (BTEX). All samples were below the limit of reporting specified by the analytical laboratory.

Polycyclic Aromatic Hydrocarbons (PAH)

Six samples were analysed for PAH. All samples were below health-based investigation thresholds for benzo(a)pyrene and total PAH.

5.2 Discussion of Results

From the analytical results of the soil samples, low level heavy metal contamination of fill exists in parts of the site. The majority of the contamination reported was in the open storage area located at the south-eastern end of the site. No heavy metal concentrations above investigation thresholds were reported in any of the samples obtained from under the concrete hardstand.

Hydrocarbon concentrations above guideline levels were reported in the samples obtained from the area opposite the government garage. Anecdotal evidence suggests that refuelling of vehicles may have occurred in this area. Low concentrations of hydrocarbons were detected in BH22 at 0.2m, however the sample taken from 0.5m was free from detectable hydrocarbons. BH51, located under the concrete hardstand also contained concentrations above guideline levels. These findings suggests that hydrocarbon contamination is confined to the surface layers, however, may have migrated under the concrete. The depth to base rock in this area was found to vary from 0.2m to approximately 1m.

6.0 QUALITY ASSURANCE / QUALITY CONTROL

6.1 Field Decontamination

In order to reduce the potential for cross contamination between sampling locations, all drilling equipment was washed after completion of sampling at each borehole. Latex gloves were also discarded between each sampling location to reduce potential cross contamination between samples.

6.2 Sampling and Analysis

All soil samples were collected in acid-washed, solvent-rinsed glass bottles supplied by SAS, placed in an esky containing ice immediately upon collection. Samples were stored under refrigeration in BCC Geotechnical & Environmental Engineering Laboratory until delivery to the analytical laboratory.

Laboratory analysis of soil samples was performed by Brisbane Water Scientific Analytical Services (SAS) and Australian Laboratory Services Pty Ltd (ALS). Both laboratories are National Association of Testing Authorities (NATA) accredited to perform the selected analyses. All sample containers and accompanying Chain of Custody records were marked with a unique identifying number. Copies of the Chain of Custody forms are presented in Appendix C.

6.3 Health and Safety

A Health & Safety Plan (HSP) was prepared for use by Geotechnical and Environmental Engineering personnel and contractors, during the site contamination assessment.

The purpose of this document is to inform all parties who will be involved in the site contamination assessment of expected site conditions, potential hazards, personal protective equipment and safety precautions required, decontamination procedures, and the emergency response plan.

7.0 REMEDIATION OPTIONS & RECOMMENDATIONS

It is evident from the soil sampling and laboratory testing detailed in this report that low level contamination by heavy metals and petroleum hydrocarbons is present within the site. As specified in the *DEH Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland*, levels of contaminants above the health investigation levels for the proposed use will require remediation or development of an appropriate plan for managing the contamination. The following options are available for remediation / management of the Howard Smith Wharf site:

1. Do nothing option ie. leave the site in its current state

This option is not recommended as a requirement of the DEH Draft Guidelines is that contamination exceeding health investigation levels be remediated or managed.

2. Removal of contaminated soil for disposal to landfill

This option is not recommended due to the uncertainty of the extent of contamination and the fact that the contaminant levels identified are considered to be acceptable, subject to proper site management (refer Option 4) for the proposed commercial / recreational final land use.

3. Conduct further sampling and laboratory testing

Due to the results obtained from this assessment, this option is not considered necessary.

4. Development and implementation of a site management plan

A site management plan (SMP) is a stand-alone public document which summarises the contamination issues and conditions associated with the use of the site. The objective of a site management plan (SMP) is to manage the chemical contamination on the site in manner which protects human health and the environment and ensures that the site is suitable for the specified use.

This is the recommended option, as development and implementation of an SMP will enable the contamination to remain on-site thus reducing the costs of remediating contaminated areas. Also, as the end land use for the site is not yet finalised, the SMP could be developed in consideration of the most sensitive proposed land uses (Category D – High/Medium Density Residential; Category E – Parks, Recreational Open Space; Category F – Commercial/Industrial Use). The contamination would be managed by a combination of the following:

- The placement and maintenance of a barrier which safely separates users of the site and the contamination as well as minimising surface water infiltration and restricting contaminant migration; and
- The application of procedures in order to control any site excavation and development works.

SMPs are submitted to DEH for approval and recording on the Environmental Management Register.

8.0 REFERENCES

AS4482.1-1997 Guide to the sampling and investigation of potentially contaminated soil

Department of Environment & Heritage, Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland, May 1998

Environmental Quality Objectives in the Netherlands, Ministry of Housing, Spatial Planning and the Environment, 1994

Guidelines for the Assessment of Contaminated Land in Queensland, CHEM Unit, 1992

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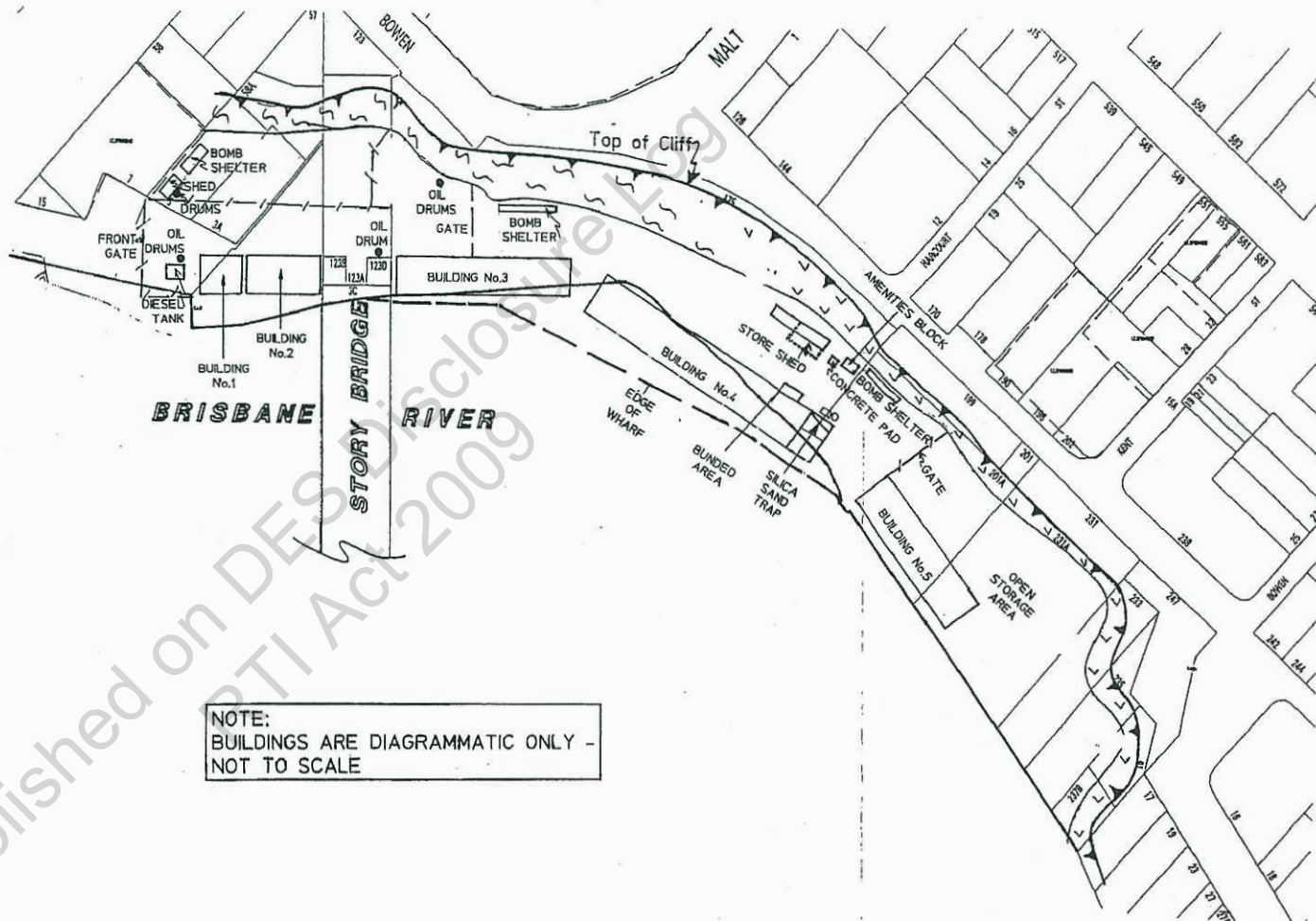


LOCALITY PLAN

SITE

LEGEND

-  BRISBANE TUFF
-  NERANLEIGH-FERVALE BEDS
-  FENCE



NOTE:
BUILDINGS ARE DIAGRAMMATIC ONLY -
NOT TO SCALE

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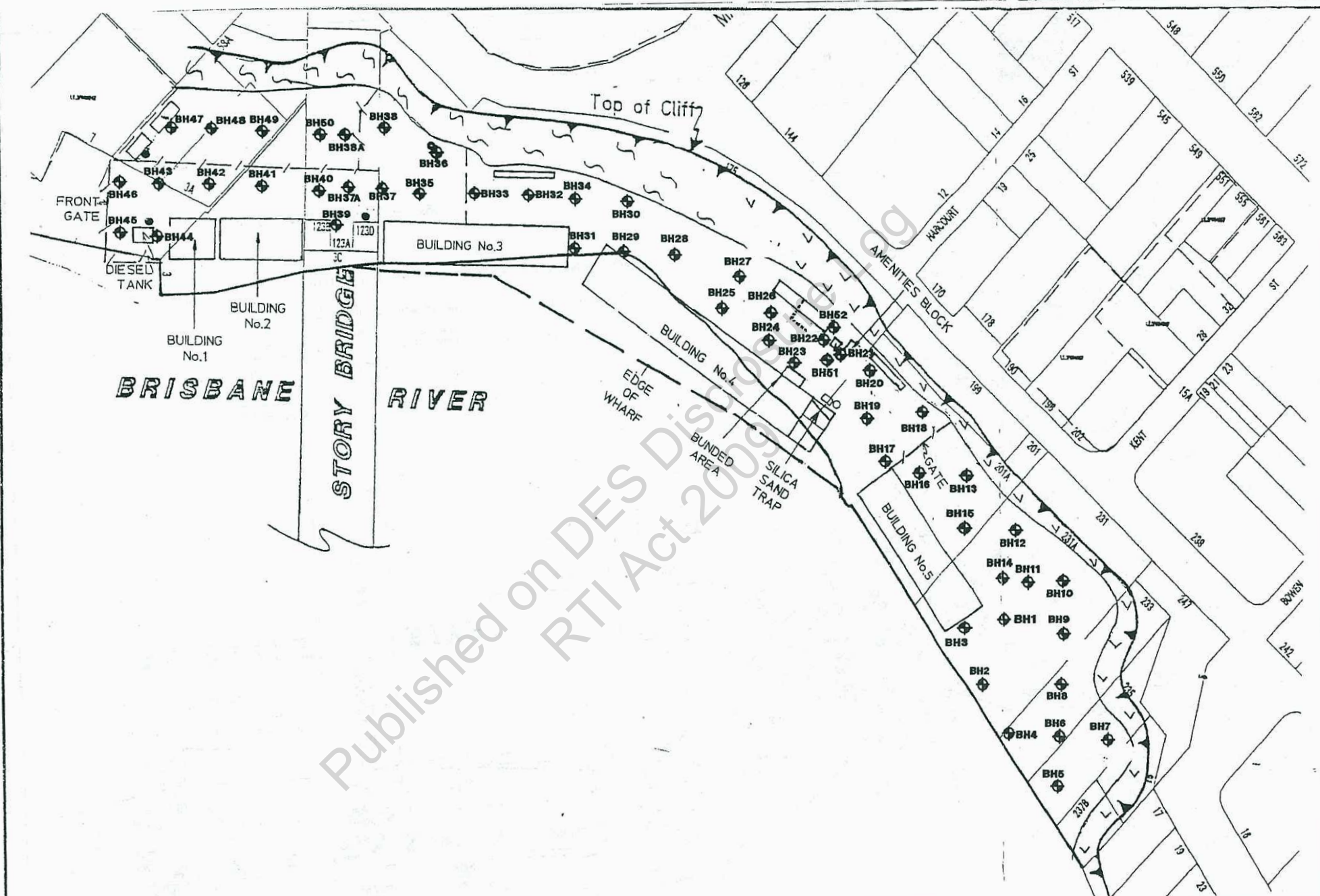
CITY DESIGN
GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
SITE CONTAMINATION ASSESSMENT
HOWARD SMITH WHARF
SITE PLAN



BRISBANE CITY COUNCIL
City Design
 GEOTECHNICAL & ENVIRONMENTAL
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Project No.
98155

Figure No.
1



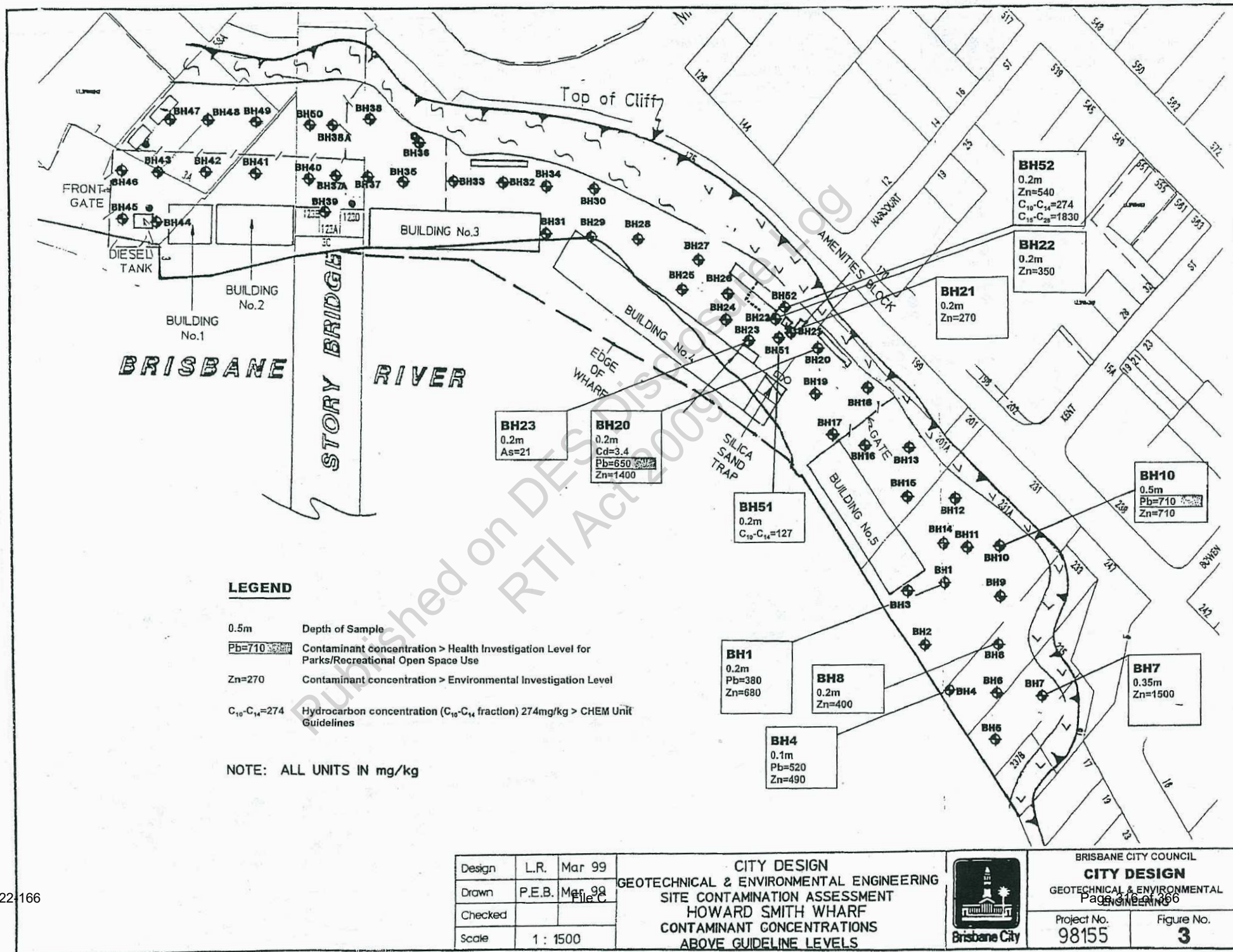
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CITY DESIGN
 GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
 SITE CONTAMINATION ASSESSMENT
 HOWARD SMITH WHARF
 SAMPLING LOCATIONS



BRISBANE CITY COUNCIL	
CITY DESIGN	
GEOTECHNICAL & ENVIRONMENTAL ENGINEERING	
Project No.	Figure No.
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CITY DESIGN
GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
SITE CONTAMINATION ASSESSMENT
HOWARD SMITH WHARF
CONTAMINANT CONCENTRATIONS
ABOVE GUIDELINE LEVELS



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CITY DESIGN
GEOTECHNICAL & ENVIRONMENTAL ENGINEERING
 Project No. 98155
 Figure No. 3

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**APPENDIX A
SUMMARY ANALYTICAL RESULTS**

Table 2 - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	DEH Guidelines			Sample Locations						
Sequence No.			Background	Environmental	Health (E)	1	2	3	4	5	6	7
Borehole No.						BH1	BH1	BH3	BH4	BH6	BH7	BH8
Depth (m)						0.2	0.5	0.2	0.1	0.2	0.35	0.2
Metals												
Arsenic (Tot.) as As	mg/kg	10	0.2-30	20	200	<10	<10	<10	<10	<10	<10	<10
Cadmium (Tot.) as Cd	mg/kg	1	0.04-2	3	40	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
Chromium (Tot.) as Cr	mg/kg	2	0.5-110	50	200	16	3.1	2.3	17	7.3	19	8.5
Copper (Tot.) as Cu	mg/kg	1	1-190	60	2000	84	4.0	6.7	58	11	18	22
Lead (Tot.) as Pb	mg/kg	10	<2-200	300	600	380	53	99	520	38	210	100
Zinc (Tot.) as Zn	mg/kg	5	2-180	200	14000	680	70	120	490	120	1500	400
Percent Moisture	%					[NT]	[NT]	[NT]	[NT]	[NT]	11.8	[NT]
pH 1:5 Extract			6 - 8			7.8	8.1	7.7	7.0	9.4	8.6	8.1

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

E - Parks/Recreational Open Space health based criteria

NT - Not tested

Bold values indicate levels exceeding DEH environmental investigation threshold level

Shaded values indicate levels exceeding DEH health-based investigation threshold level

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	DEH Guidelines			Sample Locations						
Sequence No.			Background	Environmental	Health (E)	8	9	10	11	12	13	14
Borehole No.						BH10	BH12	BH15	BH17	BH20	BH21	BH22
Depth (m)						0.5	0.5	0.2	0.2	0.2	0.2	0.2
Metals												
Arsenic (Tot.) as As	mg/kg	10	0.2-30	20	200	<10	<10	<10	<10	<10	<10	<10
Cadmium (Tot.) as Cd	mg/kg	1	0.04-2	3	40	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0
Chromium (Tot.) as Cr	mg/kg	2	0.5-110	50	200	15	2.8	<2.0	4.4	19	3.3	7.1
Copper (Tot.) as Cu	mg/kg	1	1-190	60	2000	23	3.1	6.1	5.9	35	9.4	29
Lead (Tot.) as Pb	mg/kg	10	<2-200	300	600	710	36	100	48	650	110	130
Zinc (Tot.) as Zn	mg/kg	5	2-180	200	14000	710	71	67	84	1400	270	350
Percent Moisture	%					9.5	[NT]	[NT]	[NT]	[NT]	12.6	11.8
pH 1:5 Extract			6 - 8			8.7	8.1	8.1	8.5	7.3	9.0	8.9

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

E - Parks/Recreational Open Space health based criteria

NT - Not tested

Bold values indicate levels exceeding DEH environmental investigation threshold level

Shaded values indicate levels exceeding DEH health-based investigation threshold level

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	DEH Guidelines			Sample Locations						
Sequence No.			Background	Environmental	Health (E)	15	16	17	18	19	20	21
Borehole No.						BH22	BH23	BH25	BH27	BH28	BH33	BH34
Depth (m)						0.5	0.2	0.2	0.2	0.5	0.2	0.1
Metals												
Arsenic (Tot.) as As	mg/kg	10	0.2-30	20	200	<10	21	<10	<10	<10	<10	<10
Cadmium (Tot.) as Cd	mg/kg	1	0.04-2	3	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium (Tot.) as Cr	mg/kg	2	0.5-110	50	200	<2.0	<2.0	24	3.2	2.8	<2.0	<2.0
Copper (Tot.) as Cu	mg/kg	1	1-190	60	2000	8.7	8.9	2.9	3.1	<1.0	9.9	15
Lead (Tot.) as Pb	mg/kg	10	<2-200	300	600	11	<10	24	12	<10	<10	<10
Zinc (Tot.) as Zn	mg/kg	5	2-180	200	14000	100	77	50	69	37	100	84
Percent Moisture	%					4.6	14.7	[NT]	[NT]	[NT]	[NT]	[NT]
pH 1:5 Extract			6 - 8			9.4	9.3	5.5	8.8	6.2	9.1	9.6

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

E - Parks/Recreational Open Space health based criteria

NT - Not tested

Bold values indicate levels exceeding DEH environmental investigation threshold level

Shaded values indicate levels exceeding DEH health-based investigation threshold level

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	DEH Guidelines			Sample Locations						
Sequence No.			Background	Environmental	Health (E)	22	23	24	25	26	27	28
Borehole No.						BH36	BH37	BH39	BH41	BH43	BH44	BH44
Depth (m)						0.2	0.2	0.1	0.2	0.2	0.2	1.0
Metals												
Arsenic (Tot.) as As	mg/kg	10	0.2-30	20	200	<10	<10	<10	<10	<10	<10	<10
Cadmium (Tot.) as Cd	mg/kg	1	0.04-2	3	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium (Tot.) as Cr	mg/kg	2	0.5-110	50	200	6.6	2.4	5.0	3.0	20	28	40
Copper (Tot.) as Cu	mg/kg	1	1-190	60	2000	5.1	19	12	26	8.5	8.3	9.7
Lead (Tot.) as Pb	mg/kg	10	<2-200	300	600	19	11	31	14	<10	16	<9.9
Zinc (Tot.) as Zn	mg/kg	5	2-180	200	14000	74	110	110	130	39	44	46
Percent Moisture	%					8.3	[NT]	7.6	[NT]	[NT]	12.9	[NT]
pH 1:5 Extract			6 - 8			9.1	9.2	9.8	8.4	8.5	8.2	6.2

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

E - Parks/Recreational Open Space health based criteria

NT - Not tested

Bold values indicate levels exceeding DEH environmental investigation threshold level

Shaded values indicate levels exceeding DEH health-based investigation threshold level

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	DEH Guidelines			Sample Locations					
Sequence No.			Background	Environmental	Health (E)	29	30	31	32	33	34
Borehole No.						BH46	BH46	BH48	BH50	BH51	BH52
Depth (m)						0.2	0.5	0.1	0.2	0.2	0.2
Metals											
Arsenic (Tot.) as As	mg/kg	10	0.2-30	20	200	<10	<10	<10	<10	<10	<10
Cadmium (Tot.) as Cd	mg/kg	1	0.04-2	3	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium (Tot.) as Cr	mg/kg	2	0.5-110	50	200	6.9	28	5.4	7.8	<2.0	19
Copper (Tot.) as Cu	mg/kg	1	1-190	60	2000	13	6.8	12	25	8.0	43
Lead (Tot.) as Pb	mg/kg	10	<2-200	300	600	23	20	11	18	21	180
Zinc (Tot.) as Zn	mg/kg	5	2-180	200	14000	99	56	56	51	94	540
Percent Moisture	%					[NT]	[NT]	[NT]	[NT]	7.3	23.8
pH 1:5 Extract			6 - 8			9.5	6.1	8.5	9.3	9.3	7.3

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

E - Parks/Recreational Open Space health based criteria

NT - Not tested

Bold values indicate levels exceeding DEH environmental investigation threshold level

Shaded values indicate levels exceeding DEH health-based investigation threshold level

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	Guidelines		Sample Locations							
Sequence No.			CHEM Unit	Dutch	6	8	13	14	15	16	22	24
Borehole No.					BH7	BH10	BH21	BH22	BH22	BH23	BH36	BH39
Depth (m)					0.35	0.5	0.2	0.2	0.5	0.2	0.2	0.1
TPH												
C ₆ -C ₉ Fraction	mg/kg	2	100		<2	<2	<2	<2	<2	<2	<2	<2
C ₁₀ - C ₁₄ Fraction	mg/kg	50	100		<50	<50	<50	<50	<50	<50	<50	<50
C ₁₅ - C ₂₈ Fraction	mg/kg	100	1000		<100	<100	<100	240	<100	<100	<100	<100
C ₂₉ - C ₃₆ Fraction	mg/kg	100	1000		<100	<100	<100	<100	<100	<100	<100	<100
Total C ₁₀ - C ₃₆ Fraction				5000				240				
			DEH Environmental									
BTEX												
Benzene	mg/kg	0.2	1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Meta- & para-xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ortho-Xylene	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:

LOR - Limit of Reporting

Bold values indicate levels exceeding CHEM Unit/DEH guidelines

CHEM Unit- Draft guidelines for TPH contamination

DEH - Draft Guidelines investigation thresholds

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	Guidelines		Sample Locations		
Sequence No.			CHEM Unit	Dutch	27	33	34
Borehole No.					BH44	BH51	BH52
Depth (m)					0.2	0.2	0.2
TPH							
C ₆ -C ₉ Fraction	mg/kg	2	100		<2	<2	<2
C ₁₀ - C ₁₄ Fraction	mg/kg	50	100		<50	127	274
C ₁₅ - C ₂₈ Fraction	mg/kg	100	1000		<100	265	1830
C ₂₉ - C ₃₆ Fraction	mg/kg	100	1000		<100	<100	862
Total C ₁₀ - C ₃₆ Fraction				5000		392	2966
			DEH Environmental				
BTEX							
Benzene	mg/kg	0.2	1		<0.2	<0.2	<0.2
Toluene	mg/kg	0.2			<0.2	<0.2	<0.2
Chlorobenzene	mg/kg	0.2			<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	0.2			<0.2	<0.2	<0.2
Meta- & para-xylene	mg/kg	0.2			<0.2	<0.2	<0.2
ortho-Xylene	mg/kg	0.2			<0.2	<0.2	<0.2

Notes:

LOR - Limit of Reporting

Bold values indicate levels exceeding CHEM Unit/DEH guidelines

CHEM Unit- Draft guidelines for TPH contamination

DEH - Draft Guidelines investigation thresholds

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	Guidelines		Sample Locations					
Sequence No.			DEH Health(E)	USEPA	1	5	8	12	21	26
Borehole No.					BH1	BH6	BH10	BH20	BH34	BH43
Depth (m)					0.2	0.2	0.5	0.2	0.2	0.2
Organochlorine Pesticides										
alpha-BHC	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
HCB	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC & gamma-BHC	mg/kg	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	mg/kg	0.05	20		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane - cis	mg/kg	0.05	100	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	mg/kg	0.05	20	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDE	mg/kg	0.05		5.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDD	mg/kg	0.05		7.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT	mg/kg	0.2	400	5.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

USEPA - United States Environmental Protection Agency Region IX Preliminary Remediation Goals (PRGs) for Industrial Land Uses

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	Guidelines		Sample Locations					
Sequence No.			DEH Health(E)	USEPA	1	5	8	12	21	26
Borehole No.					BH1	BH6	BH10	BH20	BH34	BH43
Depth (m)					0.2	0.2	0.5	0.2	0.2	0.2
Organophosphorus Pesticides										
Dichlorvos	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
demeton-s-methyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	mg/kg	0.2			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos E	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos Z	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
fenamiphos	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos-methyl	mg/kg	0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:

LOR - Limit of Reporting

DEH - Draft Guidelines investigation thresholds

USEPA - United States Environmental Protection Agency Region IX Preliminary Remediation Goals (PRGs) for Industrial Land Uses

Table 2 (Cont) - SUMMARY OF LABORATORY ANALYTICAL RESULTS (SOIL)

Analysis	Units	LOR	Guidelines		Sample Locations					
Sequence No.			DEH Health(E)	USEPA	1	4	6	14	26	34
Borehole No.					BH1	BH4	BH7	BH22	BH43	BH52
Depth (m)					0.2	0.2	0.35	0.2	0.2	0.2
PAH Analysis										
Naphthalene	mg/kg	0.5		800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Methylnaphthalene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloronaphthalene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5		360	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5		300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5			1.4	0.5	<0.5	1.5	<0.5	0.7
Anthracene	mg/kg	0.5		19	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
Fluorathene	mg/kg	0.5			2.0	0.9	<0.5	4.1	<0.5	<0.5
Pyrene	mg/kg	0.5		20,000	2.1	0.9	<0.5	4.0	<0.5	<0.5
N-2-Fluorenylacetamide	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5			1.0	0.5	<0.5	2.6	<0.5	<0.5
Chrysene	mg/kg	0.5		24	1.3	1.2	<0.5	2.5	<0.5	<0.5
Benzo(b) & (k)fluoranthene	mg/kg	1		2.6 to 26	2	1	<1	4	<1	<1
7,12-Dimethylbenz(a)anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	mg/kg	0.5	2	0.26	1.2	<0.5	<0.5	1.9	<0.5	<0.5
3-Methylcholanthrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.5			0.6	<0.5	<0.5	1.0	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5		26	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5			0.7	<0.5	<0.5	0.9	<0.5	<0.5
TOTAL PAH	mg/kg		40		12.3	5	0	23.8	0	0.7

Notes:

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DEH - Draft Guidelines investigation thresholds

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APPENDIX B
LABORATORY ANALYTICAL RESULTS

**SCIENTIFIC ANALYTICAL SERVICES LABORATORY****Scientific Analytical Services**
240 Donaldson Road
Rocklea Brisbane Qld 4106Telephone 07 3403 2611
Facsimile 07 3403 2646

A unit of the Brisbane City Council

Attention: s.73 Irrelevant information
Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk
Sampling Date: 02/02/99
Sampled By: Client
Sampling Method: Grab
Sample Matrix: Solid
Batch Number: 99/0833
Registration Date: 4 February 1999
Date of Report: 5 March 1999

Sequence Number	Sample Description
/1	BH1 0.2 M
/2	BH1 0.5 M
/3	BH3 0.2 M
/4	BH4 0.2 M
/5	BH6 0.2 M
/6	BH7 0.35 M
/7	BH8 0.2 M
/8	BH10 0.5 M
/9	BH12 0.5 M
/10	BH15 0.2 M
/11	BH17 0.2 M
/12	BH20 0.2 M
/13	BH21 0.2 M
/14	BH22 0.2 M
/15	BH22 0.5 M
/16	BH23 0.2 M
/17	BH25 0.2 M
/18	BH27 0.2 M
/19	BH28 0.5 M
/20	BH33 0.2 M

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

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Client: City Design, Ground Engineering
Job Name: 88155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Sequence Number	Sample Description
/21	BH34 0.2 M
/22	BH36 0.2 M
/23	BH37 0.2 M
/24	BH39 0.1 M
/25	BH41 0.2 M
/26	BH43 0.2 M
/27	BH44 0.2 M
/28	BH44 1.0 M
/29	BH46 0.2 M
/30	BH46 0.5 M
/31	BH48 0.1 M
/32	BH50 0.2 M
/33	BH51 0.2 M
/34	BH52 0.2 M

TPH/BTEX, PAH's and OC/OP Pesticides analysis performed by ALS EB19245.
This report supersedes any previous report of the same batch number.

Please note that the above results refer only to the samples tested,
and not to the batches from which they were drawn.

Page 2 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/1	/2	/3	/4
5.002	pH 1:5 Extract		7.8	8.1	7.7	7.0
External	Hydrocarbon Banding		[NR]	[NR]	[NR]	[NR]
External	BTEX		[NR]	[NR]	[NR]	[NR]
External	Polyaromatic Hydrocarbons		Complete	[NR]	[NR]	Complete
External	OC/OP Pesticides		Complete	[NR]	[NR]	[NR]
Method	Test	Units	/5	/6	/7	/8
5.002	pH 1:5 Extract		9.4	8.6	8.1	8.7
External	Hydrocarbon Banding		[NR]	Complete	[NR]	Complete
External	BTEX		[NR]	Complete	[NR]	Complete
External	Polyaromatic Hydrocarbons		[NR]	Complete	[NR]	[NR]
External	OC/OP Pesticides		Complete	[NR]	[NR]	Complete
Method	Test	Units	/9	/10	/11	/12
5.002	pH 1:5 Extract		8.1	8.1	8.5	7.3
External	Hydrocarbon Banding		[NR]	[NR]	[NR]	[NR]
External	BTEX		[NR]	[NR]	[NR]	[NR]
External	Polyaromatic Hydrocarbons		[NR]	[NR]	[NR]	[NR]
External	OC/OP Pesticides		[NR]	[NR]	[NR]	Complete
Method	Test	Units	/13	/14	/15	/16
5.002	pH 1:5 Extract		9.0	8.9	9.4	9.3
External	Hydrocarbon Banding		Complete	Complete	Complete	Complete
External	BTEX		Complete	Complete	Complete	Complete
External	Polyaromatic Hydrocarbons		[NR]	Complete	[NR]	[NR]
External	OC/OP Pesticides		[NR]	[NR]	[NR]	[NR]
Method	Test	Units	/17	/18	/19	/20
5.002	pH 1:5 Extract		5.5	8.8	6.2	9.1
External	Hydrocarbon Banding		[NR]	[NR]	[NR]	[NR]
External	BTEX		[NR]	[NR]	[NR]	[NR]
External	Polyaromatic Hydrocarbons		[NR]	[NR]	[NR]	[NR]
External	OC/OP Pesticides		[NR]	[NR]	[NR]	[NR]
Method	Test	Units	/21	/22	/23	/24
5.002	pH 1:5 Extract		9.6	9.1	9.2	9.8
External	Hydrocarbon Banding		[NR]	Complete	[NR]	Complete
External	BTEX		[NR]	Complete	[NR]	Complete
External	Polyaromatic Hydrocarbons		[NR]	[NR]	[NR]	[NR]
External	OC/OP Pesticides		Complete	[NR]	[NR]	[NR]

s.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

Page 3 of 9

Client: City Design, Ground Engineering
Job Name: 08155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/25	/26	/27	/28
5.002	pH 1:5 Extract		8.4	8.5	8.2	6.2
External	Hydrocarbon Banding		[NR]	[NR]	Complete	[NR]
External	BTEX		[NR]	[NR]	Complete	[NR]
External	Polyaromatic Hydrocarbons		[NR]	Complete	[NR]	[NR]
External	OC/OP Pesticides		[NR]	Complete	[NR]	[NR]
Method	Test	Units	/29	/30	/31	/32
5.002	pH 1:5 Extract		9.5	6.1	8.5	9.3
External	Hydrocarbon Banding		[NR]	[NR]	[NR]	[NR]
External	BTEX		[NR]	[NR]	[NR]	[NR]
External	Polyaromatic Hydrocarbons		[NR]	[NR]	[NR]	[NR]
External	OC/OP Pesticides		[NR]	[NR]	[NR]	[NR]
Method	Test	Units	/33	/34		
5.002	pH 1:5 Extract		9.3	7.3		
External	Hydrocarbon Banding		Complete	Complete		
External	BTEX		Complete	Complete		
External	Polyaromatic Hydrocarbons		[NR]	Complete		
External	OC/OP Pesticides		[NR]	[NR]		

s.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the patches from which they were drawn.

Page 4 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/1	/2	/3	/4
5.304	Calcium (Tot.) as Ca	mg/kg	25000	1700	550	3200
5.304	Magnesium (Tot.) as Mg	mg/kg	1100	<200	340	960
5.304	Sodium (Tot.) as Na	mg/kg	470	<400	<400	<400
5.304	Potassium (Tot.) as K	mg/kg	260	320	740	680
5.304	Aluminium (Tot.) as Al	mg/kg	6000	3000	2300	7000
5.304	Barium (Tot.) as Ba	mg/kg	190	41	74	220
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	16	3.1	2.3	17
5.304	Copper (Tot.) as Cu	mg/kg	84	4.0	6.7	58
5.304	Iron (Tot.) as Fe	mg/kg	21000	8100	12000	55000
5.304	Manganese (Tot.) as Mn	mg/kg	290	110	220	550
5.304	Nickel (Tot.) as Ni	mg/kg	14	<2.0	<2.0	13
5.304	Lead (Tot.) as Pb	mg/kg	380	53	99	520
5.304	Zinc (Tot.) as Zn	mg/kg	680	70	120	490
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10
Method	Test	Units	/5	/6	/7	/8
5.304	Calcium (Tot.) as Ca	mg/kg	2800	6900	1900	6500
5.304	Magnesium (Tot.) as Mg	mg/kg	3700	1100	1100	980
5.304	Sodium (Tot.) as Na	mg/kg	<400	<400	<400	<400
5.304	Potassium (Tot.) as K	mg/kg	960	400	900	1200
5.304	Aluminium (Tot.) as Al	mg/kg	6200	6300	6500	11000
5.304	Barium (Tot.) as Ba	mg/kg	63	120	130	270
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	1.3	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	7.3	19	8.5	15
5.304	Copper (Tot.) as Cu	mg/kg	11	18	22	23
5.304	Iron (Tot.) as Fe	mg/kg	16000	17000	22000	26000
5.304	Manganese (Tot.) as Mn	mg/kg	330	480	400	270
5.304	Nickel (Tot.) as Ni	mg/kg	4.3	5.9	4.6	7.4
5.304	Lead (Tot.) as Pb	mg/kg	38	210	100	710
5.304	Zinc (Tot.) as Zn	mg/kg	120	1500	400	710
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10

s.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

Page 5 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/9	/10	/11	/12
5.304	Calcium (Tot.) as Ca	mg/kg	1700	770	1200	1300
5.304	Magnesium (Tot.) as Mg	mg/kg	<200	<200	280	400
5.304	Sodium (Tot.) as Na	mg/kg	<390	<400	<400	<400
5.304	Potassium (Tot.) as K	mg/kg	620	510	1500	1000
5.304	Aluminium (Tot.) as Al	mg/kg	4400	3000	7900	11000
5.304	Barium (Tot.) as Ba	mg/kg	90	110	33	260
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	3.4
5.304	Chromium (Tot.) as Cr	mg/kg	2.8	<2.0	4.4	19
5.304	Copper (Tot.) as Cu	mg/kg	3.1	6.1	5.9	35
5.304	Iron (Tot.) as Fe	mg/kg	13000	16000	15000	15000
5.304	Manganese (Tot.) as Mn	mg/kg	97	550	90	240
5.304	Nickel (Tot.) as Ni	mg/kg	<2.0	<2.0	<2.0	3.8
5.304	Lead (Tot.) as Pb	mg/kg	36	100	48	650
5.304	Zinc (Tot.) as Zn	mg/kg	71	67	84	1400
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10
Method	Test	Units	/13	/14	/15	/16
5.304	Calcium (Tot.) as Ca	mg/kg	3900	3600	590	800
5.304	Magnesium (Tot.) as Mg	mg/kg	1000	690	<200	580
5.304	Sodium (Tot.) as Na	mg/kg	<400	1100	600	<400
5.304	Potassium (Tot.) as K	mg/kg	490	1000	1800	2400
5.304	Aluminium (Tot.) as Al	mg/kg	2600	5300	3000	4200
5.304	Barium (Tot.) as Ba	mg/kg	160	490	210	65
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	3.3	7.1	<2.0	<2.0
5.304	Copper (Tot.) as Cu	mg/kg	9.4	29	8.7	8.9
5.304	Iron (Tot.) as Fe	mg/kg	22000	26000	26000	16000
5.304	Manganese (Tot.) as Mn	mg/kg	670	600	470	510
5.304	Nickel (Tot.) as Ni	mg/kg	3.7	10	5.4	2.9
5.304	Lead (Tot.) as Pb	mg/kg	110	130	11	<10
5.304	Zinc (Tot.) as Zn	mg/kg	270	350	100	77
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	21

S.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

Page 6 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/17	/18	/19	/20
5.304	Calcium (Tot.) as Ca	mg/kg	1100	690	<200	2100
5.304	Magnesium (Tot.) as Mg	mg/kg	2100	420	1100	980
5.304	Sodium (Tot.) as Na	mg/kg	<390	<400	<390	<400
5.304	Potassium (Tot.) as K	mg/kg	1500	1300	3100	<200
5.304	Aluminium (Tot.) as Al	mg/kg	20000	3200	7100	1600
5.304	Barium (Tot.) as Ba	mg/kg	35	75	46	18
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	24	3.2	2.8	<2.0
5.304	Copper (Tot.) as Cu	mg/kg	2.9	3.1	<1.0	9.9
5.304	Iron (Tot.) as Fe	mg/kg	32000	17000	11000	33000
5.304	Manganese (Tot.) as Mn	mg/kg	49	81	28	850
5.304	Nickel (Tot.) as Ni	mg/kg	4.8	2.5	<2.0	15
5.304	Lead (Tot.) as Pb	mg/kg	24	12	<10	<10
5.304	Zinc (Tot.) as Zn	mg/kg	50	69	37	100
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10
Method	Test	Units	/21	/22	/23	/24
5.304	Calcium (Tot.) as Ca	mg/kg	3800	890	1500	1900
5.304	Magnesium (Tot.) as Mg	mg/kg	470	650	520	890
5.304	Sodium (Tot.) as Na	mg/kg	<400	<400	<390	420
5.304	Potassium (Tot.) as K	mg/kg	480	<200	<200	1100
5.304	Aluminium (Tot.) as Al	mg/kg	1300	1500	1200	5100
5.304	Barium (Tot.) as Ba	mg/kg	19	15	28	57
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	<2.0	6.6	2.4	5.0
5.304	Copper (Tot.) as Cu	mg/kg	15	5.1	19	12
5.304	Iron (Tot.) as Fe	mg/kg	17000	8000	36000	28000
5.304	Manganese (Tot.) as Mn	mg/kg	130	91	610	650
5.304	Nickel (Tot.) as Ni	mg/kg	5.4	6.5	15	9.3
5.304	Lead (Tot.) as Pb	mg/kg	<10	19	11	31
5.304	Zinc (Tot.) as Zn	mg/kg	84	74	110	110
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10

s.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

Page 7 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/25	/26	/27	/28
5.304	Calcium (Tot.) as Ca	mg/kg	1000	2600	2600	1200
5.304	Magnesium (Tot.) as Mg	mg/kg	310	1800	2500	3500
5.304	Sodium (Tot.) as Na	mg/kg	<400	730	<400	570
5.304	Potassium (Tot.) as K	mg/kg	480	480	620	430
5.304	Aluminium (Tot.) as Al	mg/kg	2900	13000	14000	14000
5.304	Barium (Tot.) as Ba	mg/kg	20	66	73	58
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	3.0	20	28	40
5.304	Copper (Tot.) as Cu	mg/kg	26	8.5	8.3	9.7
5.304	Iron (Tot.) as Fe	mg/kg	39000	26000	19000	25000
5.304	Manganese (Tot.) as Mn	mg/kg	590	70	260	130
5.304	Nickel (Tot.) as Ni	mg/kg	9.3	10	13	11
5.304	Lead (Tot.) as Pb	mg/kg	14	<10	16	<10
5.304	Zinc (Tot.) as Zn	mg/kg	130	39	44	46
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10
Method	Test	Units	/29	/30	/31	/32
5.304	Calcium (Tot.) as Ca	mg/kg	2700	1900	980	1800
5.304	Magnesium (Tot.) as Mg	mg/kg	2500	2800	410	790
5.304	Sodium (Tot.) as Na	mg/kg	550	<400	<400	<400
5.304	Potassium (Tot.) as K	mg/kg	2700	1100	230	200
5.304	Aluminium (Tot.) as Al	mg/kg	12000	16000	2400	3000
5.304	Barium (Tot.) as Ba	mg/kg	160	97	17	20
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	6.9	28	5.4	7.8
5.304	Copper (Tot.) as Cu	mg/kg	13	6.8	12	25
5.304	Iron (Tot.) as Fe	mg/kg	31000	25000	16000	11000
5.304	Manganese (Tot.) as Mn	mg/kg	170	400	300	210
5.304	Nickel (Tot.) as Ni	mg/kg	8.1	17	7.1	7.3
5.304	Lead (Tot.) as Pb	mg/kg	23	20	11	18
5.304	Zinc (Tot.) as Zn	mg/kg	99	56	56	51
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10	<10	<10

s.73 Irrelevant information

Please note that the above results refer only to the samples tested, and not to the patches from which they were drawn.

Page 8 of 9

Client: City Design, Ground Engineering
Job Name: 98155 Howard Smith Walk

Batch Number: 99/0933
Report Date: 5/03/99

Method	Test	Units	/33	/34
5.304	Calcium (Tot.) as Ca	mg/kg	1500	4400
5.304	Magnesium (Tot.) as Mg	mg/kg	450	1200
5.304	Sodium (Tot.) as Na	mg/kg	<400	500
5.304	Potassium (Tot.) as K	mg/kg	890	480
5.304	Aluminium (Tot.) as Al	mg/kg	1600	9400
5.304	Barium (Tot.) as Ba	mg/kg	68	1200
5.304	Cadmium (Tot.) as Cd	mg/kg	<1.0	<1.0
5.304	Chromium (Tot.) as Cr	mg/kg	<2.0	19
5.304	Copper (Tot.) as Cu	mg/kg	8.0	43
5.304	Iron (Tot.) as Fe	mg/kg	19000	19000
5.304	Manganese (Tot.) as Mn	mg/kg	340	530
5.304	Nickel (Tot.) as Ni	mg/kg	3.3	21
5.304	Lead (Tot.) as Pb	mg/kg	21	180
5.304	Zinc (Tot.) as Zn	mg/kg	94	540
5.304	Arsenic (Tot.) as As	mg/kg	<10	<10

[ND] - Not Detected [NR] - Not Required [NT] - Not Tested

s.73 Irrelevant information

Authorised Signatory

Please note that the above results refer only to the samples tested, and not to the batches from which they were drawn.

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**SCIENTIFIC ANALYTICAL SERVICES LABORATORY**

Scientific Analytical Services
240 Donaldson Road
Rocklea Brisbane Qld 4106

Telephone 07 3403 2611
Facsimile 07 3403 2646

A unit of the Brisbane City Council

Attention: s.73 Irrelevant in
Client: City Design, Ground Engineering
Job Name: 98113 Quarry Rd - Extra Analyses
Sampling Date: 20/01/99
Sampled By: Client
Sampling Method: Grab
Sample Matrix: Soil/sediment
Batch Number: 99/1286
Registration Date: 17 February 1999
Date of Report: 17 February 1999

Method	Test	Units	/1 TP7 0.2m (0534/7)	/2 TP8 0.2m (0534/9)	/3 TP9 0.2m (0534/10)	/4 TP17 0.2m (0534/24)	/5 TP18 0.2m (0534/26)
External	OC/OP Pesticides		Complete	Complete	[NR]	[NR]	Complete
External	Hydrocarbon Banding		[NR]	[NR]	Complete	Complete	[NR]
External	BTEX		[NR]	[NR]	Complete	Complete	[NR]

[ND] - Not Detected [NR] - Not Required [NT] - Not Tested

OC/OP Pesticides, Total Petroleum Hydrocarbons and BTEX analysis performed by ALS EB19357.

s.73 Irrelevant information

Authorised Signatory

Please note that the above results refer only to the samples tested,
and not to the batches from which they were drawn.

Page 1 of 1

AUSTRALIAN LABORATORY SERVICES P/L A.C.N. 009 936 029

ANALYTICAL REPORT

PAGE 1 of 2

CONTACT: MS P BIANCHI
 CLIENT: BRISBANE CITY COUNCIL
 ADDRESS: ANALYTICAL SERVICES SECTION
 240 DONALDSON ROAD
 ROCKLEA QLD 4106

LABORATORY: ENV BRISBANE
 BATCH NUMBER: EB19357.
 SUB BATCH: 0
 No. OF SAMPLES: 3
 DATE RECEIVED: 11/02/99
 DATE COMPLETED: 17/02/99

ORDER No.: SAMPLE TYPE: SOIL PROJECT:

Method	Analysis description	Units	LOR	99/0534/7	99/0534/9	99/0534/26
EA-DS5	Moisture Content (dried @ 103°C)	%	0.1	10.2	10.0	5.4
EP-D68A-SS	ORGANOCHLORINE PESTICIDES					
	alpha-BHC	ng/kg	0.05	<0.05	<0.05	<0.05
	HCB	ng/kg	0.05	<0.05	<0.05	<0.05
	beta-BHC & gamma-BHC	ng/kg	0.1	<0.1	<0.1	<0.1
	delta-BHC	ng/kg	0.05	<0.05	<0.05	<0.05
	Heptachlor	ng/kg	0.05	<0.05	<0.05	<0.05
	Aldrin	ng/kg	0.05	<0.05	<0.05	<0.05
	Heptachlor apoxide	ng/kg	0.05	<0.05	<0.05	<0.05
	Chlordane - trans	ng/kg	0.05	<0.05	<0.05	<0.05
	Endosulfan 1	ng/kg	0.05	<0.05	<0.05	<0.05
	Chlordane - cis	ng/kg	0.05	<0.05	<0.05	<0.05
	Dieldrin	ng/kg	0.05	<0.05	<0.05	<0.05
	DDE	ng/kg	0.05	<0.05	<0.05	<0.05
	Endrin	ng/kg	0.05	<0.05	<0.05	<0.05
	Endosulfan 2	ng/kg	0.05	<0.05	<0.05	<0.05
	DDP	ng/kg	0.05	<0.05	<0.05	<0.05
	Endrin aldehyde	ng/kg	0.05	<0.05	<0.05	<0.05
	Endosulfan sulfate	ng/kg	0.05	<0.05	<0.05	<0.05
	DDT	ng/kg	0.2	<0.2	<0.2	<0.2
	Endrin ketone	ng/kg	0.05	<0.05	<0.05	<0.05
	Methoxychlor	ng/kg	0.2	<0.2	<0.2	<0.2
EP-D68B-SS	ORGANOPHOSPHORUS PESTICIDES					
	Dichlorvos	ng/kg	0.05	<0.05	<0.05	<0.05
	Demeton-S-methyl	ng/kg	0.05	<0.05	<0.05	<0.05
	Monocrotophos	ng/kg	0.2	<0.2	<0.2	<0.2
	Dimethoate	ng/kg	0.05	<0.05	<0.05	<0.05
	Diazinon	ng/kg	0.05	<0.05	<0.05	<0.05
	Chlorpyrifos-methyl	ng/kg	0.05	<0.05	<0.05	<0.05
	Parathion-methyl	ng/kg	0.2	<0.2	<0.2	<0.2

s.73 Irrelevant information

COMMENTS:

Samples analysed on an as received basis. Results reported on a dry weight basis.

This is the Final Report which supersedes any preliminary reports with this batch number.

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• Results apply to sample(s) as submitted by client.



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AUSTRALIAN LABORATORY SERVICES P/L

A.C.N. 009 936 029

ANALYTICAL REPORT

PAGE 2 of 2

CONTACT: MS P BIANCHI
CLIENT: BRISBANE CITY COUNCIL
ADDRESS: ANALYTICAL SERVICES SECTION
240 DONALDSON ROAD
ROCKLEA QLD 4106

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB19357
SUB BATCH: 0
No. OF SAMPLES: 3
DATE RECEIVED: 11/02/99
DATE COMPLETED: 17/02/99

ORDER No.:

SAMPLE TYPE: SOIL

PROJECT:

Method	Analysis description	Units	LOR	99/0534/7	99/0534/9	99/0534/26
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05
	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05
	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05
	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2
	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05
	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05
	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05
	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05
	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05
	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05
	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05
	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05
	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE	%	1	97	83	94
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE	%	1	91	66	91
	DEF	%	1	91	66	91

COMMENTS:

s.73 Irrelevant information

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This is the Final Report which supersedes any preliminary reports with this batch number

• Results apply to sample(s) as submitted by client.



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Page 2 of 2 No. 825

AUSTRALIAN LABORATORY SERVICES P/L

A.C.N. 009 936 029

ANALYTICAL REPORT

PAGE 1 of 1

CONTACT: MS P BIANCHI
CLIENT: BRISBANE CITY COUNCIL
ADDRESS: ANALYTICAL SERVICES SECTION
240 DONALDSON ROAD
ROCKLEA QLD 4106

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB19357
SUB BATCH: 1
No. OF SAMPLES: 2
DATE RECEIVED: 11/02/99
DATE COMPLETED: 17/02/99

ORDER No.:

SAMPLE TYPE: SOIL

PROJECT:

Method Analysis description Units LOR 99/0534/10 99/0534/24

EA-055	Moisture Content (dried @ 103°C)	%	0.1	9.6	8.9
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS				
	C6 - C9 Fraction	mg/kg	2	<2	<2
	C10 - C14 Fraction	mg/kg	50	<50	<50
	C15 - C28 Fraction	mg/kg	100	196	<100
	C29 - C36 Fraction	mg/kg	100	398	169
EP-080-SS	BTEX				
	Benzene	mg/kg	0.2	<0.2	<0.2
	Toluene	mg/kg	0.2	<0.2	<0.2
	Chlorobenzene	mg/kg	0.2	<0.2	<0.2
	Ethylbenzene	mg/kg	0.2	<0.2	<0.2
	meta- & para-Xylene	mg/kg	0.2	<0.2	<0.2
	ortho-Xylene	mg/kg	0.2	<0.2	<0.2
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SURROGATES				
	1,2-Dichloroethane-D4	%	1	81	85
	Toluene-D8	%	1	89	97
	4-Bromofluorobenzene	%	1	90	93

s.73 Irrelevant information

COMMENTS:

Samples analysed on an as received basis. Results reported on a dry weight basis.

This is the Final Report which supersedes any preliminary reports with this batch number.

RECEIVED

19 FEB 1999

Results apply to sample(s) as submitted by client.



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File C

ANALYTICAL SERVICES
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APPENDIX C
CHAIN OF CUSTODY FORMS

29/1/99

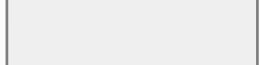
**BRISBANE WATER
SCIENTIFIC ANALYTICAL SERVICES**

ENVIRONMENTAL SAMPLES
Location: 98155 - Howard Smith Wharf.

Batch No	0933	Analysis Code	W-MISCINT
Date	27/1/99 + 2-2-99	Matrix	SOIL
Sampler	CLIENT	Client	CD-ENG
Date/Time Recd	4-2-99 1550	Job	98155
Received by	CS.	Sampling Method	GRAB
Correct Containers	Yes	Preservation	CHILLED
Sampling Time	—	hrs.	

Sample	Analysis Method Code	PH	HEAVY METAL	TPH	BTEX	PAH	OC/OP						
	Seq No												
BH1 0.2m	1	✓	✓			✓	✓						
0.5m	2	✓	✓										
BH3 0.2m	3	✓	✓										
BH4 0.2m	4	✓	✓			✓							
BH6 0.2m	5	✓	✓				✓						
BH7 0.35m	6	✓	✓	✓	✓	✓							
BH8 0.2m	7	✓	✓										
BH10 0.5m	8	✓	✓	✓	✓		✓						

s.73 Irrelevant information



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Date: 12/10/97

**BRISBANE WATER
SCIENTIFIC ANALYTICAL SERVICES**

ENVIRONMENTAL SAMPLES

Location:

Batch No	0933	Analysis Code	W-MISCENT
Date	27/1 + 2/2/99	Matrix	SOIL
Sampler	CLIENT	Client	LD-ENG
Date/Time Recd	2/2/99 1550	Job	98155
Received by	CS	Sampling Method	GRAB
Correct Containers	YES	Preservation	CHILLED
Sampling Time		hrs.	

Sample	Analysis Method Code	Seq No	pH	Heavy Metals	TPH	BTEX	PAH	OC/OP					
			Result	Result	Result	Result	Result						
BH12 0.5m	9		✓	✓									
BH15 0.2m	10		✓	✓									
BH17 0.2m	11		✓	✓									
BH20 0.2m	12		✓	✓				✓					
BH21 0.2m	13		✓	✓	✓	✓	✓						
BH22 0.2m	14		✓	✓	✓	✓	✓						
0.5m	15		✓	✓	✓	✓							
BH23 0.2m	16		✓	✓	✓	✓							

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Date: 12/10/97

**BRISBANE WATER
SCIENTIFIC ANALYTICAL SERVICES**

ENVIRONMENTAL SAMPLES

Location:

Batch No	0933	Analysis Code	W-MISCENT
Date	27/11 + 2/12/99	Matrix	SOIL
Sampler	CLIENT	Client	CD-ENG
Date/Time Recd	4/12/99 1550	Job	98155
Received by	CS.	Sampling Method	GRAB
Correct Containers	YES	Preservation	CHILLED
Sampling Time		hrs.	

Sample	Analysis Method Code Seq No	pH Result	Heavy Metals Result	TPH Result	BTEX Result	PAH Result	OC/OP						
BH25 0.2m	17	✓	✓										
BH27 0.2m	18	✓	✓										
BH28 0.5m	19	✓	✓										
BH33 0.2m	20	✓	✓										
BH34 0.2m	21	✓	✓				✓						
BH36 0.2m	22	✓	✓	✓	✓								
BH37 0.2m	23	✓	✓										
BH39 0.1m	24	✓	✓	✓	✓								

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Date : 12/10/97

**BRISBANE WATER
SCIENTIFIC ANALYTICAL SERVICES**

ENVIRONMENTAL SAMPLES

Location:

Batch No	0933	Analysis Code	W-MISCINT
Date	27/1 + 2/2/99	Matrix	SOIL
Sampler	CLIENT	Client	CD-ENG
Date/Time Recd	4/2/99 1350	Job	98155
Received by	CS.	Sampling Method	GRAB
Correct Containers		Preservation	CHILLED
Sampling Time		hrs.	

Sample	Analysis Method Code	P _H	HEAVY METALS	TPH	BTEX	PAH	OC/OP					
	Seq No	Result	Result	Result	Result	Result						
BH41 0.2m	25	✓	✓									
BH43 0.2m	26	✓	✓			✓	✓					
BH44 0.2m	27	✓	✓	✓	✓							
1m	28	✓	✓									
BH46 0.2m	29	✓	✓									
0.5m	30	✓	✓									
BH48 0.1m	31	✓	✓									
BH50 0.2m	32	✓	✓									

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Date : 12/10/97

**BRISBANE WATER
SCIENTIFIC ANALYTICAL SERVICES**

ENVIRONMENTAL SAMPLES

Location:

Batch No	0933	Analysis Code	W-MISCINT
Date	27/1 + 2/2/99	Matrix	SOIL
Sampler	CLIENT	Client	CD-ENG
Date/Time Recd	4/2/99 1350	Job	98155
Received by		Sampling Method	GRAB
Correct Containers		Preservation	CHILLED
Sampling Time		hrs.	

Sample	Analysis Method Code	PH	HEAVY METALS	TPH	BTEX	PAH	OC/OP				
	Seq No	Result	Result	Result	Result	Result					
BH51 0.2m	33	✓	✓	✓	✓						
BH52 0.2m	34	✓	✓	✓	✓	✓					

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Date: 12/10/97

Appendix B – Summary of Soil Analysis Results and Statistical Analysis

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SUMMARY OF SOIL ANALYSIS RESULTS

Location (refer site layout plan) Laboratory ID Sample ID and Depth (mBGL)		Assessment Guidelines							1 BH1-0.2	2 BH1-0.5	3 BH3-0.2	4 BH4-0.1	5 BH6-0.2	6 BH7-0.35	7 BH8-0.2	8 BH10-0.5
Analyte	Limit of Reporting (mg/kg)	Background	EITL	HIL 'A'	HIL 'D'	HIL 'E'	HIL 'F'	EPA								
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Metals		20														
Antimony	0.5	0.2-30	20	100	400	200	500	-	10	10	10	10	10	10	10	10
Arsenic	0.5	0.04-2	3	20	80	40	100	-	1	1	1	1	1	1.3	1	1
Cadmium	0.5	-	50	120,000	-	240,000	-	-	16	3.1	2.3	17	7.3	19	8.5	15
Chromium (Total)	0.5	1-190	60	1,000	4,000	2,000	5,000	-	84	4.0	6.7	58	11	18	22	23
Copper	0.5	<2-200	300	300	1,200	600	1,500	300	380	53	99	520	38	210	100	710
Lead	0.5	2-180	200	7,000	28,000	14,000	35,000	-	680	70	120	490	120	1500	400	710
Zinc	0.5															
TPH																
C6-C9	2	-	-	-	-	-	-	100						<2		<2
C10-C14	50	-	-	-	-	-	-	100						50		50
C15-C28	100	-	-	-	-	-	-	1,000						100		100
C29-C36	100	-	-	-	-	-	-	1,000						<100		<100
PAHs																
Napthalene	0.5	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Acenaphthylene	0.5	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Acenaphthene	0.5	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Flourene	0.5	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Phenanthrene	0.5	-	-	-	-	-	-	-	1.4			0.5		<0.5		
Anthracene	0.5	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Flouranthene	0.5	-	-	-	-	-	-	-	2			0.9		<0.5		
Pyrene	0.5	-	-	-	-	-	-	-	2.1			0.9		<0.5		
Benzo(a)anthracene	0.5	-	-	-	-	-	-	-	1			0.5		<0.5		
Chrysene	0.5	-	-	-	-	-	-	-	1.3			1.2		<0.5		
Benzo (b&k) flouranthene	1.0	-	-	-	-	-	-	-	2			1		<1.0		
Benzo(a)pyrene	0.5	-	-	1	4	2	5	1	1.2			0.5		0.5		
Indeno(1,2,3-cd)pyrene	1.0	-	-	-	-	-	-	-	0.6			<0.5		<0.5		
Dibenz(ah)anthracene	1.0	-	-	-	-	-	-	-	<0.5			<0.5		<0.5		
Benzo(ghi)perylene	1.0	-	-	-	-	-	-	-	0.7			<0.5		<0.5		
Total PAHs	-	0.95-5	-	20	80	40	100	20	15.3			9.5		8		

Notes:

LOR	Limit of Laboratory Reporting
Background	Levels Commonly Found in the Local Environment (EPA, 1998)
EITL	Urban Ecological Investigation Threshold Levels (EPA, 1998)
HIL 'A'	Health Investigation Level - Residential with Soil Access (EPA, 1998)
HIL 'D'	Health Investigation Level - Residential with Minimum Opportunity for Soil Access (EPA, 1998)
HIL 'E'	Health Investigation Level - Parks, Recreational Open Spaces and Playign Fields (EPA, 1998)
HIL 'F'	Health Investigation Level - Commercial Industrial (EPA, 1998)
EPA	QLD EPA Draft 'Clean Site' Guidelines (EPA, 1999)
-	Not Available/Not Relevant
n/a	Not Applicable
n/t	Not Tested

SUMMARY OF SOIL ANALYSIS RESULTS

Location (refer site layout plan) Laboratory ID Sample ID and Depth (mBGL)	9 BH12-0.5	10 BH15-0.2	11 BH17-0.2	12 BH20-0.2	13 BH21-0.2	14 BH22-0.2	15 BH22-0.5	16 BH23-0.2	17 BH25-0.2	18 BH27-0.2	19 BH28-0.5	20 BH33-0.2	21 BH34-0.1	22 BH36-0.2	23 BH37-0.2	24 BH39-0.1
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ng/kg
Metals																
Antimony																
Arsenic	10	10	10	10	10	10	10	21	10	10	10	10	10	10	10	10
Cadmium	1	1	1	3.4	1	1	1	1	1	1	1	1	1	1	1	1
Chromium (Total)	2.8	2	4.4	19	3.3	7.1	2	2	24	3.2	2.8	2	2	6.6	2.4	5
Copper	3.1	6.1	5.9	35	9.4	29	8.7	8.9	2.9	3.1	<1.0	9.9	15	5.1	19	12
Lead	36	100	48	650	110	130	11	10	24	12	10	10	10	19	11	31
Zinc	71	67	84	1400	270	350	100	77	50	69	37	100	84	74	110	110
TPH																
C6-C9					<2	<2	<2	<2						<2		<2
C10-C14					50	50	50	50						50		50
C15-C28					100	240	100	100						100		100
C29-C36					<100	<100	<100	<100						<100		<100
PAHs																
Napthalene						<0.5										
Acenaphthylene						<0.5										
Acenaphthene						<0.5										
Flourene						<0.5										
Phenanthrene						1.5										
Anthracene						0.8										
Flouranthene						4.1										
Pyrene						4										
Benzo(a)anthracene						2.6										
Chrysene						2.5										
Benzo (b&k) flouranthene						4										
Benzo(a)pyrene						1.9										
Indeno(1,2,3-cd)pyrene						1										
Dibenz(ah)anthracene						0.5										
Benzo(ghi)perylene						0.9										
Total PAHs						25.8										

Notes:

LOR	
Background	
EITL	
HIL 'A'	
HIL 'D'	
HIL 'E'	
HIL 'F'	
EPA	

n/a
n/t

SUMMARY OF SOIL ANALYSIS RESULTS

Location (refer site layout plan) Laboratory ID Sample ID and Depth (mBGL)	25 BH41-0.2	26 BH43-0.2	27 BH44-0.2	28 BH44-1.0	29 BH46-0.2	30 BH46-0.5	31 BH48-0.1	32 BH50-0.2	33 BH51-0.2	34 BH52-0.2	Mean	SD	Upper Mean 95% Confidence
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Metals													
Antimony			<10										
Arsenic	10	10	10	10	10	10	10	10	10	10	10.3	1.9	11.0
Cadmium	1	1	1	1	1	1	1	1	1	1	1.1	0.4	1.2
Chromium (Total)	3	20	28	40	6.9	28	5.4	7.8	2	19	10.0	9.7	13.2
Copper	26	8.5	8.3	9.7	13	6.8	12	25	8	43	17.0	17.2	22.8
Lead	14	10	16	<9.9	23	20	11	18	21	180	110.5	184.3	172.4
Zinc	130	39	44	46	99	56	56	51	94	540	244.1	357.2	364.1
TPH													
C6-C9			<2						<2	<2			
C10-C14			50						127	274	77.36	69.19	118.25
C15-C28			100						100	1830	270.00	519.10	576.77
C29-C36			<100						<100	<100			
PAHs													
Napthalene		<0.5								<0.5			
Acenaphthylene		<0.5								<0.5			
Acenaphthene		<0.5								<0.5			
Flourene		<0.5								<0.5			
Phenanthrene		<0.5								0.7			
Anthracene		<0.5								<0.5			
Flouranthene		<0.5								<0.5			
Pyrene		<0.5								<0.5			
Benzo(a)anthracene		<0.5								<0.5			
Chrysene		<0.5								<0.5			
Benzo (b&k) flouranthene		<1.0								<1.0			
Benzo(a)pyrene		0.5								0.5	0.85	0.59	1.32
Indeno(1,2,3-cd)pyrene		<0.5								<0.5			
Dibenz(ah)anthracene		<0.5								<0.5			
Benzo(ghi)perylene		<0.5								<0.5			
Total PAHs		8								8.2	12.47	7.11	18.16

Notes:

LOR	
Background	
EITL	
HIL 'A'	
HIL 'D'	
HIL 'E'	
HIL 'F'	
EPA	

n/a
n/t

Appendix C Photographs

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View of Building Number 2 with walkway/cycle way in foreground



View of fenced holding area on Lot 4



View of Building Number 3 and walkway/cycle way looking east.



View of fenced car parking area on Lot 3.



View of masonry structure on Lot 4



View of site looking west



View of south west portion of Lot 4



View of disused diesel AST (Lot 3).

Appendix D Draft Site Management Plans

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DRAFT SITE MANAGEMENT PLAN (SMP) –

LOT :4 PLAN : SP 128032 FILE REF : BNEXXXX

PRINTED:

DATE OF EFFECT:

1.0 SUMMARY OF CONTAMINATION

The site, Lot 4 SP 128032, 175 Bowen Terrace Fortitude Valley is currently used as a walkway with the remaining portion of the lot vacant and secured. The wharves on site were reportedly in use for most of last century and were also reportedly used in wartime by the Navy for ship maintenance and storage and loading of supplies. More recently (up to the late 1990s) the wharf buildings were used by various government departments to store various plant and equipment and to conduct maintenance and workshop activities. Low level radioactive materials such as medical equipment and consumables were stored on the site up until about 1989. A Queensland Health survey of the area where radioactive materials were stored reportedly cleared the area of any residual radioactivity at levels exceeding NHMRC guidelines. The site has largely remained vacant for the past 8 years.

Lot 4 is generally paved in concrete and bitumen with the exception of the wharf area which is constructed from timber. The site is characterised as a benched area between the southern face of a cliff/former quarry face and the Brisbane River. The bench area consists of a shallow layer (varying up to 1.0 metre) of fill overlying bedrock. The fill appears to predominantly consist of material consistent in terms of geological origin with the material observed in the cliff face.

The following maximum contaminants of concern were identified on the Howard Smith Wharf site of which Lot 4 on SP 128032 is part

arsenic 21 mg/kg
cadmium 3.4 mg/kg)
lead 710 mg/kg)
zinc 1500 mg/kg).
TPH (C₁₀-C₁₄ fraction) 274 mg/kg.
TPH (C₁₅-C₂₈ fraction) 1830 mg/kg.
Benzo(a)pyrene 1.9 mg/kg

These maximum contaminant contaminants were reported within shallow fill at the site.

2.0 OBJECTIVES OF THE SMP

The purpose of this SMP is to manage contamination on the site in a manner that protects human health and the environment.

3.0 ACHIEVEMENT AND MAINTENANCE OF OBJECTIVES

3.1 *Responsibility.* The owner of the land (as defined in the *Environmental Protection Act 1994*) is to ensure that this SMP and any variations approved or required by the administering authority are complied with. The obligations and conditions set out in this SMP bind the owner, from time to time, of the land.

3.2 *Site Use.* The intended use of the site is for mixed use including commercial and open space and recreational use.

3.3 *Site Provision of SMP to appropriate persons.* The owner must provide all persons involved in building design and planning and all contractors and lessees conducting building and/or excavation works with a copy of the SMP prior to commencement of works. All persons occupying or working on the site must comply with the requirements of the SMP.

3.4 *Surface Capping and Protective Barriers.* As the contaminant levels are generally below levels that would pose a risk to human health and the environment given any use for the site there are no specific requirements to maintain surface capping or protective barriers over the site.

3.5 *Soil excavation & Removal.* Soil material excavated on the site should be assessed for contaminants of concern and/or physical properties to determine if the material is contaminated and to identify appropriate management and disposal/re-use options.

Representative sampling and analysis of soil from excavation in areas of fill must be managed by a suitably qualified and experienced person in accordance with Section 381 of the *Environmental Protection Act 1994* (EP Act). Contaminated soil must not be removed off-site without a disposal permit in accordance with Section 424 of the EP Act.

3.6 *Unexpected Contamination.* If during any site earthworks or excavation, offensive or noxious odours and/or evidence of gross contamination not previously detected is observed, site works are to cease in that area and action taken to immediately prevent or minimise environmental harm. The administering authority is to be notified in writing within two (2) business days of detection and advised of any remedial action undertaken.

Any remedial action is to be developed by an appropriately qualified and experienced person in accordance with Section 381 of the EP Act.

3.7 *General Environmental Protection.* All earthworks are to be undertaken in accordance with general environmental protection measures to avoid unwanted migration and deposition of soil. These measures include the control of dust, noise, stormwater runoff, sediment, erosion, spillage from haulage trucks and odour releases involving the handling or movement of contaminated material.

3.8 *Workplace Health and Safety.* A Workplace Health and Safety Plan (WH&S plan), which conforms to the requirements of the *Workplace Health and Safety Act 1995* is to be developed for any site excavation works in contaminated areas. The WH&S plan must specifically address contaminants of concern.

4.0 MONITORING AND REPORTING

Records are to be kept of any soil excavation in contaminated areas, disposal permits and site management plan compliance for review by the administering authority from time to time.

This Site Management Plan (SMP) has been developed to manage site contamination risks present at the issue date. Subsequent uses of the site may result in the need to review the plan.

DRAFT SITE MANAGEMENT PLAN (SMP) –

LOT 3 PLAN : SP 190810 FILE REF : BNEXXXX

PRINTED:

DATE OF EFFECT:

1.0 SUMMARY OF CONTAMINATION

The site, Lot 3 SP 190810, 5 Boundary Street Brisbane is currently used as a walkway with the remaining portion of the lot vacant and secured. The wharf area and buildings on the site had previously been used by the water police and police diving squad for administration and storage purposes as well as housing refuelling facilities.

Lot 3 is paved in concrete and bitumen with the exception of the wharf area which is constructed from timber. The site is characterised as a benched area between the southern face of a cliff/former quarry face and the Brisbane River. The bench area consists of a shallow layer (varying up to 1.0 metre) of fill overlying bedrock. The fill appears to predominantly consist of material consistent in terms of geological origin with the material observed in the cliff face.

The following maximum contaminants of concern were identified on the Howard Smith Wharf site of which Lot 3 on SP 190810 is part

arsenic 21 mg/kg
cadmium 3.4 mg/kg)
lead 710 mg/kg)
zinc 1500 mg/kg).
TPH (C₁₀-C₁₄ fraction) 274 mg/kg.
TPH (C₁₅-C₂₈ fraction) 1830 mg/kg.
Benzo(a)pyrene 1.9 mg/kg

These maximum contaminant contaminants were reported within shallow fill at the site.

2.0 OBJECTIVES OF THE SMP

The purpose of this SMP is to manage contamination on the site in a manner that protects human health and the environment.

3.0 ACHIEVEMENT AND MAINTENANCE OF OBJECTIVES

3.1 *Responsibility.* The owner of the land (as defined in the *Environmental Protection Act 1994*) is to ensure that this SMP and any variations approved or required by the administering authority are complied with. The obligations and conditions set out in this SMP bind the owner, from time to time, of the land.

3.2 *Site Use.* The intended use of the site is for mixed use including commercial and open space and recreational use.

3.3 *Site Provision of SMP to appropriate persons.* The owner must provide all persons involved in building design and planning and all contractors and lessees conducting building and/or excavation works with a copy of the SMP prior to commencement of works. All persons occupying or working on the site must comply with the requirements of the SMP.

3.4 *Surface Capping and Protective Barriers.* As the contaminant levels are generally below levels that would pose a risk to human health and the environment given any use for the site there are no specific requirements to maintain surface capping or protective barriers over the site.

3.5 *Soil excavation & Removal.* Soil material excavated on the site should be assessed for contaminants of concern and/or physical properties to determine if the material is contaminated and to identify appropriate management and disposal/re-use options.

Representative sampling and analysis of soil from excavation in areas of fill must be managed by a suitably qualified and experienced person in accordance with Section 381 of the *Environmental Protection Act 1994* (EP Act). Contaminated soil must not be removed off-site without a disposal permit in accordance with Section 424 of the EP Act.

3.6 *Unexpected Contamination.* If during any site earthworks or excavation, offensive or noxious odours and/or evidence of gross contamination not previously detected is observed, site works are to cease in that area and action taken to immediately prevent or minimise environmental harm. The administering authority is to be notified in writing within two (2) business days of detection and advised of any remedial action undertaken.

Any remedial action is to be developed by an appropriately qualified and experienced person in accordance with Section 381 of the EP Act.

3.7 *General Environmental Protection.* All earthworks are to be undertaken in accordance with general environmental protection measures to avoid unwanted migration and deposition of soil. These measures include the control of dust, noise, stormwater runoff, sediment, erosion, spillage from haulage trucks and odour releases involving the handling or movement of contaminated material.

3.8 *Workplace Health and Safety.* A Workplace Health and Safety Plan (WH&S plan), which conforms to the requirements of the *Workplace Health and Safety Act 1995* is to be developed for any site excavation works in contaminated areas. The WH&S plan must specifically address contaminants of concern.

4.0 MONITORING AND REPORTING

Records are to be kept of any soil excavation in contaminated areas, disposal permits and site management plan compliance for review by the administering authority from time to time.

This Site Management Plan (SMP) has been developed to manage site contamination risks present at the issue date. Subsequent uses of the site may result in the need to review the plan.

STATUTORY DECLARATION

(INVESTIGATION REPORT PREPARER)

Address of Site Investigated: 3 Boundary Street Brisbane, Queensland 4000 and 175 Bowen Terrace Fortitude Valley, Queensland 4006

Real Property Descriptions: Lot 3 on SP 190810 and Lot 4 on SP 128032

Title of Report: Report Review Howard Smith Wharf
May 2008

I, Gregory James McPherson of Brisbane City Council, Level 1, Green Square, South Tower, 505 St Paul's Terrace, Fortitude Valley, in the State of Queensland, do solemnly and sincerely declare that;

- I was the investigator and preparer of the report described above;
- I am a member of Environment Institute of Australia and New Zealand (EIANZ); and my qualifications and experience as previously submitted to the Environmental Protection Agency are relevant to this investigation,
- I have not knowingly included any false, misleading or incomplete information in the report;
- I have not knowingly failed to reveal any relevant information or document to the administering authority; and

I certify that:

- The report addresses the relevant matters for the investigation and is factually correct; and
- The opinions expressed in it are honestly and reasonably held.

And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the *Oaths Act 1867*

Signature

s.73 Irrelevant information

Name

GREGORY JAMES MCPHERSON

Taken and Declared before me at BRISBANE this 29TH day of MAY 2008

Witness (Justice of the Peace/Commissioner for Declarations)

Signature

s.73 Irrelevant information

Jeffrey James Dowling

JP (Qual) 29426

s.73 Irrelevant information

Name (& JP Number if applicable).....

COVER SHEET

☐ Regional Info & Filing (hard copy) ☒ Electronic application received ☒ Regional - Action Required

PaLM Non-DA TEAM - ADMINISTRATION PROCESSING Application for Disposal Permit (Contaminated Land) Checklist	
Department/Office: Waste and Contaminated Land	AR No: AR105212
Project No: 193530	Permit No: CLEB0647817
Ecotrack Application ID reference: 623173	
Client No: 696935	EMR/CLR ID No: 31053
PaLM Contact: Kim Christeson	
Application Details Indicate by Yes ☒	
Applicant Name: Greencap Limited	
Contact Name s.73 Irrelevant inform	
Site Location Address: Howard Smith Wharves Precinct Boundary St Fortitude Valley	
Lot/Plan: 4 SP128032	
Application Dates	
Date Received: 27/9/17	Application Valid Date: 27/9/17
Due Date: 11/10/17 (10 business days after application deemed valid)	
Application Type: Non-DA Soil Disposal Permit	
Application Checks – Indicate by Yes ☒ Please note: A blank box may indicate an 'INVALID' application	
☒ Part A and Part B application forms supplied and completed ☒ Forms signed and dated ☒ All parts of the forms completed ☒ Letter of acceptance from Landfill, etc.	
WLCA ADMINISTRATION PROCESSING	
Applications are generally received by Email	
☐	SAVE COVER SHEET; ELECTRONIC AND/OR SCANNED HARD COPY FILE PARTS **
☐	LOCATE & ORDER FILE (eDOCS/Records) FILE Reference: ***Refer for eDOCS file path
☐	MOVE FILE TO WLCA OFFICER AND UPDATE eDOCS LOCATION
☐	FORWARD HARD COPY FILE TO WLCA OFFICER LOCATION
APPLICATION ASSESSMENT DECISION	
☐	PRINT DECISION NOTICE AND PERMIT; DELEGATE TO SIGN & SAVE *

☐	POST or EMAIL (if email address provided on application) NOTICE & PERMIT TO APPLICANT/OWNER/LGA
☐	UPDATE ECOTRACK (Decision, Permit Effective Date & Expiry Date; Officer Responsible, Delegate, File Reference, &.Upload Notices)
	➤ EMAIL COPY OF DECISION NOTICE TO: emr.clr.registry@ehp.qld.gov.au
☐	COPY OVER FILES FROM LOCAL DIRECTORY/FOLDER TO eDOCS (** to ***)

****Save to:** "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year; month; project number; as e.g. "Cover Sheet-Ecotrack Permit Reference #"

*****eDOCS save to:** ENVIRONMENTAL MANAGEMENT\CONTAMINATED SITES MANAGEMENT\Notifiable Activities or by Local Government Authority (request file creation using lot/plan description)

COVER SHEET

☐ Regional Info & Filing (hard copy) ☐ Electronic application received ☒ Regional - Action Required

PaLM Non-DA TEAM - ADMINISTRATION PROCESSING Application for Disposal Permit (Contaminated Land) Checklist	
Department/Office: Waste and Contaminated Land	AR No: 106404
Project No: 193530	Permit No: CLEB06437617
Ecotrack Application ID reference: 623742	
Client No: 696935	EMR/CLR ID No: 31053
PaLM Contact: Margaret Jones	
Application Details Indicate by Yes ☒	
Applicant Name: Greencap Ltd	
Contact Name: s.73 Irrelevant info	
Site Location Address: Howard Smith Wharf Site	
Lot/Plan: Lot 4 on SP128032	
Application Dates	
Date Received: 13/11/2017	Application Valid Date: 13/11/2017
Due Date: 27/11/2017 (10 business days after application deemed valid)	
Application Type: Non-DA Soil Disposal Permit	
Application Checks – Indicate by Yes ☒ Please note: A blank box may indicate an 'INVALID' application	
☒ Part A and Part B application forms supplied and completed ☒ Forms signed and dated ☒ All parts of the forms completed ☒ Letter of acceptance from Landfill, etc.	
WLCA ADMINISTRATION PROCESSING	
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