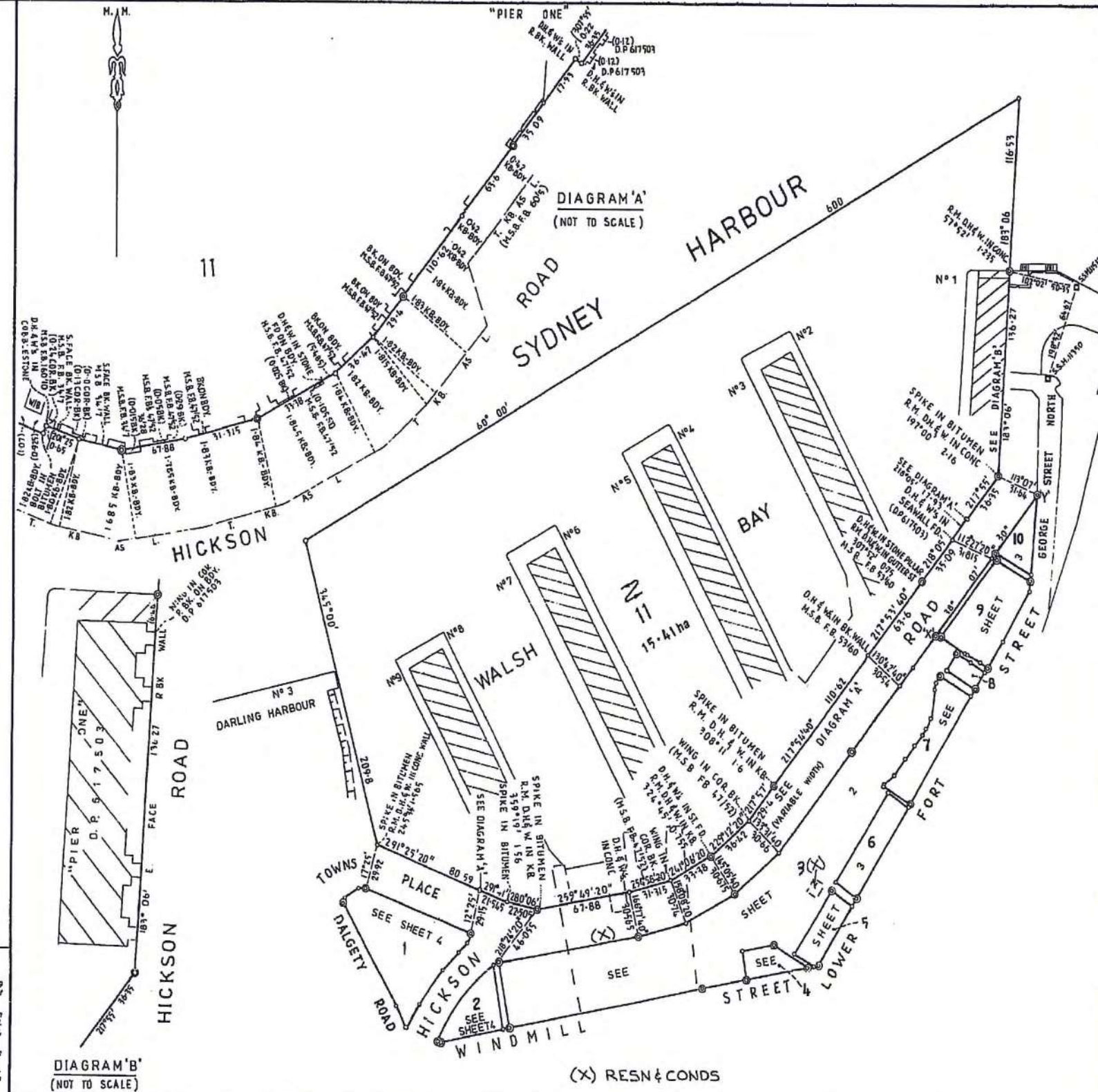


Signatures and seals only.

Senior Surveyor
The Maritime Services Board of N.S.W.



D.P. 737193

Registered: MS 18.5 1987

C.A.:

Title System: TORRENS

Purpose: SUBDIVISION

PARISH: U1852-71

Ref. Map: CITY SEC'S 90, 91, 92

D.P.s 19264, 112828, 54005, 984169,
60198, 59448, 59635, 50447,
193046, 625423, 551202,
109685, 543695, 617507

PLAN OF CONSOLIDATION OF THE LAND
COMPRISING INCERTIFICATES OF TITLE
VOL. 1 FOLIO 163, VOL. 204 FOLIO 158, VOL. 280 FOLIO 158,
VOL. 772 FOLIO 125, VOL. 1209 FOLIO 136, VOL. 17009 FOLIO 19,
1/112828, 2/112828, 3/112828, 4/112828, 5/112828,
AND PART OF THE LAND COMPRISING
INCERTIFICATES OF TITLE VOL. 655 FOLIO 214,
VOL. 1170 FOLIO 126, VOL. 1181 FOLIO 132, VOL. 1216 FOLIO 158,
VOL. 1224 FOLIO 150, VOL. 1516 FOLIO 187, VOL. 5018 FOLIO 1,
VOL. 767 FOLIO 211.

Reduction Ratio 1:2000

Lengths are in metres.

City: SYDNEY

Locality: WALSH BAY

Parish: ST PHILIP

County: CUMBERLAND

This is sheet 1 of my plan in 4 sheets.
(Delete if inapplicable).

John Alfred Ireland

Sydney (H.A.R. & N.S.W.)

I, the Surveyor, registered under the Surveyors Act, 1920, as
amended, hereby certify that the survey represented in this
plan is accurate and has been made in accordance with the
Survey Practice Regulations, 1933, and was completed on 1 May 1987.

15th May 87

Signature: J. Ireland

Surveyor registered under Surveyors Act, 1920, as amended.
Datum: Line of Astruc's "X" Y
(Strike out either (1) or (2). Insert date of survey.)

Panel for use only for statements of intention
to dedicate public roads or to create public res-
erves, drainage reserves, easements or restrictions
as to use.

THE COUNCIL OF THE CITY OF
SYDNEY HAS APPROVED OF THE
DEFINITION OF HICKSON RD,
HICKSON STEPS, LOWER FORT ST,
TOWNS PLACE, DALGETY RD,
GEORGE ST NTH, WINDMILL ST,
WINDMILL STEPS.

Drawn by J. Ireland Examined by J. Ireland
City Officer-in-Charge, Survey Draftsman
The Maritime Services Board of N.S.W.
Field Book 537193-92 Plot m512
Mag. Meridian P.J. 531647

SURVEYOR'S REFERENCE R.P. 1080 (SH 1)

Council Clerk's Certificate

I hereby certify that -

- (a) the requirements of the Local Government Act, 1919
(other than the requirements for the registration of
plans), and
(b) the requirements of section 348 of the Metropolitan
Water, Sewerage and Drainage Act, 1924, as amended,
Hunter District Water, Sewerage, and Drainage Act,
1936, as amended

have been complied with by the applicant in relation to the
proposed
(Insert "new road", "subdivision" or "consolidated lot") set out herein

Subdivision No.

Date

(Signature)

Council Clerk

*This part of certificate to be deleted where the application is only
for a consolidated lot or the opening of a new road or where the land
to be subdivided is wholly outside the area of operations of the
Metropolitan Water, Sewerage and Drainage Board and the Hunter
District Water Board.
Delete if inapplicable.

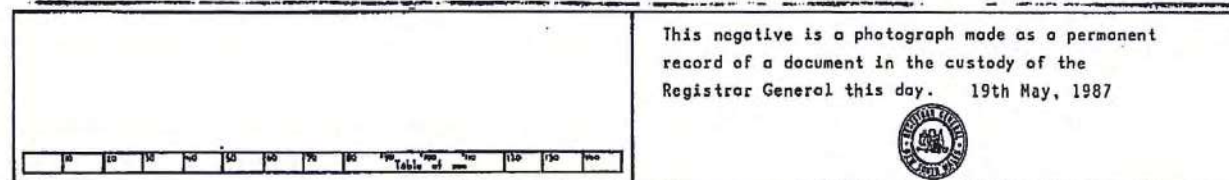
M.P.D.

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

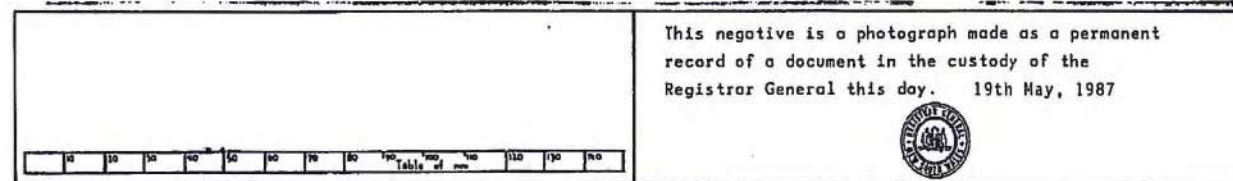
This negative is a photograph made as a permanent
record of a document in the custody of the
Registrar General this day. 19th May, 1987



Table of mm



Req:R993797 /Doc:DP 0737193 P /Rev:25-Jun-1992 /Sts:OK.OK /Prt:14-Feb-2014 12:12 /Pgs:ALL /Seq:2 of 4
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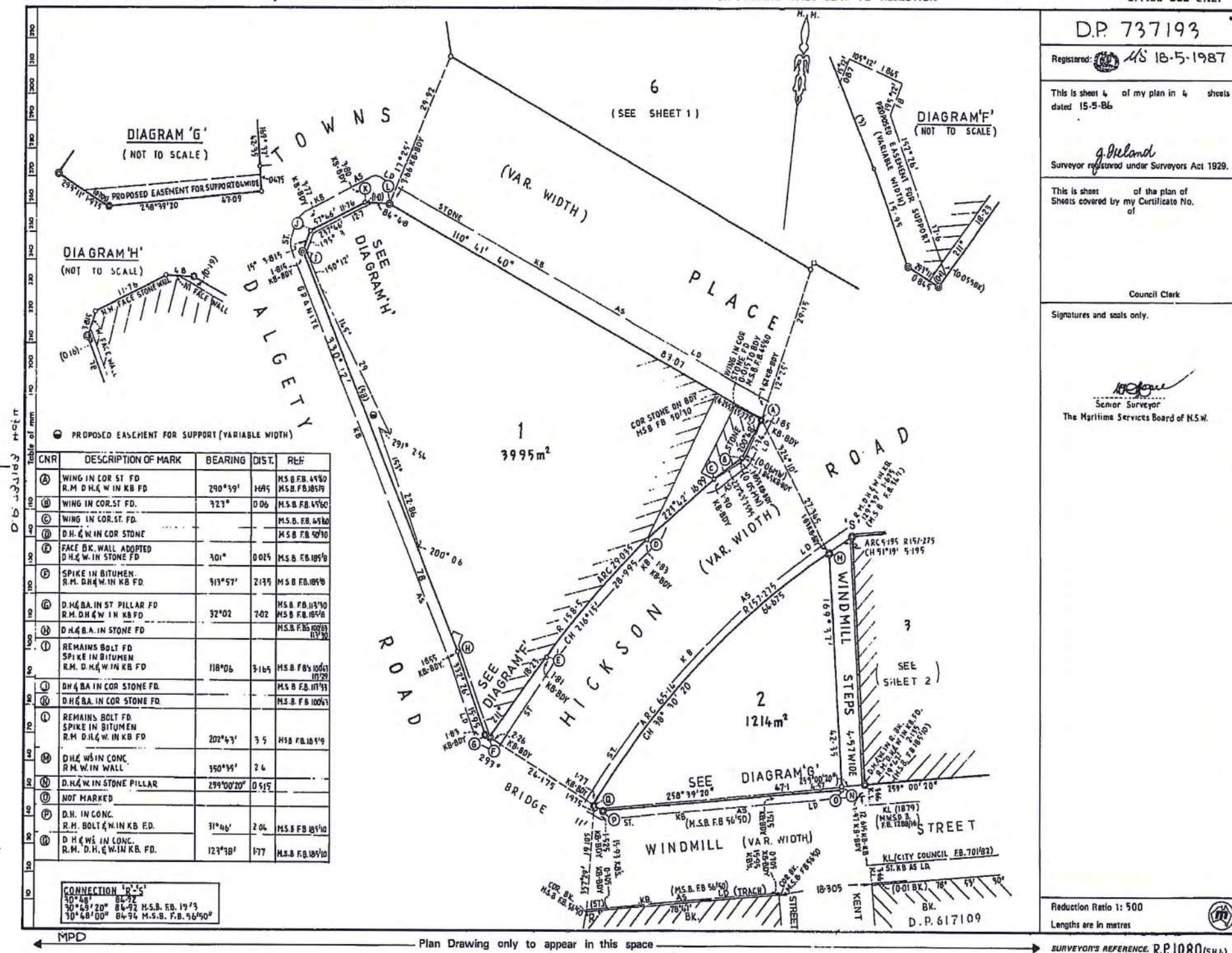


PLAN FORM 3

To be used in conjunction with Plan Form 2

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

OFFICE USE ONLY



D.P. 737193

Registered: 18-5-1987

This is sheet 4 of my plan in 4 sheets dated 15-5-86

g. Ireland
Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

Senior Surveyor
The Maritime Services Board of N.S.W.

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 19th May, 1987



SIGNATURE AND SEALS ONLY

Zeron Michener

SURVEYORS (PRACTICE) REGULATION 1996 CLAUSE 32(2)				
M.G.A. CO-ORDINATES				
MARK	EASTING	NORTHING	ZONE	ACC.
SSM 46688	333700.121	6252144.674	56	B
SSM 69303	333946.807	6252238.741	56	B
SSM 69607	333753.813	6252201.749	56	B

SOURCE: SCIMS 5.7.2000 COMBINED SCALE FACTOR: 0.99994
 ORIGIN OF LEVELS S.S.M. 69307 RL 2.568 AHD (ACC. 2)
 & SSM 69303 RL 2.391 AHD (ACCC. 2)

M.G.A.

DP1018716

Registered: 4/13-2-2001

C.A: SEE CERTIFICATE

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: U1045-111, 112, 1122
U1052-73

Last Plan: DP812925

PLAN OF SUBDIVISION OF LOT 2
D.P. 812925

Lengths are in metres. Reduction Ratio 1:2000

L G A SYDNEY

Suburb/Locality: MILLERS POINT

Parish: ST PHILIP

County: CUMBERLAND

This is sheet 1 of my plan in 2 sheets
(Delete if inapplicable)

I, ANDREW P. MASON
 of FRANK M. MASON & CO. PTY LTD
 DX 3511 MILLSON'S POINT

a surveyor registered under the Surveyors Act, 1929, hereby
 certify that the survey represented in this plan is accurate, has been
 made in accordance with the Surveyors (Practice) Regulation 1996
 and was completed on 12.01.2001

The survey relates to LOTS 8 AND 9 AND
 CONNECTIONS ONLY

(here specify the land actually surveyed, or specify any land shown
 in the plan that is not the subject of the survey)

Signature: Andrew P. Mason

Datum Line: X-Y Surveyor registered under
 the Surveyors Act 1929

Plans used in preparation of survey/compilation.

DP 812925
 DP 737193

PANEL FOR USE ONLY for statements of
 intention to dedicate public roads or to
 create public reserves, drainage reserves,
 easements, restrictions on the use of land
 or positive covenants.

PURSUANT TO SECTION 88B OF THE
 CONVEYANCING ACT 1919
 IT IS INTENDED TO CREATE:

1. EASEMENT FOR RAKER PILES VARIABLE WIDTH
2. RIGHT OF ACCESS VARIABLE WIDTH 'A'
3. RIGHT OF FOOTWAY VARIABLE WIDTH
4. EASEMENT FOR SERVICES 2 WIDE 'B'
5. EASEMENT FOR MAINTENANCE 1.05, 2.2 & 2.5 WIDE AND VARIABLE.
6. EASEMENT FOR ENCROACHMENT 0.3 & 0.8 WIDE.
7. RIGHT OF ACCESS VARIABLE WIDTH 'C'
8. EASEMENT FOR SERVICES 'D'
9. EASEMENT FOR OVERHANGING STRUCTURE 2.4 WIDE
10. EASEMENT FOR SUPPORT AND ENCROACHMENT 1.75 & 4.5 WIDE
11. RESTRICTION ON USE
12. EASEMENT FOR CONSTRUCTION 3.55 WIDE
13. EASEMENT FOR ACCESS & ENCROACHMENT 2.2 & 3.055 WIDE.

- Ø DENOTES RIGHT OF CARRIAGEWAY 8.2 WIDE (DP 812925)
 ■ DENOTES EASEMENT FOR SUPPORT 0.5 WIDE (DP 812925)

Crown Land Office Approval

PLAN APPROVED

Authorised Officer

Land District

Paper No

Field Book

pages

Subdivision Certificate

I certify that the provisions of s.109(1) of the Environmental Planning
 and Assessment Act 1979 have been satisfied in relation to the
 proposed SUBDIVISION set out herein

(insert 'subdivision' or 'new road')

Authorised Person: Deborah Deering

* Authorised Person/General Manager/Accredited Certifier

Consent Authority: DEPT. OF URBAN AFFAIRS & PLANNING

Date of endorsement: 12.01.2001

Accreditation no.

Subdivision Certificate no. 304-08-00

File no. 500/01346

When the plan is to be lodged electronically in the Land Titles
 Office it should include a signature in an electronic or digital
 format approved by the Registrar General.

* Delete whichever is inapplicable

S.S.M. 46688 FD.

G.D.A. 22375100

SURVEY

S.S.M. 69307 FD.

RL 2.568

S.S.M. 69303 FD.

SSM - CNR

254°30'35" 24.585

RL 2.391

R.M.D.H.&W. FD

135°33'40" 3.485

(VIDE D.P.737193)

R.M.D.H.&W. FD

66°23'40" 1.235

(VIDE D.P.737193)

EAST FACE BUILDING (DP 737193)

136.27

11°37'40"

116.53

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

DP1018716

Registered 1/13-2-2001

This is sheet 2 of my plan in 2 sheets
dated 19.12.2000

Andrew Hason

Surveyor registered under Surveyors Act 1929

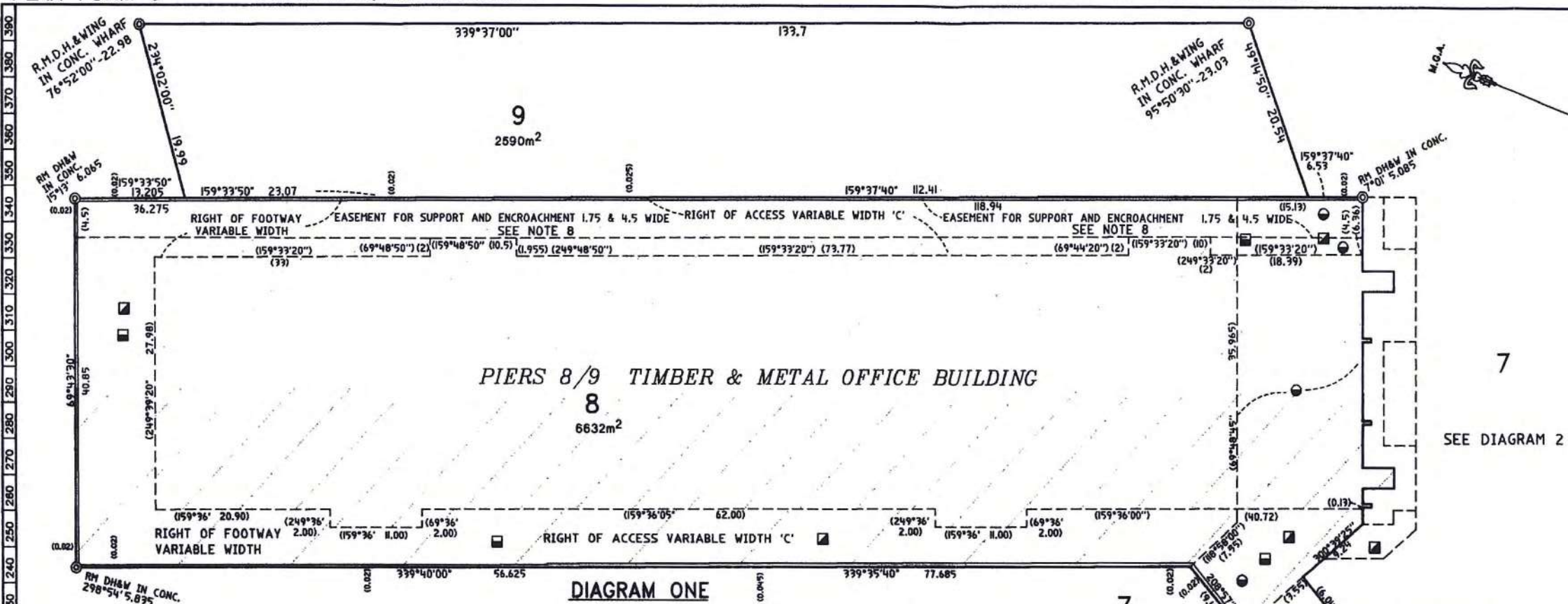
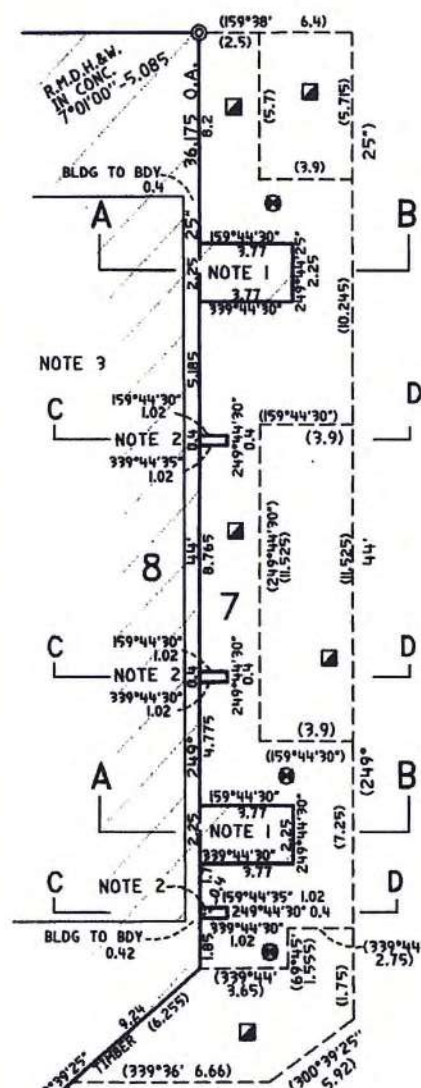
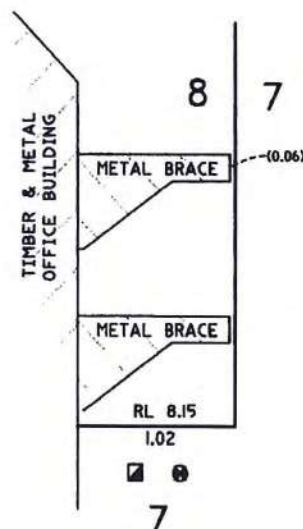
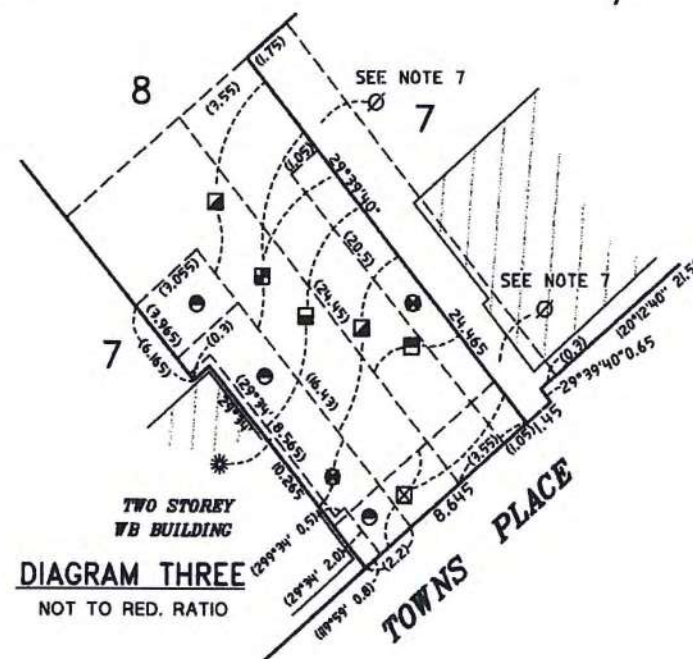
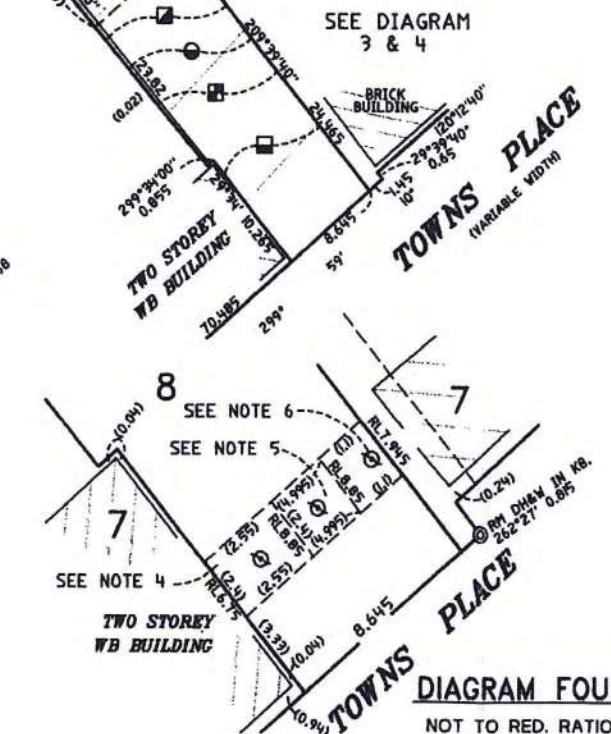
This is sheet 2 of the plan of 2
sheets covered by my Certificate No.
304-08-00 of 12.01.2001Deborah Kemp
Council ClerkFor use where space is insufficient in any panel on Plan
Form 2Req:R993796 /Doc:DP 1018716 P /Rev:16-Feb-2001 /Sts:SC,OK /Prt:14-Feb-2014 12:12 /Pgs:ALL /Seq:2 of 2
Ref:df /Src:M

DIAGRAM ONE

SEE DIAGRAM 2

DIAGRAM TWO
NOT TO RED. RATIOELEVATION A-B
NOT TO RED. RATIOELEVATION C-D
NOT TO RED. RATIODIAGRAM THREE
NOT TO RED. RATIODIAGRAM FOUR
NOT TO RED. RATIO

EASEMENT FOR SERVICES "D" AFFECTS THE WHOLE OF LOT 8.

- NOTE 1. THIS PART OF LOT 8 IS UNLIMITED IN HEIGHT AND LIMITED IN DEPTH TO A HORIZONTAL PLANE AT R.L. 13.05. THIS PART OF LOT 7 IS LIMITED IN HEIGHT TO A HORIZONTAL PLANE AT R.L. 13.05 AND UNLIMITED IN DEPTH.
- NOTE 2. THIS PART OF LOT 8 IS UNLIMITED IN HEIGHT AND LIMITED IN DEPTH TO A HORIZONTAL PLANE AT R.L. 8.15. THIS PART OF LOT 7 IS LIMITED IN HEIGHT TO A HORIZONTAL PLANE AT R.L. 8.15 AND UNLIMITED IN DEPTH.
- NOTE 3. THIS PART OF LOT 8 IS UNLIMITED IN HEIGHT AND DEPTH.
- NOTE 4. THIS PART OF THE EASEMENT FOR OVERHANGING STRUCTURE IS LIMITED IN DEPTH TO AN INCLINED PLANE BETWEEN RL'S 6.75 AND 8.85 AND IS UNLIMITED IN HEIGHT.
- NOTE 5. THIS PART OF THE EASEMENT FOR OVERHANGING STRUCTURE IS LIMITED IN DEPTH TO RL 8.85 AND IS UNLIMITED IN HEIGHT.
- NOTE 6. THIS PART OF THE EASEMENT FOR OVERHANGING STRUCTURE IS LIMITED IN DEPTH TO AN INCLINED PLANE BETWEEN RL'S 8.85 AND 7.945 AND IS UNLIMITED IN HEIGHT.
- NOTE 7. THIS PART OF THE EASEMENT FOR SUPPORT & ENCROACHMENT IS LIMITED IN HEIGHT TO RL 2.70 AND IS UNLIMITED IN DEPTH.
- NOTE 8. THIS PART OF THE EASEMENT FOR SUPPORT & ENCROACHMENT IS LIMITED IN HEIGHT TO RL 3.70 AND IS UNLIMITED IN DEPTH.

- (1) ● DENOTES EASEMENT FOR RAKER PILES VARIABLE WIDTH (LIMITED IN HEIGHT TO R.L. 3.2)
- (2) ■ DENOTES RIGHT OF ACCESS VARIABLE WIDTH 'A' (LIMITED IN DEPTH TO RL 1.70)
- (3) ■ DENOTES RIGHT OF FOOTWAY VARIABLE WIDTH
- (4) ■ DENOTES EASEMENT FOR SERVICES 2 WIDE 'B' (LIMITED IN HEIGHT TO R.L. 1.70)
- (5) ■ DENOTES EASEMENT FOR MAINTENANCE 1.05, 2.2 & 2.5 WIDE AND VARIABLE.
- (6) * DENOTES EASEMENT FOR ENCROACHMENT 0.3 & 0.8 WIDE
- (7) ■ DENOTES RIGHT OF ACCESS VARIABLE WIDTH 'C'
- (9) ■ DENOTES EASEMENT FOR OVERHANGING STRUCTURE 2.4 WIDE
- (10) ■ DENOTES EASEMENT FOR SUPPORT & ENCROACHMENT 1.75 & 4.5 WIDE
- (12) ■ DENOTES EASEMENT FOR CONSTRUCTION 3.55 WIDE
- (13) ● DENOTES EASEMENT FOR ACCESS & ENCROACHMENT 2.2 & 3.055 WIDE

Plan Drawing only to appear in this space

Reduction Ratio 1: 400

SURVEYORS REFERENCE: 29235-11

Appendix F City of Sydney Section 149 Certificate

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000
Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au
GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au



JULIA NICHOLSON
JBS ENVIRONMENTAL PTY LTD
LEVEL 1 50 MARGARET ST
SYDNEY NSW 2000

PLANNING CERTIFICATE

Under Section 149 of the Environmental Planning and Assessment Act, 1979

Applicant:	JBS ENVIRONMENTAL PTY LTD
Applicant's reference:	JBS & G
Address of property:	13A Hickson Road , DAWES POINT NSW 2000
Owner:	MARITIME AUTHORITY of NSW
Description of land:	Lot 11 DP 1138931
Certificate No.:	2014300871
Certificate Date:	14/02/14
Receipt No:	5018824
Fee:	\$80.00
Paid:	14/02/14

Title information, description, dimensions and area of land are provided from data supplied by the Valuer General and shown where available.

Issuing Officer *VW*
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:

Ph: 9265 9333
Fax: 9265 9415

Sydney2030 Green/Global/Connected

**PLANNING CERTIFICATE UNDER SECTION 149 (2) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

**MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).**

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone 1 – Walsh Bay Conservation Zone – Sydney Regional Environmental Plan 16.

- (1) The objectives of this zone are:
- (a) To allow an appropriate range of uses to encourage the adaptive re-use of existing structures while not required for commercial port uses;
 - (b) To ensure that development is consistent with the heritage significance, the scale, the built form and the materials of existing structures in the zone and adjoining areas;
 - (c) To ensure that development is compatible with and does not detract from the financial, commercial and retail functions of the existing city central business district functions and the Sydney Cove Redevelopment Area; and
 - (d) To ensure that development is compatible with and does not adversely impact on the residential amenity and function of the adjoining areas.
- (2) Without Development Consent
Nil
- (3) Only with Development Consent
Any purpose other than a purpose included in item (2) or (4)
- (4) Prohibited
Bus depots, bus stations, car repair stations, gas holders, generating works, helipads, heliports, industries (other than home industries and light industries), institutions, junk yards, liquid fuel depots, marinas, mines, roadside stalls, road transport terminals, sawmills.

Zone 2 – Walsh Bay Waterway Zone – Sydney Regional Environmental Plan No 16.

- (1) The objectives of the zone are:
- (a) To control the use of the waterway between the wharves to ensure that any activities associated with any development are compatible with the commercial shipping and navigational requirements in Sydney Harbour;
 - (b) To ensure that the Harbour and Harbour Foreshore is recognised as a community asset; and
 - (c) To limit mooring facilities for private vessels used by the lessees and tenants of property in Zone 1 – Walsh Bay Conservation Zone.
- (2) Without Development Consent
Aids to navigation, maintenance dredging, maintenance of mooring facilities, mooring of vessels owned by the Maritime Services Board.
- (3) Only with Development Consent
Boating or waterway access stairs, dredging, emergency vehicle accessways, floating restaurants or entertainment facilities, flora and fauna enclosures, mooring facilities, mooring of fishing and charter vessels, pontoons, public walkways, utility installations (other than gas holders and generating works).

(4) Prohibited

Any purpose other than a purpose included in item (2) or (3).

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

Sydney Harbour Foreshores and Waterways Area Development Control Plan 2005 (commenced 28.09.2005) – This DCP applies to all development proposals within the Foreshores and Waterways Area identified in SREP (Sydney Harbour Catchment) 2005 (refer to the Foreshores and Waterways Area map)

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

HERITAGE

Walsh Bay Conservation Zone

A person shall not, in respect of the Walsh Bay Conservation Zone: demolish or alter a building or work within the Zone; damage or remove a relic, including excavation for the purpose of exposing or removing a relic, within the Zone; damage or despoil a place within the Zone; erect a building on or subdivide land within the Zone; or damage any tree within the Zone, except with the consent of the consent authority.

State Heritage Register (Amendment to Heritage Act, 1977, gazetted 2/4/99)

This property is identified as being of state significance and has been entered on the State Heritage Register. Unless the proposed work is exempt under the Heritage Office Standard Exemptions or is covered by site specific exemptions, an applicant must seek an integrated development approval from Council and as such the proposal will be referred to the Heritage Council. If major changes are proposed the Heritage Council may require the applicant to prepare a conservation management plan in accordance with the NSW Heritage Manual Guidelines. For further information please contact the Heritage Office (02) 9873 8500 or alternatively online www.heritage.nsw.gov.au.

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 1 – Development Standards

This policy makes development standards more flexible. It allows Council to approve a development proposal that does not comply with a set standard where this can be shown to be unreasonable or unnecessary.

State Environmental Planning Policy No. 4 – Development without Consent and Miscellaneous Complying Development

This policy allows relatively simple or minor changes of land or building use and certain types of development by public authorities without the need for formal development applications. The types of development covered are outlined in the policy.

SREP 16 – Walsh Bay

Clauses 9 & 10 of State Environmental Planning Policy No. 4 do not apply to the land within Sydney Regional Environmental Plan No. 16 – Walsh Bay.

State Environmental Planning Policy No. 6 – Number of Storeys in a Building

This policy sets out a method for determining the number of storeys in a building, to prevent possible confusion arising from the interpretation of various environmental planning instruments.

State Environmental Planning Policy No. 10 – Retention of Low-Cost Accommodation

This policy aims to provide a mechanism for the retention of low-cost rental accommodation. The policy establishes criteria for determining a low-cost rental residential building (including boarding houses, hostels and low rental residential flat buildings), matters for Council consideration and requirements for development proposed under the policy.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas

This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 22 – Shops and Commercial Premises

This policy allows, with the consent of Council, a change of use from a shop to another kind of shop or commercial premises, where the new use is prohibited under an environmental planning instrument.

State Environmental Planning Policy No. 32 – Urban Consolidation

This policy implements the principles of urban consolidation, including the orderly, economic use and development of land. The policy enables urban land which is no longer required for the purpose for which it is currently zoned or used to be redeveloped for multi-unit housing and related development.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land

This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No 60 – Exempt and Complying Development (Gazetted 3.03.00)

Specifies exempt and complying development in certain areas that have not provided for those types of development through a Local Environmental Plan. This is achieved by identifying the development of minimal environmental impact that is to be exempt and identifying development that is to be complying development. The policy also specifies standards for that development, identify complying development separately for metropolitan Sydney and regional areas of New South Wales, specifies conditions for complying development certificates and ensures that development consent is required for the subdivision of land, and the erection of a building or for demolition.

State Environmental Planning Policy No. 64 – Advertising and Signage

This policy aims to ensure that signage (including advertising):

Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Buildings

This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

State Environmental Planning Policy (Major Development) 2005

This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Temporary Structures and Places of Public Entertainment) 2007

This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007

This Policy aims to facilitate the effective delivery of infrastructure across the state.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Repeal of Concurrence and Referral Provisions) 2008

This Policy is an 'amending instrument' that removes or modifies referral and concurrence clauses within local environmental plans (LEPs), regional environmental plans (REPs) and State environmental planning policies (SEPPs).

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009

Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pyrmont

State Environmental Planning Policy (Urban Renewal) 2010

The aims of this Policy are as follows:

- (a) to establish the process for assessing and identifying sites as urban renewal precincts,
- (b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
- (c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011

The aims of this Policy are as follows:

- (a) to identify development that is State significant development,
- (b) to identify development that is State significant infrastructure and critical State significant infrastructure,
- (c) to confer functions on joint regional planning panels to determine development applications.

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment: to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

Sydney Regional Environmental Plan No.16 Walsh Bay (Gazetted 16/06/89, as amended)

This plan provides for the redevelopment of Walsh Bay by encouraging re-use of existing structures, protection of heritage items, control use of waterways & provision of public access to waterfront.

**OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
E. P. & A. REGULATION, 2000. CLAUSES (3) - (10)**

(3) Complying Development

- (1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clause 1.17A and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.
- (2) If complying development may not be carried out on that land because of the provisions of clause 1.17A and 1.19 of that Policy, the reasons why it may not be carried out under that clause.

Note: All Exempt and Complying Development Codes : Clause 1.17A(a) Development that requires concurrence of a person other than the consent authority, or the Director General of the Department of Environment, Climate Change and Water is **not** complying development.

General Housing Code

Complying development **may not** be carried out on the land under the General Housing Code if because of the provisions of clause 1.17A & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

▪ Clause 1.17A(b). Has been identified as land that is a critical habitat.	NO
▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the <i>Heritage Act 1977</i> or that is subject to an interim heritage order under the <i>Heritage Act 1977</i> .	YES
▪ Clause 1.17A(d) & 1.19(3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item.	NO
▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the <i>Wilderness Act 1987</i>).	NO
▪ Clause 1.17A(e) & 1.19(1). Has been identified as land that is within an environmentally sensitive area.	NO
▪ Clause 1.19(6)a. Has been identified as being within a heritage conservation area or a draft heritage conservation area.	YES
▪ Clause 1.19(6)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument.	NO
▪ Clause 1.19(6)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2.	YES
▪ Clause 1.19(6)d. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003.	NO
▪ Clause 1.19 (6)e. Has been identified as being excluded land identified by an environmental planning instrument.	NO
▪ Clause 1.19(6)f. Has been identified as being land in a foreshore area.	YES
▪ Clause 1.19(6)g. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour.	NO
▪ Clause 1.19(6)h. Has been identified as unsewered land within a drinking water catchment.	NO
▪ Clause 1.19(6)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998.	NO

Housing Alterations Code

Complying development under the Housing Alterations Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

General Commercial and Industrial Code

Complying development under the General Commercial and Industrial Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Subdivisions Code

Complying development under the Subdivisions Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Rural Housing Code

The Rural Housing Code does not apply to this Local Government Area.

General Development Code

Complying development under the General Development Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Demolition Code

Complying development under the Demolition Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

(4) Coastal Protection Act, 1979

The council has not been notified by the department of public works that the land is affected by the operation of section 38 or 39 of the coastal protection act, 1979.

(4A) Certain information relating to beaches and coasts

(1) In relation to a coastal council an order has **not** been made under Part 4D of the coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land).

(2) In relation to a coastal council : Council has **not** been notified under section 55X of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land)

(4B) Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This land has not been proclaimed to be a mine subsidence district within the meaning of section 15 of the mine subsidence compensation act, 1961.

(6) Road Widening and/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is not** affected by any road widening or road realignment under any planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

(a) The land **is not** affected by a policy adopted by the Council that that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

(b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

The development on this land or part of this land is not subject to flood related development controls.

(8) Land reserved for acquisition

No environmental planning instrument, or proposed environmental planning instrument applying to the land, provides for the acquisition of the land by a public authority, as referred to in section 27 of the Act.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

▪ Central Sydney Contributions (Amendment) Plan 2002 – in operation 16 th June 2003	NO
▪ Ultimo Pyrmont Section 94 Contributions Plan (approved C.S.P.C 15 th December 1994 and Council 19 th December 1994)	NO
▪ City of Sydney Development Contributions Plan 2006 – in operation 7 th April 2007	NO
▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16 th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16 th May 2007	NO

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biobanking Agreement

Council has not been notified of a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

(13) Orders under Trees (Disputes Between Neighbours) Act 2006

Council has not been notified of an order which has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 149(2) INFORMATION:

Information provided in accordance with planning certificate section 149 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

PLANNING CERTIFICATE UNDER SECTION 149 (5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

PLANNING CERTIFICATE SECTION 149 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Contaminated Land Potential:

Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 149 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:

The City of Sydney Local Environmental Plan 2012 incorporates Acid Sulfate soil maps. Development on the land identified in those maps should have regard to Division 4 clause 7.16 of the LEP.

Construction Noise and View Loss Advice:

Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

City of Sydney Tree Preservation Order 2004 (TPO)

This order applies to all land where South Sydney Local Environmental Plan 1998 applies and the City of Sydney Council or the Central Sydney Planning Committee is the relevant consent authority under the *Environmental Planning & Assessment Act 1979*. Contact Council's Contract and Asset Management section for more information.

Outstanding Notice & Order information

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order of type 6, 10, 11 under Section 121B of the *Environmental Planning and Assessment Act, 1979*). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

Resident & Visitor Parking Permit Schemes Restriction

Owners and occupiers of this address are **not eligible** to participate in the resident and visitor permit parking schemes.

The Minister is the Consent Authority

The Minister is the consent authority where development has a capital investment value of more than \$10 million. (State Environmental Planning Policy (Major Projects))

Sydney Harbour Foreshore Authority Act 1998

The provisions of the Sydney Harbour Foreshore Authority Act 1998 apply to the subject land.

For more information, contact the Property Officer at Sydney Harbour Foreshore Authority on telephone (02) 9240 8500.

ADVICE FROM OTHER BODIES

Sydney Ports Corporation Advice

Some land in the City of Sydney located in the vicinity of the White Bay, Glebe Island and Darling Harbour ports may be affected by noise from port operations.

Advice provided in accordance with planning certificate section 149 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 149 (6) of the Environmental Planning and Assessment Act, 1979).

For information regarding outstanding notices and orders a CERTIFICATE FOR OUTSTANDING NOTICES OF INTENTION AND/OR AN ORDER UNDER SECTION 735A OF THE LOCAL GOVERNMENT ACT, 1993 AND SECTION 121ZP OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979 may be applied for at Sydney City Council.

Planning certificate section 149 (2), local planning controls are available for inspection at the following locations:

General Enquiries :

Telephone: 02 9265 9333

Facsimile: 02 9265 9415

Town Hall House

Level 2,
Town Hall House,
456 Kent Street,
Sydney.
8am – 6pm, Monday - Friday

Glebe Customer Service Centre

Glebe Library,
186 Glebe Point Road,
Glebe
9am – 5pm, Monday – Friday

Neighbourhood Service Centre Kings Cross

50 Darlinghurst Road,
Potts Point
9am – 5pm, Monday – Friday
9am – 12pm, Saturday

Neighbourhood Service Centre Redfern

158 Redfern Street
Redfern
9am-5pm Monday – Friday
9am – 12 Noon Saturday

Green Square Customer Service Centre

The Tote,
100 Joynton Avenue,
Zetland
10am-6pm Monday – Friday

State planning controls are available for inspection at the following locations:

Sydney Harbour Foreshore Authority (former Sydney Cove Authority and Darling Harbour Authority),
Level 6,
66 Harrington Street,
The Rocks.

Department of Planning & Infrastructure Information Centre
23-33 Bridge Street,
Sydney NSW 2000

Where planning certificate section 149 (5) matters are supplied, complete details are available by writing to:
Chief Executive Officer,
City of Sydney,
G.P.O. Box 1591,
Sydney, NSW 2000

End of Document

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000
Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au
GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au



JULIA NICHOLSON
JBS ENVIRONMENTAL PTY LTD
LEVEL 1 50 MARGARET ST
SYDNEY NSW 2000

PLANNING CERTIFICATE

Under Section 149 of the Environmental Planning and Assessment Act, 1979

Applicant:	JBS ENVIRONMENTAL PTY LTD
Applicant's reference:	JBS & G
Address of property:	13 Hickson Road , DAWES POINT NSW 2000
Owner:	THE OWNERS - STRATA PLAN NO 73989
Description of land:	Lot 24 DP 1071597, Lots 1-22 SP 73989
Certificate No.:	2014300873
Certificate Date:	14/02/14
Receipt No:	5018824
Fee:	\$80.00
Paid:	14/02/14

Title information, description, dimensions and area of land are provided from data supplied by the Valuer General and shown where available.

Issuing Officer *VW*
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:

Ph: 9265 9333
Fax: 9265 9415

Sydney2030 / Green Global / Connected

**PLANNING CERTIFICATE UNDER SECTION 149 (2) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

**MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).**

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone 1 – Walsh Bay Conservation Zone – Sydney Regional Environmental Plan 16.

(1) The objectives of this zone are:

- (a) To allow an appropriate range of uses to encourage the adaptive re-use of existing structures while not required for commercial port uses;
- (b) To ensure that development is consistent with the heritage significance, the scale, the built form and the materials of existing structures in the zone and adjoining areas;
- (c) To ensure that development is compatible with and does not detract from the financial, commercial and retail functions of the existing city central business district functions and the Sydney Cove Redevelopment Area; and
- (d) To ensure that development is compatible with and does not adversely impact on the residential amenity and function of the adjoining areas.

(2) Without Development Consent

Nil

(3) Only with Development Consent

Any purpose other than a purpose included in item (2) or (4)

(4) Prohibited

Bus depots, bus stations, car repair stations, gas holders, generating works, helipads, heliports, industries (other than home industries and light industries), institutions, junk yards, liquid fuel depots, marinas, mines, roadside stalls, road transport terminals, sawmills.

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

Sydney Harbour Foreshores and Waterways Area Development Control Plan 2005 (commenced 28.09.2005) – This DCP applies to all development proposals within the Foreshores and Waterways Area identified in SREP (Sydney Harbour Catchment) 2005 (refer to the Foreshores and Waterways Area map)

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

HERITAGE

Walsh Bay Conservation Zone

A person shall not, in respect of the Walsh Bay Conservation Zone: demolish or alter a building or work within the Zone; damage or remove a relic, including excavation for the purpose of exposing or removing a relic, within the Zone; damage or despoil a place within the Zone; erect a building on or subdivide land within the Zone; or damage any tree within the Zone, except with the consent of the consent authority.

State Heritage Register (Amendment to Heritage Act, 1977, gazetted 2/4/99)

This property is identified as being of state significance and has been entered on the State Heritage Register. Unless the proposed work is exempt under the Heritage Office Standard Exemptions or is covered by site specific exemptions, an applicant must seek an integrated development approval from Council and as such the proposal will be referred to the Heritage Council. If major changes are proposed the Heritage Council may require the applicant to prepare a conservation management plan in accordance with the NSW Heritage Manual Guidelines. For further information please contact the Heritage Office (02) 9873 8500 or alternatively online www.heritage.nsw.gov.au.

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 1 – Development Standards

This policy makes development standards more flexible. It allows Council to approve a development proposal that does not comply with a set standard where this can be shown to be unreasonable or unnecessary.

State Environmental Planning Policy No. 4 – Development without Consent and Miscellaneous Complying Development

This policy allows relatively simple or minor changes of land or building use and certain types of development by public authorities without the need for formal development applications. The types of development covered are outlined in the policy.

SREP 16 – Walsh Bay

Clauses 9 & 10 of State Environmental Planning Policy No. 4 do not apply to the land within Sydney Regional Environmental Plan No. 16 – Walsh Bay.

State Environmental Planning Policy No. 6 – Number of Storeys in a Building

This policy sets out a method for determining the number of storeys in a building, to prevent possible confusion arising from the interpretation of various environmental planning instruments.

State Environmental Planning Policy No. 10 – Retention of Low-Cost Accommodation

This policy aims to provide a mechanism for the retention of low-cost rental accommodation. The policy establishes criteria for determining a low-cost rental residential building (including boarding houses, hostels and low rental residential flat buildings), matters for Council consideration and requirements for development proposed under the policy.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas

This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 22 – Shops and Commercial Premises

This policy allows, with the consent of Council, a change of use from a shop to another kind of shop or commercial premises, where the new use is prohibited under an environmental planning instrument.

State Environmental Planning Policy No. 32 – Urban Consolidation

This policy implements the principles of urban consolidation, including the orderly, economic use and development of land. The policy enables urban land which is no longer required for the purpose for which it is currently zoned or used to be redeveloped for multi-unit housing and related development.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land

This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No 60 – Exempt and Complying Development (Gazetted 3.03.00)

Specifies exempt and complying development in certain areas that have not provided for those types of development through a Local Environmental Plan. This is achieved by identifying the development of minimal environmental impact that is to be exempt and identifying development that is to be complying development. The policy also specifies standards for that development, identify complying development separately for metropolitan Sydney and regional areas of New South Wales, specifies conditions for complying development certificates and ensures that development consent is required for the subdivision of land, and the erection of a building or for demolition.

State Environmental Planning Policy No. 64 – Advertising and Signage

This policy aims to ensure that signage (including advertising):

Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Buildings

This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

State Environmental Planning Policy (Major Development) 2005

This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Temporary Structures and Places of Public Entertainment) 2007

This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007

This Policy aims to facilitate the effective delivery of infrastructure across the state.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Repeal of Concurrence and Referral Provisions) 2008

This Policy is an 'amending instrument' that removes or modifies referral and concurrence clauses within local environmental plans (LEPs), regional environmental plans (REPs) and State environmental planning policies (SEPPs).

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009

Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pyrmont

State Environmental Planning Policy (Urban Renewal) 2010

The aims of this Policy are as follows:

- (a) to establish the process for assessing and identifying sites as urban renewal precincts,
- (b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
- (c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011

The aims of this Policy are as follows:

- (a) to identify development that is State significant development,
- (b) to identify development that is State significant infrastructure and critical State significant infrastructure,
- (c) to confer functions on joint regional planning panels to determine development applications.

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment: to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

Sydney Regional Environmental Plan No.16 Walsh Bay (Gazetted 16/06/89, as amended)

This plan provides for the redevelopment of Walsh Bay by encouraging re-use of existing structures, protection of heritage items, control use of waterways & provision of public access to waterfront.

**OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
E. P. & A. REGULATION, 2000. CLAUSES (3) - (10)**

(3) Complying Development

- (1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clause 1.17A and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.
- (2) If complying development may not be carried out on that land because of the provisions of clause 1.17A and 1.19 of that Policy, the reasons why it may not be carried out under that clause.

Note: All Exempt and Complying Development Codes : Clause 1.17A(a) Development that requires concurrence of a person other than the consent authority, or the Director General of the Department of Environment, Climate Change and Water is **not** complying development.

General Housing Code

Complying development **may not** be carried out on the land under the General Housing Code if because of the provisions of clause 1.17A & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

▪ Clause 1.17A(b). Has been identified as land that is a critical habitat.	NO
▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the <i>Heritage Act 1977</i> or that is subject to an interim heritage order under the <i>Heritage Act 1977</i> .	YES
▪ Clause 1.17A(d) & 1.19(3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item.	NO
▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the <i>Wilderness Act 1987</i> .	NO
▪ Clause 1.17A(e) & 1.19(1). Has been identified as land that is within an environmentally sensitive area.	NO
▪ Clause 1.19(6)a. Has been identified as being within a heritage conservation area or a draft heritage conservation area.	YES
▪ Clause 1.19(6)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument.	NO
▪ Clause 1.19(6)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2.	YES
▪ Clause 1.19(6)d. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003.	NO
▪ Clause 1.19 (6)e. Has been identified as being excluded land identified by an environmental planning instrument.	NO
▪ Clause 1.19(6)f. Has been identified as being land in a foreshore area.	YES
▪ Clause 1.19(6)g. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour.	NO
▪ Clause 1.19(6)h. Has been identified as unsewered land within a drinking water catchment.	NO
▪ Clause 1.19(6)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998.	NO

Housing Alterations Code

Complying development under the Housing Alterations Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

General Commercial and Industrial Code

Complying development under the General Commercial and Industrial Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Subdivisions Code

Complying development under the Subdivisions Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Rural Housing Code

The Rural Housing Code does not apply to this Local Government Area.

General Development Code

Complying development under the General Development Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Demolition Code

Complying development under the Demolition Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

(4) Coastal Protection Act, 1979

The council has not been notified by the department of public works that the land is affected by the operation of section 38 or 39 of the coastal protection act, 1979.

(4A) Certain information relating to beaches and coasts

(1) In relation to a coastal council an order has **not** been made under Part 4D of the coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land).

(2) In relation to a coastal council : Council has **not** been notified under section 55X of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land)

(4B) Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This land has not been proclaimed to be a mine subsidence district within the meaning of section 15 of the mine subsidence compensation act, 1961.

(6) Road Widening and/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is not** affected by any road widening or road realignment under any planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

(a) The land **is not** affected by a policy adopted by the Council that that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

(b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

The development on this land or part of this land is not subject to flood related development controls.

(8) Land reserved for acquisition

No environmental planning instrument, or proposed environmental planning instrument applying to the land, provides for the acquisition of the land by a public authority, as referred to in section 27 of the Act.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

▪ Central Sydney Contributions (Amendment) Plan 2002 – in operation 16 th June 2003	NO
▪ Ultimo Pyrmont Section 94 Contributions Plan (approved C.S.P.C 15 th December 1994 and Council 19 th December 1994)	NO
▪ City of Sydney Development Contributions Plan 2006 – in operation 7 th April 2007	NO
▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16 th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16 th May 2007	NO

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biobanking Agreement

Council has not been notified of a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

(13) Orders under Trees (Disputes Between Neighbours) Act 2006

Council has not been notified of an order which has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 149(2) INFORMATION:

Information provided in accordance with planning certificate section 149 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

**PLANNING CERTIFICATE UNDER SECTION 149 (5) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

PLANNING CERTIFICATE SECTION 149 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Contaminated Land Potential:

Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 149 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:

The City of Sydney Local Environmental Plan 2012 incorporates Acid Sulfate soil maps. Development on the land identified in those maps should have regard to Division 4 clause 7.16 of the LEP.

Construction Noise and View Loss Advice:

Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

City of Sydney Tree Preservation Order 2004 (TPO)

This order applies to all land where South Sydney Local Environmental Plan 1998 applies and the City of Sydney Council or the Central Sydney Planning Committee is the relevant consent authority under the *Environmental Planning & Assessment Act 1979*. Contact Council's Contract and Asset Management section for more information.

Outstanding Notice & Order information

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order of type 6, 10, 11 under Section 121B of the *Environmental Planning and Assessment Act, 1979*). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

Resident & Visitor Parking Permit Schemes Restriction

Owners and occupiers of this address are **not eligible** to participate in the resident and visitor permit parking schemes.

The Minister is the Consent Authority

The Minister is the consent authority where development has a capital investment value of more than \$10 million. (State Environmental Planning Policy (Major Projects))

Sydney Harbour Foreshore Authority Act 1998

The provisions of the Sydney Harbour Foreshore Authority Act 1998 apply to the subject land.

For more information, contact the Property Officer at Sydney Harbour Foreshore Authority on telephone (02) 9240 8500.

ADVICE FROM OTHER BODIES

Sydney Ports Corporation Advice

Some land in the City of Sydney located in the vicinity of the White Bay, Glebe Island and Darling Harbour ports may be affected by noise from port operations.

Advice provided in accordance with planning certificate section 149 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 149 (6) of the Environmental Planning and Assessment Act, 1979).

For information regarding outstanding notices and orders a CERTIFICATE FOR OUTSTANDING NOTICES OF INTENTION AND/OR AN ORDER UNDER SECTION 735A OF THE LOCAL GOVERNMENT ACT, 1993 AND SECTION 1212P OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979 may be applied for at Sydney City Council.

Planning certificate section 149 (2), local planning controls are available for inspection at the following locations:

General Enquiries :

Telephone: 02 9265 9333

Facsimile: 02 9265 9415

Town Hall House

Level 2,
Town Hall House,
456 Kent Street,
Sydney.
8am – 6pm, Monday - Friday

Glebe Customer Service Centre

Glebe Library,
186 Glebe Point Road,
Glebe
9am – 5pm, Monday – Friday

Neighbourhood Service Centre Kings Cross

50 Darlinghurst Road,
Potts Point
9am – 5pm, Monday – Friday
9am – 12pm, Saturday

Neighbourhood Service Centre Redfern

158 Redfern Street
Redfern
9am-5pm Monday – Friday
9am – 12 Noon Saturday

Green Square Customer Service Centre

The Tote,
100 Joynton Avenue,
Zetland
10am-6pm Monday – Friday

State planning controls are available for inspection at the following locations:

Sydney Harbour Foreshore Authority (former Sydney Cove Authority and Darling Harbour Authority),
Level 6,
66 Harrington Street,
The Rocks.

Department of Planning & Infrastructure Information Centre
23-33 Bridge Street,
Sydney NSW 2000

Where planning certificate section 149 (5) matters are supplied, complete details are available by writing to:

*Chief Executive Officer,
City of Sydney,
G.P.O. Box 1591,
Sydney, NSW 2000*

End of Document

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000
Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au
GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au



JULIA NICHOLSON
JBS ENVIRONMENTAL PTY LTD
LEVEL 1 50 MARGARET ST
SYDNEY NSW 2000

PLANNING CERTIFICATE

Under Section 149 of the Environmental Planning and Assessment Act, 1979

Applicant:	JBS ENVIRONMENTAL PTY LTD
Applicant's reference:	JBS & G
Address of property:	15 Hickson Road , DAWES POINT NSW 2000
Owner:	WATERWAYS AUTHORITY
Description of land:	Lot 65 DP 1048377
Certificate No.:	2014300874
Certificate Date:	14/02/14
Receipt No:	5018824
Fee:	\$80.00
Paid:	14/02/14

Title information, description, dimensions and area of land are provided from data supplied by the Valuer General and shown where available.

Issuing Officer
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:

Ph: 9265 9333
Fax: 9265 9415

Sydney2030 Green/Global/Connected

**PLANNING CERTIFICATE UNDER SECTION 149 (2) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

**MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).**

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone 1 – Walsh Bay Conservation Zone – Sydney Regional Environmental Plan 16.

(1) The objectives of this zone are:

- (a) To allow an appropriate range of uses to encourage the adaptive re-use of existing structures while not required for commercial port uses;
- (b) To ensure that development is consistent with the heritage significance, the scale, the built form and the materials of existing structures in the zone and adjoining areas;
- (c) To ensure that development is compatible with and does not detract from the financial, commercial and retail functions of the existing city central business district functions and the Sydney Cove Redevelopment Area; and
- (d) To ensure that development is compatible with and does not adversely impact on the residential amenity and function of the adjoining areas.

(2) Without Development Consent

Nil

(3) Only with Development Consent

Any purpose other than a purpose included in item (2) or (4)

(4) Prohibited

Bus depots, bus stations, car repair stations, gas holders, generating works, helipads, heliports, industries (other than home industries and light industries), institutions, junk yards, liquid fuel depots, marinas, mines, roadside stalls, road transport terminals, sawmills.

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

Sydney Harbour Foreshores and Waterways Area Development Control Plan 2005 (commenced 28.09.2005) – This DCP applies to all development proposals within the Foreshores and Waterways Area identified in SREP (Sydney Harbour Catchment) 2005 (refer to the Foreshores and Waterways Area map)

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

HERITAGE

Walsh Bay Conservation Zone

A person shall not, in respect of the Walsh Bay Conservation Zone: demolish or alter a building or work within the Zone; damage or remove a relic, including excavation for the purpose of exposing or removing a relic, within the Zone; damage or despoil a place within the Zone; erect a building on or subdivide land within the Zone; or damage any tree within the Zone, except with the consent of the consent authority.

State Heritage Register (Amendment to Heritage Act, 1977, gazetted 2/4/99)

This property is identified as being of state significance and has been entered on the State Heritage Register. Unless the proposed work is exempt under the Heritage Office Standard Exemptions or is covered by site specific exemptions, an applicant must seek an integrated development approval from Council and as such the proposal will be referred to the Heritage Council. If major changes are proposed the Heritage Council may require the applicant to prepare a conservation management plan in accordance with the NSW Heritage Manual Guidelines. For further information please contact the Heritage Office (02) 9873 8500 or alternatively online www.heritage.nsw.gov.au.

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 1 – Development Standards

This policy makes development standards more flexible. It allows Council to approve a development proposal that does not comply with a set standard where this can be shown to be unreasonable or unnecessary.

State Environmental Planning Policy No. 4 – Development without Consent and Miscellaneous Complying Development

This policy allows relatively simple or minor changes of land or building use and certain types of development by public authorities without the need for formal development applications. The types of development covered are outlined in the policy.

SREP 16 – Walsh Bay

Clauses 9 & 10 of State Environmental Planning Policy No. 4 do not apply to the land within Sydney Regional Environmental Plan No. 16 – Walsh Bay.

State Environmental Planning Policy No. 6 – Number of Storeys in a Building

This policy sets out a method for determining the number of storeys in a building, to prevent possible confusion arising from the interpretation of various environmental planning instruments.

State Environmental Planning Policy No. 10 – Retention of Low-Cost Accommodation

This policy aims to provide a mechanism for the retention of low-cost rental accommodation. The policy establishes criteria for determining a low-cost rental residential building (including boarding houses, hostels and low rental residential flat buildings), matters for Council consideration and requirements for development proposed under the policy.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas

This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 22 – Shops and Commercial Premises

This policy allows, with the consent of Council, a change of use from a shop to another kind of shop or commercial premises, where the new use is prohibited under an environmental planning instrument.

State Environmental Planning Policy No. 32 – Urban Consolidation

This policy implements the principles of urban consolidation, including the orderly, economic use and development of land. The policy enables urban land which is no longer required for the purpose for which it is currently zoned or used to be redeveloped for multi-unit housing and related development.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development

This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land

This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No 60 – Exempt and Complying Development (Gazetted 3.03.00)

Specifies exempt and complying development in certain areas that have not provided for those types of development through a Local Environmental Plan. This is achieved by identifying the development of minimal environmental impact that is to be exempt and identifying development that is to be complying development. The policy also specifies standards for that development, identify complying development separately for metropolitan Sydney and regional areas of New South Wales, specifies conditions for complying development certificates and ensures that development consent is required for the subdivision of land, and the erection of a building or for demolition.

State Environmental Planning Policy No. 64 – Advertising and Signage

This policy aims to ensure that signage (including advertising):

Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Buildings

This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

State Environmental Planning Policy (Major Development) 2005

This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007

This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Temporary Structures and Places of Public Entertainment) 2007

This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007

This Policy aims to facilitate the effective delivery of infrastructure across the state.

NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Repeal of Concurrence and Referral Provisions) 2008

This Policy is an 'amending instrument' that removes or modifies referral and concurrence clauses within local environmental plans (LEPs), regional environmental plans (REPs) and State environmental planning policies (SEPPs).

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009

Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pymont

State Environmental Planning Policy (Urban Renewal) 2010

The aims of this Policy are as follows:

- (a) to establish the process for assessing and identifying sites as urban renewal precincts,
- (b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
- (c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011

The aims of this Policy are as follows:

- (a) to identify development that is State significant development,
- (b) to identify development that is State significant infrastructure and critical State significant infrastructure,
- (c) to confer functions on joint regional planning panels to determine development applications.

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005

This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment: to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

Sydney Regional Environmental Plan No.16 Walsh Bay (Gazetted 16/06/89, as amended)

This plan provides for the redevelopment of Walsh Bay by encouraging re-use of existing structures, protection of heritage items, control use of waterways & provision of public access to waterfront.

**OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 -
E. P. & A. REGULATION, 2000. CLAUSES (3) - (10)**

(3) Complying Development

- (1) Whether or not the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clause 1.17A and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.
- (2) If complying development may not be carried out on that land because of the provisions of clause 1.17A and 1.19 of that Policy, the reasons why it may not be carried out under that clause.

Note: All Exempt and Complying Development Codes : Clause 1.17A(a) Development that requires concurrence of a person other than the consent authority, or the Director General of the Department of Environment, Climate Change and Water is **not** complying development.

General Housing Code

Complying development **may not** be carried out on the land under the General Housing Code if because of the provisions of clause 1.17A & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

▪ Clause 1.17A(b). Has been identified as land that is a critical habitat.	NO
▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the <i>Heritage Act 1977</i> or that is subject to an interim heritage order under the <i>Heritage Act 1977</i> .	YES
▪ Clause 1.17A(d) & 1.19(3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item.	NO
▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the <i>Wilderness Act 1987</i> .	NO
▪ Clause 1.17A(e) & 1.19(1). Has been identified as land that is within an environmentally sensitive area.	NO
▪ Clause 1.19(6)a. Has been identified as being within a heritage conservation area or a draft heritage conservation area.	YES
▪ Clause 1.19(6)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument.	NO
▪ Clause 1.19(6)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2.	YES
▪ Clause 1.19(6)d. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003.	NO
▪ Clause 1.19 (6)e. Has been identified as being excluded land identified by an environmental planning instrument.	NO
▪ Clause 1.19(6)f. Has been identified as being land in a foreshore area.	YES
▪ Clause 1.19(6)g. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour.	NO
▪ Clause 1.19(6)h. Has been identified as unsewered land within a drinking water catchment.	NO
▪ Clause 1.19(6)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998.	NO

Housing Alterations Code

Complying development under the Housing Alterations Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

General Commercial and Industrial Code

Complying development under the General Commercial and Industrial Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Subdivisions Code

Complying development under the Subdivisions Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Rural Housing Code

The Rural Housing Code does not apply to this Local Government Area.

General Development Code

Complying development under the General Development Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

Demolition Code

Complying development under the Demolition Code **may not** be carried out on the land.

Reason why:

Refer to 1.17A State Environmental Planning Policy (Except and Complying Development Codes) 2008:

clause 1.17A(d) applies

(4) Coastal Protection Act, 1979

The council has not been notified by the department of public works that the land is affected by the operation of section 38 or 39 of the coastal protection act, 1979.

(4A) Certain information relating to beaches and coasts

(1) In relation to a coastal council an order has **not** been made under Part 4D of the coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land).

(2) In relation to a coastal council : Council has **not** been notified under section 55X of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land)

(4B) Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This land has not been proclaimed to be a mine subsidence district within the meaning of section 15 of the mine subsidence compensation act, 1961.

(6) Road Widening and/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is not** affected by any road widening or road realignment under any planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

(a) The land **is not** affected by a policy adopted by the Council that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

(b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

The development on this land or part of this land is not subject to flood related development controls.

(8) Land reserved for acquisition

No environmental planning instrument, or proposed environmental planning instrument applying to the land, provides for the acquisition of the land by a public authority, as referred to in section 27 of the Act.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

▪ Central Sydney Contributions (Amendment) Plan 2002 – in operation 16 th June 2003	NO
▪ Ultimo Pyrmont Section 94 Contributions Plan (approved C.S.P.C 15 th December 1994 and Council 19 th December 1994)	NO
▪ City of Sydney Development Contributions Plan 2006 – in operation 7 th April 2007	NO
▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16 th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16 th May 2007	NO

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biobanking Agreement

Council has not been notified of a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

(13) Orders under Trees (Disputes Between Neighbours) Act 2006

Council has not been notified of an order which has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 149(2) INFORMATION:

Information provided in accordance with planning certificate section 149 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

**PLANNING CERTIFICATE UNDER SECTION 149 (5) OF THE ENVIRONMENTAL
PLANNING AND ASSESSMENT ACT, 1979**

PLANNING CERTIFICATE SECTION 149 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Contaminated Land Potential:

Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 149 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:

The City of Sydney Local Environmental Plan 2012 incorporates Acid Sulfate soil maps. Development on the land identified in those maps should have regard to Division 4 clause 7.16 of the LEP.

Construction Noise and View Loss Advice:

Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

City of Sydney Tree Preservation Order 2004 (TPO)

This order applies to all land where South Sydney Local Environmental Plan 1998 applies and the City of Sydney Council or the Central Sydney Planning Committee is the relevant consent authority under the *Environmental Planning & Assessment Act 1979*. Contact Council's Contract and Asset Management section for more information.

Outstanding Notice & Order information

In relation to this property, there is **not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order of type 6, 10, 11 under Section 121B of the *Environmental Planning and Assessment Act, 1979*). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

In relation to this property, there is **not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under Section 121ZP of the *Environmental Planning and Assessment Act* and Section 735A of the *Local Government Act*.

Resident & Visitor Parking Permit Schemes Restriction

Owners and occupiers of this address are **not eligible** to participate in the resident and visitor permit parking schemes.

Sydney Harbour Foreshore Authority Act 1998

The provisions of the Sydney Harbour Foreshore Authority Act 1998 apply to the subject land. For more information, contact the Property Officer at Sydney Harbour Foreshore Authority on telephone (02) 9240 8500.

ADVICE FROM OTHER BODIES

Sydney Ports Corporation Advice

Some land in the City of Sydney located in the vicinity of the White Bay, Glebe Island and Darling Harbour ports may be affected by noise from port operations.

Advice provided in accordance with planning certificate section 149 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 149 (6) of the Environmental Planning and Assessment Act, 1979).

For information regarding outstanding notices and orders a CERTIFICATE FOR OUTSTANDING NOTICES OF INTENTION AND/OR AN ORDER UNDER SECTION 735A OF THE LOCAL GOVERNMENT ACT, 1993 AND SECTION 1212P OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979 may be applied for at Sydney City Council.

Planning certificate section 149 (2), local planning controls are available for inspection at the following locations:

General Enquiries :

Telephone: 02 9265 9333

Facsimile: 02 9265 9415

Town Hall House

Level 2,
Town Hall House,
456 Kent Street,
Sydney.
8am – 6pm, Monday - Friday

Glebe Customer Service Centre

Glebe Library,
186 Glebe Point Road,
Glebe
9am – 5pm, Monday – Friday

Neighbourhood Service Centre Kings Cross

50 Darlinghurst Road,
Potts Point
9am – 5pm, Monday – Friday
9am – 12pm, Saturday

Neighbourhood Service Centre Redfern

158 Redfern Street
Redfern
9am-5pm Monday – Friday
9am – 12 Noon Saturday

Green Square Customer Service Centre

The Tote,
100 Joynton Avenue,
Zetland
10am-6pm Monday – Friday

State planning controls are available for inspection at the following locations:

Sydney Harbour Foreshore Authority (former Sydney Cove Authority and Darling Harbour Authority),
Level 6,
66 Harrington Street,
The Rocks.

Department of Planning & Infrastructure Information Centre
23-33 Bridge Street,
Sydney NSW 2000

Where planning certificate section 149 (5) matters are supplied, complete details are available by writing to:

*Chief Executive Officer,
City of Sydney,
G.P.O. Box 1591,
Sydney, NSW 2000*

End of Document

Appendix G WorkCover NSW Dangerous Goods Database Search Results



**Trade &
Investment**
Arts NSW

Dangerous Goods Licensing
WorkCover NSW
Locked Bag 2906
LISAROW NSW 2252

To whom it may concern

I, Marianna Preston of Arts NSW (current property owner), hereby authorise JBS&G to undertake a 'Site Search for License to Keep Dangerous Goods' for the property located at Pier 2/3 - Lot 11 DP 1138931, Pier 2/3 Shore Sheds – Lot 24 DP 1071597 and Wharf 4/5 - Lot 65 in DP 1048377. The information is required by JBS&G in the preparation of an Environmental Site Assessment report for the property.

If you have any queries relating to the property or require further information please do not hesitate to contact me on marianna.preston@arts.nsw.gov.au or by phone on 02 9995 0502.

Kind regards

Marianna Preston
Director, Infrastructure

Date: 11 Feb 2014.

CONTACT FOR NOTIFICATION INQUIRIES

Title: Mr / Miss / Ms / Mrs / Other (please specify) MR Family name PRESTON
 Given name JOHN Other names EDWARD
 Gender ☒ Male / Female (please circle) Date of birth 01 / 03 / 46 Place of birth GRIFFIN
 Postal address P.O. Box 777
 Suburb Millers Point State NSW Postcode 2000
 Business phone 02 9250 1730 Business fax number 02 9250 1732
 Business email address jpreston@sydneytheatre.com.au

Previous Licence Number or Acknowledgement Number (if known)

35/ 02 7388 / 1/10/06

Previous Occupier (if known)

100-PP
 3-8-06
 467417

Site on which dangerous goods are to be kept

Number Street

4/5 HICKSON ROAD WALSH BAY

Nearest cross Street

POTTINGER STREET

Lot and DP if no street number

Is the site staffed? If yes state number of employees 100

Site staffing: Hours per day 17 Days per week 6

Site Emergency Contact

Phone number

(02) 0414 313 765

Name

MARTYN NIGHTINGALE

Nature of site (eg petrol station, warehouse etc)

PERFORMING ARTS VENUES

Nature of your primary business activity

LIVE PERFORMANCE PRODUCTION

ABN Number (if any)

87 001 667 983

Website details (if any)

WWW.SYDNEYTHEATRE.COM.AU

What is the ANSZIC code most applicable to your business? (see guide for list of codes and further information)

Code

925

Description

LIVE PERFORMANCE PRODUCTION

Attach a site sketch(s) of the premises. Refer to the Guide for information on the requirements for the site sketch.

Attach a photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X

< notifiable units
 1/10/06

IDENTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises. Copy this page and attach additional sheets if there is insufficient space.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
2	Flammable Goods Cabinet	3	250 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
UN 1193		III		ETHYL METHYL KETONE		5	L
UN 1219		III		ISOPROPANOL		2	L
UN 1263		III		PAINT related material		8	L
UN 1300	turps	III		TURPENTINE SUBSTITUTE		20	L

LP
1/1/06

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
2	Flammable Goods Cabinet	3	250 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
UN 1866		II		RESIN SOLUTION		81	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
469	Roofed Store	3-1/2	850 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
UN 1170				ETHANOL		20	L
UN 1263				PAINT		24	L
UN 1263				PAINT		40	L
UN 1300				TURPENTINE SUBSTITUTE		250	L

LP
if mixed PG

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
469	Roofed Store	3-1/2	850 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
UN 1300				TURPENTINE SUBSTITUTE		20	L

340 g.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

No 2 Depot

Paints Workshop

WORKSHOP

Compressed
air lines

Note: For high level lighting
to these areas see A38

Line of cable tray

Existing
Hoist

Chain link
enclosure

RC Soffit to stair

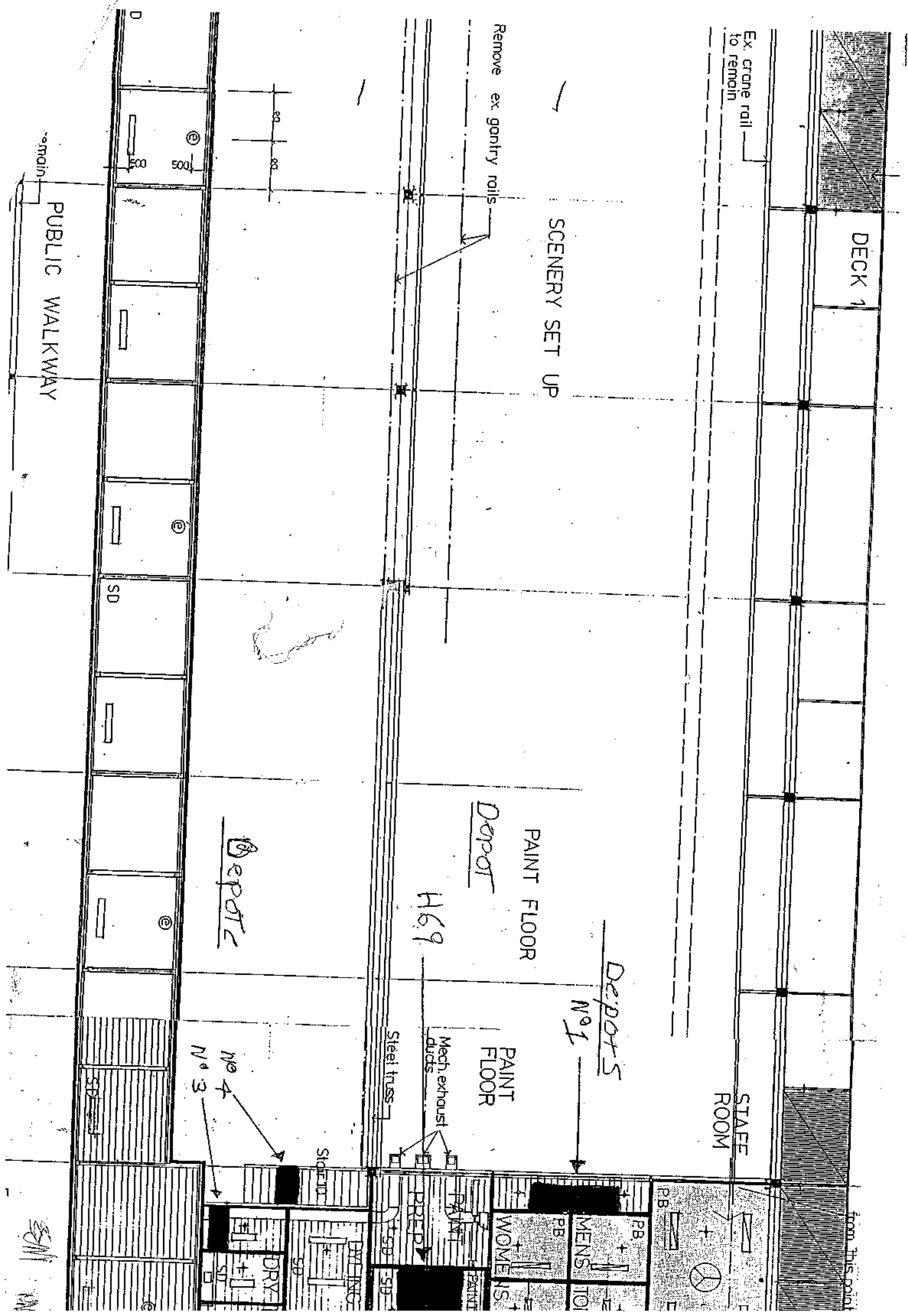
Steel deck exposed
as ceiling

SD

Remove

Ex. cl
to re

Ex. mnt



IDENTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises. Copy this page and attach additional sheets if there is insufficient space.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M³)
Nº1	FLAMMABLE LIQUIDS CABINET	3	850 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M³
1170	ETHYL ALCOHOL		II	ETHANOL		20	L
1263	ZINC RICH KIT		II	PAINT		64	L
1300	TURPS SUBSTITUTE		II	TURPENTINE		270	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M³)
Nº2	FLAMMABLE LIQUIDS CABINET	3	250 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M³
1193	ETHYL KETONE		II	METHYLETHYL KETONE		5	L
1219	ISOPROPANOL		II	ISOPROPYL ALCOHOL		2	L
1263	PAINT		II	PAINT		8	L
1300	TURPS		II	TURPENTINE		20	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M³)
Nº1	FLAMMABLE LIQUIDS CABINET	3	250 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M³
1866	RESIN SOLUTION		II	RESIN		81	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M³)
H69	ROOFED STORE	2 1/2	900 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M³
1263	PAINT		II	WATER BASED		150	L
1263	PAINT		II	AEROSOL		20	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M³)
Nº3	FLAMMABLE LIQUIDS CABINET	3	160 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M³
1263	PAINT		II	DESIGN MASTER		10	L
1950	PAINT	2	II	DESIGN MASTER		10	L

NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises. Copy this page and attach additional sheets if there is insufficient space.

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)
Nº 4	Flammable Liquids Cabinet	3	80 L

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³
1950	DESIGN MASTER	2	II	DESIGN MASTER		8	L
1263	PAINT		II	PAINT		4	L

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³

Identifier	Type of storage location or process	Class	Maximum Storage Capacity (L, kg, M ³)

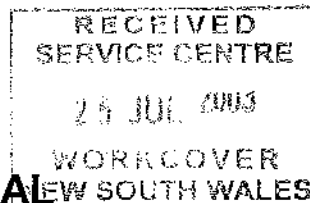
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	HazChem Symbol	Typical Qty	Unit eg L, kg, M ³



Add New FCC
Order file

ORD-2

Licence No. 35/027888



APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/027888 to 15/08/2004. I confirm that all the licence details shown below are correct (amend if necessary).

John Preston
(Signature)

John PRESTON
(Please print name)

3/7/03
(Date signed)

for: SYDNEY THEATRE CO LTD

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
Dangerous Goods Licensing Section
LOCKED BAG 2906
LISAROW NSW 2252

Enquiries:ph (02) 43215500
fax (02) 92875500

Details of licence on 27 June 2003

Licence Number 35/027888 Expiry Date 15/08/2003

Licensee SYDNEY THEATRE CO LTD ACN 001 667 983

Postal Address: P O BOX 777 MILLERS POINT NSW 2000

Licensee Contact JOHN EDWARD PRESTON Ph. 9250 1700 Fax. 9251 3687

Premises Licensed to Keep Dangerous Goods PIER 4
SYDNEY THEATRE CO LTD
HICKSON RD WALSH BAY 2000

Nature of Site PERFORMING ARTS VENUES

Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site JOHN ED PRESTON (0414 007734) Ph: 9250 1730

Site staffing 17 HRS 6 DAYS

MARTYN NIGHTINGALE OH 9313765

02 9250 1724
9250 1700

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
H69	ROOFED STORE	Class 3	850 L
		UN 1170 ETHANOL (ETHYL ALCOHOL)	20 L
		UN 1263 PAINT, (ZINC RICH KIT)	24 L
		UN 1263 PAINT, (ZINC RICH KIT)	40 L
		UN 1300 TURPENTINE SUBSTITUTE	250 L
		UN 1300 TURPENTINE SUBSTITUTE	20 L

Application for Licence to Keep Dangerous Goods

Application for: New Licence ☒ Amendment ☐ Transfer ☐ Renewal of expired licence ☒

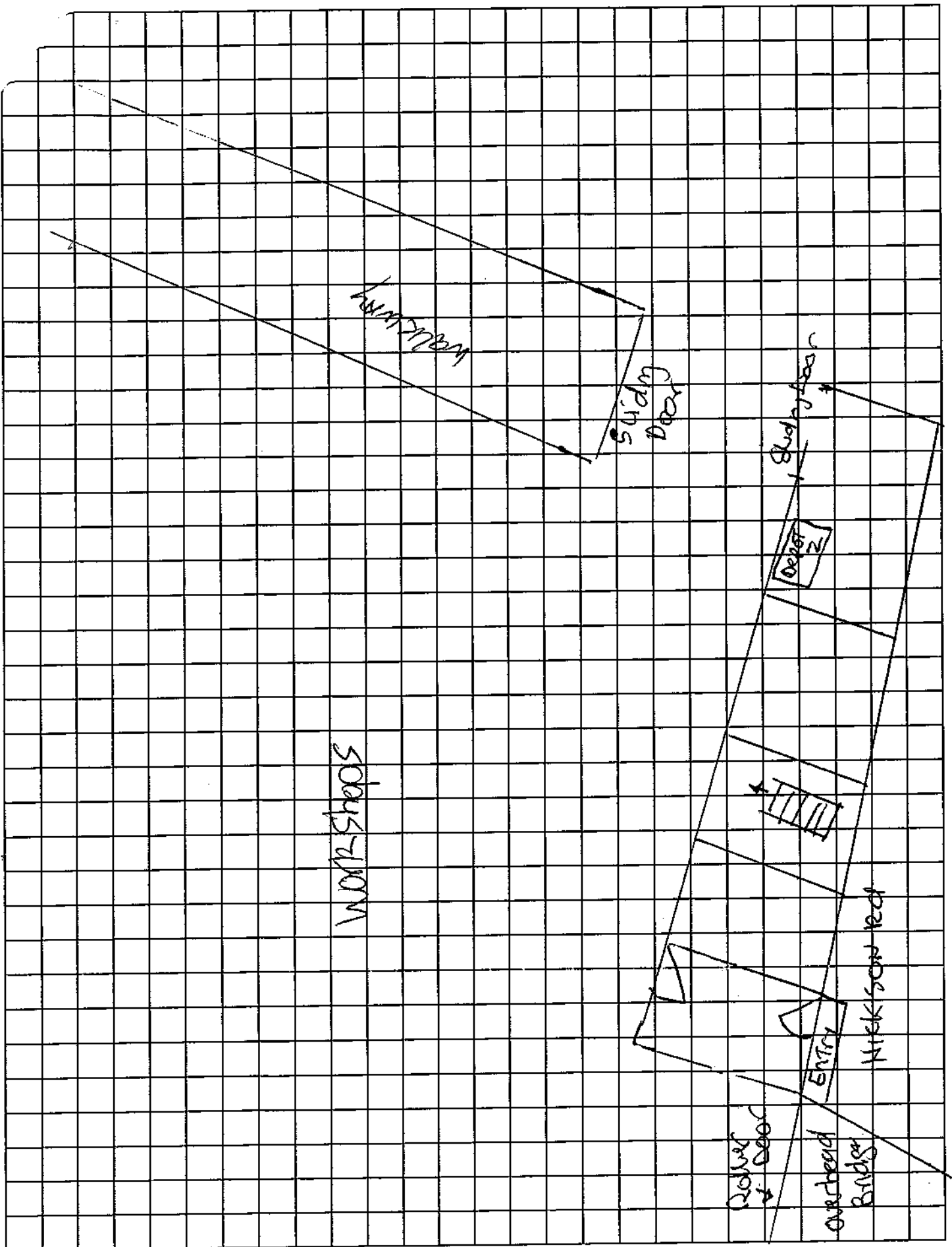
PART A - Applicant and site information (See page 2 of Guidance Notes)

- 1 Name of applicant ACN
Sydney Theatre Company Ltd 001 667 983
- 2 Postal Address of Applicant Suburb/Town Postcode
P.O. Box 777 millers Point 2000
- 3 Trading Name or Site Occupier's Name
Sydney Theatre Company
- 4 Contact for Licence Inquiries
Phone Fax Name
(02) 9250 1730 (02) 9250 1732 JOHN PRESTON
- 5 Previous Licence Number (if known) 35/
- 6 Previous Occupier (if known)
- 7 Site to be Licensed
No Street
Pier 4 Hickson Rd Walsh Bay
- 8 Main Business of Site Performing Arts Venues
- 9 Site staffing: Hours per day 17 Days per week 6
- 10 Site Emergency Contact
Phone Name
(02) 9250 1724-9250-1700 MARTYN NISHTINGALE
- 11 Major Supplier of Dangerous Goods N/A
- 12 If a new site or for amendments to depots - see page 4 of Guidance Notes.
Plans Stamped by: Signature of Competent Person Printed Name Date stamped
N/A

I certify that the details in this application (including any accompanying computer disk) are correct and cover all licensable quantities of dangerous goods kept on the premises.

- 13 Signature of Applicant Printed Name
John E Preston John Edward Preston

Dangerous Goods Licensing,
WorkCover NSW, Locked Bag 2906, LISAROW NSW 2252



Depot? See page 5 of the Guidance Notes

- Dangerous Goods Storage Complete one section per depot

If you have more depots than that space provided, photocopy sufficient sheets first

Depot Number	Type of Depot (see page 5)	Depot Class	Maximum Storage Capacity			
2	Flammable liquids Cabinet	3	250 Lt			

UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	Typical Quantity	Unit eg L, kg, m ³
UN1300	Mineral Turpentine	3	III	Turpentine	20	Lt
1263 LPP	Paints & Thinners	3	II	Brush Wash	8	Lt
2810 1760	Resin	6.1(b)	II	Casting Resin Part A	16	Kg
1760	"	8	III	" " Part D	8	Kg
1866	Polyvinyl Alcohol	3	III	PVA Blue	4	Kg
Free	Resin	2	II	Poly Foaming Resin A	4	Lt
2207	"	6	III	" " " B	4	Lt
-	Foam	3	-	Plast. Foam A	1	Kg
-	"	"	-	" " B	1	Kg
1219	Alcohol Gel	4		130 Propyl Alcohol gel	2	Lt
3105	Methyl Ethyl Ketone			Ketone	5	Kg
1866	Gelcoat	3	III	Polyester Gelcoat	4	Lt
	Hydrochloric Acid			Acid	8	Lt
1866	Flowcoat	3	III	Polyester Flowcoat	4	Lt
1866	Fiber Glass Resin	3	III	Resin	22.44	Kg
1866	Flowcoat	3	3	White Flowcoat	25	Kg
	Multi-purpose thinner	3		Thinners	20	Lt
	Foam			Taxidermist Foam A	5	Kg
	"			" " B	7	Kg



WorkCover New South Wales, 400 Kent Street, Sydney 2000. Telephone 9370 5000 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001

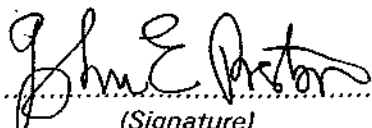
Licence No. 35/027888



APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/027888 to 16/08/2000. I confirm that all the licence details shown below are correct (amend if necessary).


(Signature)

John Edward Preston
(Please print name)

22/7/99
(Date signed)

for: SYDNEY THEATRE CO LTD

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6105

Details of licence on 14 July 1999

Licence Number 35/027888 Expiry Date 16/08/1999

Licensee SYDNEY THEATRE CO LTD ACN 001 667 983

Postal Address: BOX 777 P O MILLERS POINT NSW 2000

Licensee Contact JOHN EDWARD PRESTON Ph.9250 1700 Fax.9251 3687

Premises Licensed to Keep Dangerous Goods PIER 4
SYDNEY THEATRE CO LTD
HICKSON RD WALSH BAY 2000

Nature of Site PERFORMING ARTS VENUES

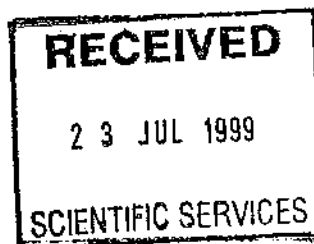
Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site JOHN EDWARD PRESTON Ph.9250 1730 MOB 0914 907734

Site staffing 17 HRS 6 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
H69	ROOFED STORE	Class 3	850 L
		UN 1170 ETHANOL (ETHYL ALCOHOL)	20 L
		UN 1263 PAINT, (ZINC RICH KIT)	24 L
		UN 1263 PAINT, (ZINC RICH KIT)	40 L
		UN 1300 TURPENTINE SUBSTITUTE	250 L
		UN 1300 TURPENTINE SUBSTITUTE	20 L



Form DG10



WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001
Licence No. 35/027888



APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/027888 to 15/08/2001. I confirm that all the licence details shown below are correct (amend if necessary).


(Signature)
for: SYDNEY THEATRE CO LTD

John Edward Preston
(Please print name)

29/6/00
(Date signed)

THIS SIGNED DECLARATION SHOULD BE RETURNED TO: (please do not fax)

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

Details of licence on 27 June 2000

Licence Number 35/027888 Expiry Date 15/08/2000

Licensee SYDNEY THEATRE CO LTD ACN 001 667 983

Postal Address: BOX 777 P O MILLERS POINT NSW 2000

Licensee Contact JOHN EDWARD PRESTON Ph. 9250 1700 Fax. 9251 3687

Premises Licensed to Keep Dangerous Goods PIER 4
SYDNEY THEATRE CO LTD
HICKSON RD WALSH BAY 2000

Nature of Site PERFORMING ARTS VENUES

Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site JOHN ED. PRESTON(0414 907734) Ph. 9250 1730

Site staffing 17 HRS 6 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
H69	ROOFED STORE	Class 3	850 L
		UN 1170 ETHANOL (ETHYL ALCOHOL)	20 L
		UN 1263 PAINT, (ZINC RICH KIT)	24 L
		UN 1263 PAINT, (ZINC RICH KIT)	40 L
		UN 1300 TURPENTINE SUBSTITUTE	250 L
		UN 1300 TURPENTINE SUBSTITUTE	20 L

WORKCOVER AUTHORITY



LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goods Act 1975)

Application for new licence, amendment or transfer

Expiry: 16.8.94

1. Name of applicant		ACN
THE SYDNEY THEATRE COMPANY		001 667 983
2. Site to be licensed	* Pier 4	
No	Street	
16R(4)	HICKSON RD	DATA
Suburb/Town	delete 4 from Street no.	Postcode
WALSH BAY		2000
3. Previous licence number (if known)		35-027888
4. Nature of site		LIVE THEATRE CONSTRUCTION & PERFORMANCE * 9136
5. Emergency contact on site:		
Phone	Name	
* 250-1730 W.Hours.	* John EDWARD PRESTON JP	
6. Site staffing: 70	Hours per day	* 17
	Days per week	* 6
7. Major supplier of dangerous goods		
8. If new site or significant modification		
Plan stamped by:	Accredited consultant's name:	Date stamped
9. Number of dangerous goods depots at site		
1		
10. Trading name or occupier's name		
THE SYDNEY THEATRE COMPANY LTD (delete ctrl-L)		
11. Postal address of applicant		Suburb/Town
* P.O. Box 777		millers point
		Postcode
		2000
12. Contact for licence enquiries:		
Phone	Fax	Name
* 250-1100	* 251-3687	* John EDWARD PRESTON JP
I certify that the details contained in this application (or the accompanying computer disk) are true and correct		
13. Signature of applicant		Date
John E Preston JP		18/5/93

Please complete attached site sketch, depot listing and check sheet (if required) and return to WorkCover Authority in envelope provided.

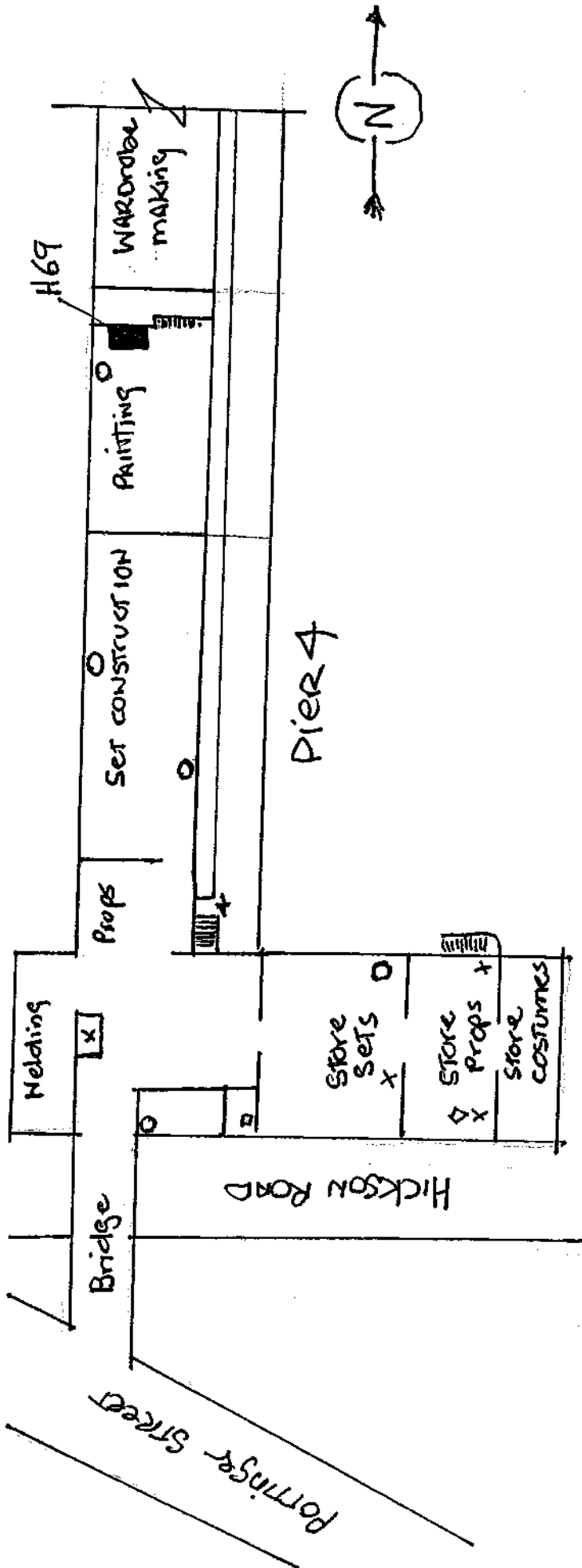
Form DG1

Sent 30/6/93

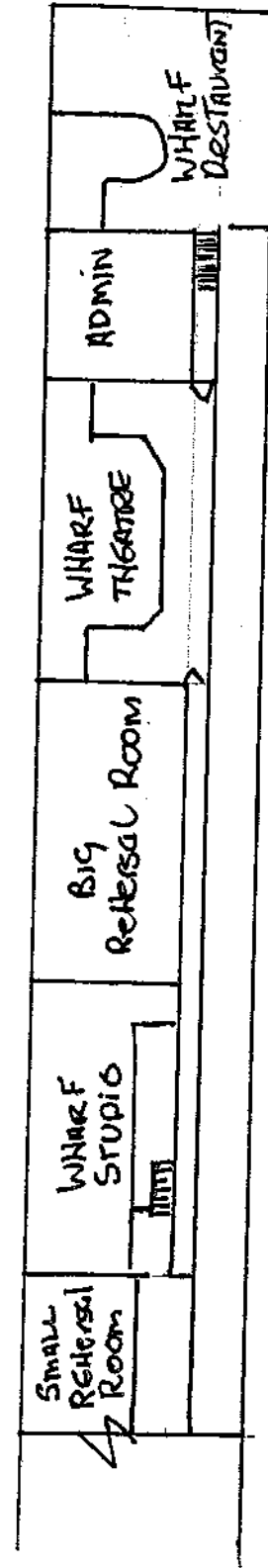
Site Sketch

35-027888

Please carefully read the instructions in Part B of the guide before sketching the site.



PART B



O - Hose reel

X - H2O

^

If you have more depots than the space provided, photocopy sufficient sheets first.

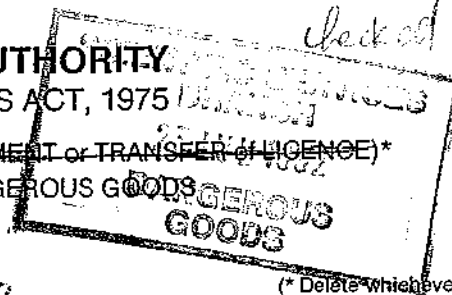
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WORKCOVER AUTHORITY DANGEROUS GOODS ACT, 1975

LICENCE No.

35 027888

APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE)*
FOR THE KEEPING OF DANGEROUS GOODS



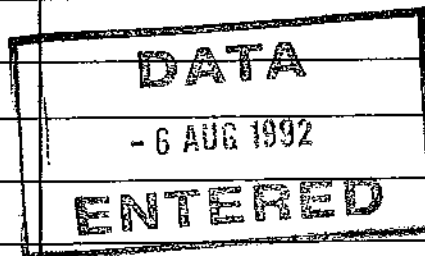
Plan No: 367

(* Delete whichever is not required)

Name of Applicant in full (see item 1 - Explanatory notes - page 4)		
Trading name or occupier's name (if any)	SYDNEY THEATRE COMPANY LTD.	
Postal Address		Postcode
Address of the premises to be licensed. (Including Street No.)	THE WHARF THEATRE PIER 4 HICKSON ST. WASHBAY Postcode 2000	
Nature of premises (See item 2 - Explanatory notes - page 4)	THEATRE, PROPS & PAINT STORE.	
Telephone number of applicant	STD Code	Number

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

Depot number	Type of depot (See item 3 - Explanatory notes - page 4)	Storage capacity	Dangerous goods	C & C Office use only
			Product being stored	
1	INT. FLOW. CABINET	850 L.	Mixed Products Class 3.	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				



Has site plan been approved by the Dangerous Goods Branch?

Yes
☒ No

If yes, no plans required.

If no, please attach site plan, or provide sketch plan overleaf. which has been checked by an accredited consultant

Have premises previously been licensed?

Yes
☒ No

If, yes, state name of previous occupier, and licence No. (if known)

Name of oil company supplying flammable liquid (if applicable).

Various

Signature of applicant

Date

10.7.92

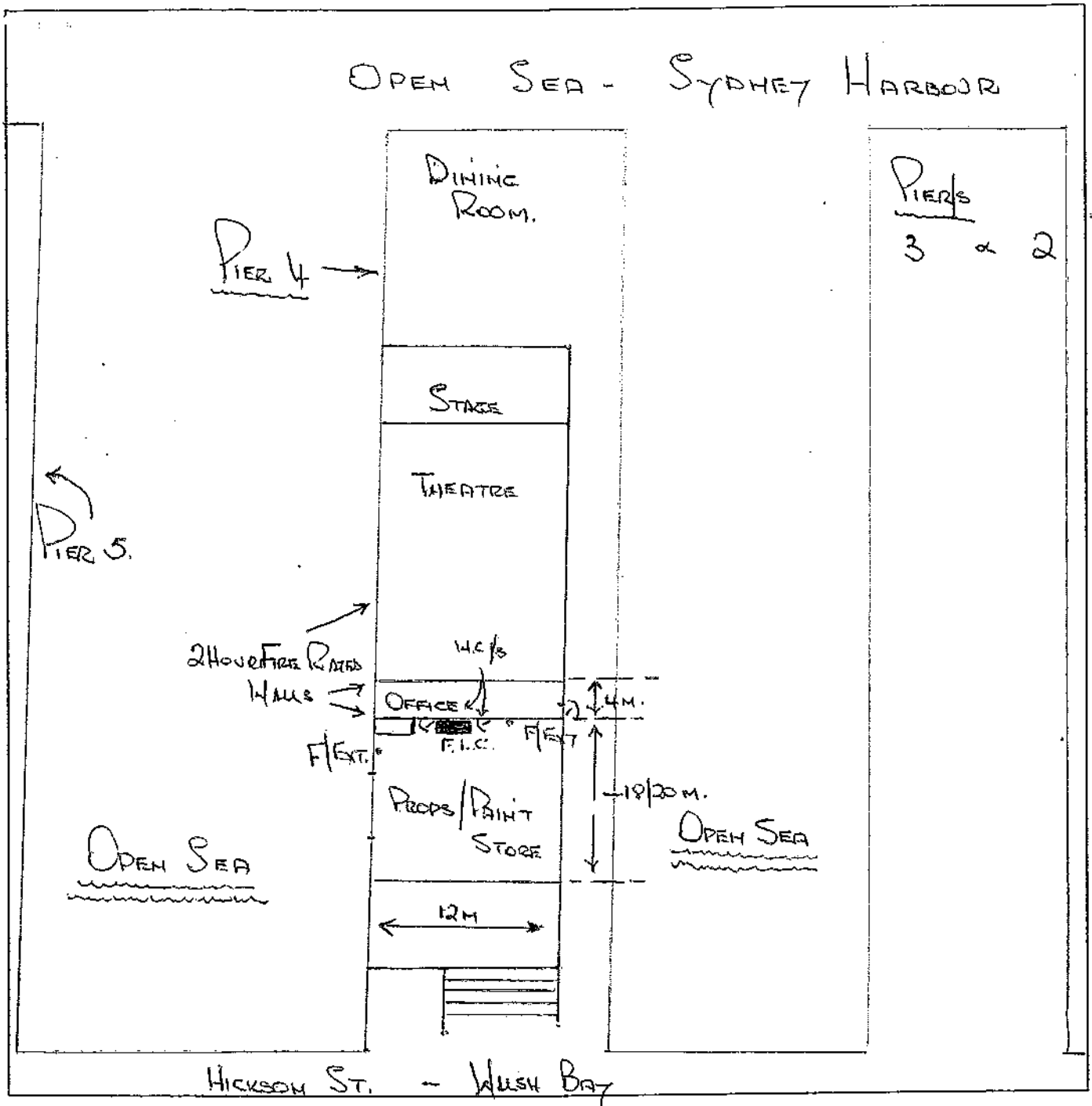
For external explosives magazine(s), please fill in page 3.

FOR OFFICE USE ONLY

CERTIFICATE OF INSPECTION

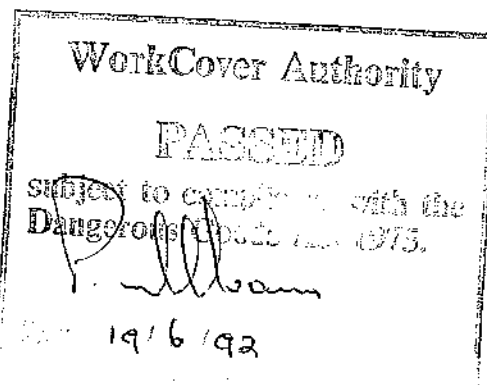
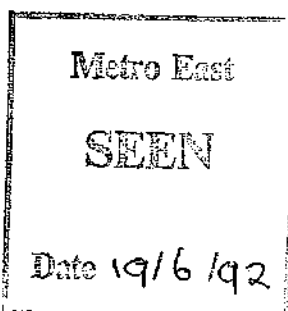
I, being an Inspector under the Dangerous Goods Act, 1975, do hereby certify that the premises described above do comply with the requirements of the Dangerous Goods Act, 1975, and the Dangerous Goods Regulation with regard to their situation and construction for the keeping of dangerous goods of the nature and in the quantity specified.

SKETCH PLAN OF SITE



Show positions of Depot(s) with:-

- (1) distances from public places and protected works;
- (2) street names;
- (3) nature and details of adjacent properties.



Appendix H Laboratory Certificates of Analysis

Certificate of Analysis

JBS & G Australia (NSW & WA) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Rohan Hammond**

Report **531205-S**
Project name WALSH BAY
Project ID 52304
Received Date Jan 20, 2017

Client Sample ID			JBH01_0.24-0.25	JBH03_0.5-0.6	JBH06_0.75-0.85	QA20170119
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S17-Ja11505	S17-Ja11507	S17-Ja11508	S17-Ja11509
Date Sampled			Jan 19, 2017	Jan 19, 2017	Jan 19, 2017	Jan 19, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	260	150
TRH C29-C36	50	mg/kg	< 50	< 50	66	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	326	150
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	125	123	122	123
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	4.2	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			JBH01_0.24-0.25	JBH03_0.5-0.6	JBH06_0.75-0.85	QA20170119
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S17-Ja11505	S17-Ja11507	S17-Ja11508	S17-Ja11509
Date Sampled			Jan 19, 2017	Jan 19, 2017	Jan 19, 2017	Jan 19, 2017
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	0.5	< 0.5	0.8	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Fluorobenzene (surr.)	1	%	111	111	108	110
4-Bromofluorobenzene (surr.)	1	%	125	123	122	123
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	7.8	5.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	7.8	5.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	7.8	5.6
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	3.2	1.0
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	6.6	4.3
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	5.3	3.8
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	5.1	4.5

Client Sample ID			JBH01_0.24-0.25	JBH03_0.5-0.6	JBH06_0.75-0.85	QA20170119
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S17-Ja11505	S17-Ja11507	S17-Ja11508	S17-Ja11509
Date Sampled			Jan 19, 2017	Jan 19, 2017	Jan 19, 2017	Jan 19, 2017
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	2.6	2.1
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	4.0	2.1
Chrysene	0.5	mg/kg	< 0.5	< 0.5	5.1	3.2
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	16	6.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	2.3	1.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	14	1.0
Pyrene	0.5	mg/kg	< 0.5	< 0.5	13	6.8
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	79.6	37.2
2-Fluorobiphenyl (surr.)	1	%	92	92	89	91
p-Terphenyl-d14 (surr.)	1	%	94	89	86	89
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Dibutylchlorodate (surr.)	1	%	57	59	80	116
Tetrachloro-m-xylene (surr.)	1	%	81	78	90	92
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			JBH01_0.24-0.25	JBH03_0.5-0.6	JBH06_0.75-0.85	QA20170119
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S17-Ja11505	S17-Ja11507	S17-Ja11508	S17-Ja11509
Date Sampled			Jan 19, 2017	Jan 19, 2017	Jan 19, 2017	Jan 19, 2017
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	84	93	83	80
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	57	59	80	116
Tetrachloro-m-xylene (surr.)	1	%	81	78	90	92
Semivolatile Chlorinated Hydrocarbons						
1,2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4,5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorocyclopentadiene	1	mg/kg	< 1	< 1	< 1	< 1
Hexachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Nitrobenzene-d5 (surr.)	1	%	85	89	85	87
p-Terphenyl-d14 (surr.)	1	%	94	89	86	89
2-Fluorobiphenyl (surr.)	1	%	92	92	89	91

Client Sample ID			JBH01_0.24-0.25	JBH03_0.5-0.6	JBH06_0.75-0.85	QA20170119
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S17-Ja11505	S17-Ja11507	S17-Ja11508	S17-Ja11509
Date Sampled			Jan 19, 2017	Jan 19, 2017	Jan 19, 2017	Jan 19, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	330	200
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	3.7	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	< 5	5.0	6.8
Copper	5	mg/kg	52	21	89	26
Lead	5	mg/kg	120	14	42	170
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	< 5	7.9	< 5
Zinc	5	mg/kg	150	20	52	81
% Moisture	1	%	17	10.0	15	16

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: TRH C6-C36 - LTM-ORG-2010	Sydney	Jan 24, 2017	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 23, 2017	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 24, 2017	14 Day
BTEX - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 23, 2017	14 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jan 23, 2017	7 Days
Polycyclic Aromatic Hydrocarbons - Method: E007 Polyaromatic Hydrocarbons (PAH)	Sydney	Jan 24, 2017	14 Day
Organochlorine Pesticides - Method: E013 Organochlorine Pesticides (OC)	Sydney	Jan 24, 2017	14 Day
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	Jan 24, 2017	14 Day
Polychlorinated Biphenyls - Method: E013 Polychlorinated Biphenyls (PCB)	Sydney	Jan 24, 2017	28 Day
Semivolatile Chlorinated Hydrocarbons - Method: E017 Semivolatile Chlorinated Hydrocarbons	Sydney	Jan 24, 2017	14 Day
Metals M8 - Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS	Sydney	Jan 23, 2017	28 Day
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Jan 20, 2017	14 Day

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
 Sydney
 NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531205
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
Perth Laboratory - NATA Site # 18217																	
Internal Laboratory																	
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
JBH01_0.24-0.25	Jan 19, 2017		Soil	S17-Ja11505	X		X	X	X	X	X	X	X	X	X	X	X
JBH02_0.6-0.7	Jan 19, 2017		Soil	S17-Ja11506		X											
JBH03_0.5-0.6	Jan 19, 2017		Soil	S17-Ja11507	X		X	X	X	X	X	X	X	X	X	X	X
JBH06_0.75-0.85	Jan 19, 2017		Soil	S17-Ja11508	X		X	X	X	X	X	X	X	X	X	X	X
QA20170119	Jan 19, 2017		Soil	S17-Ja11509	X		X	X	X	X	X	X	X	X	X	X	X
TB20170120	Jan 20, 2017		Water	S17-Ja11510									X				
TS20170120	Jan 20, 2017		Water	S17-Ja11511									X				
RB20170120	Jan 20, 2017		Water	S17-Ja11512			X					X		X	X		X

Company Name: JBS & G Australia (NSW & WA) P/L
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Sample Detail	Asbestos Absence / Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 18217												
Test Counts	4	1	5	4	4	4	5	6	5	5	4	5

Internal Quality Control Review and Glossary

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 LORs are matrix dependant. Quoted LORs 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 Advice.

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 RPD

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

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 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Semivolatile Chlorinated Hydrocarbons							
1,2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1,2,4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1,2,4,5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1,3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1,4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 1			1	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	122			70-130	Pass	
Toluene	%	115			70-130	Pass	
Ethylbenzene	%	119			70-130	Pass	
m&p-Xylenes	%	118			70-130	Pass	
o-Xylene	%	119			70-130	Pass	
Xylenes - Total	%	118			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	126			70-130	Pass	
1.1-Dichloroethene	%	124			70-130	Pass	
1.1.1-Trichloroethane	%	114			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	91			70-130	Pass	
1.1.2-Trichloroethane	%	116			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	130			70-130	Pass	
1.2-Dibromoethane	%	113			70-130	Pass	
1.2-Dichlorobenzene	%	116			70-130	Pass	
1.2-Dichloroethane	%	122			70-130	Pass	
1.2-Dichloropropane	%	128			70-130	Pass	
1.2.3-Trichloropropane	%	127			70-130	Pass	
1.2.4-Trimethylbenzene	%	126			70-130	Pass	
1.3-Dichlorobenzene	%	116			70-130	Pass	
1.3-Dichloropropane	%	127			70-130	Pass	
1.3.5-Trimethylbenzene	%	125			70-130	Pass	
1.4-Dichlorobenzene	%	116			70-130	Pass	
2-Butanone (MEK)	%	109			70-130	Pass	
2-Propanone (Acetone)	%	124			70-130	Pass	
4-Chlorotoluene	%	123			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	121			70-130	Pass	
Allyl chloride	%	124			70-130	Pass	
Bromobenzene	%	129			70-130	Pass	
Bromochloromethane	%	124			70-130	Pass	
Bromodichloromethane	%	113			70-130	Pass	
Bromoform	%	76			70-130	Pass	
Carbon disulfide	%	114			70-130	Pass	
Carbon Tetrachloride	%	91			70-130	Pass	
Chlorobenzene	%	112			70-130	Pass	
Chloroethane	%	89			70-130	Pass	
Chloroform	%	130			70-130	Pass	
Chloromethane	%	128			70-130	Pass	
cis-1.2-Dichloroethene	%	118			70-130	Pass	
cis-1.3-Dichloropropene	%	89			70-130	Pass	
Dibromochloromethane	%	89			70-130	Pass	
Dibromomethane	%	126			70-130	Pass	
Dichlorodifluoromethane	%	106			70-130	Pass	
Iodomethane	%	74			70-130	Pass	
Isopropyl benzene (Cumene)	%	112			70-130	Pass	
Methylene Chloride	%	127			70-130	Pass	
Styrene	%	110			70-130	Pass	
Tetrachloroethene	%	92			70-130	Pass	
trans-1.2-Dichloroethene	%	120			70-130	Pass	
trans-1.3-Dichloropropene	%	99			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene				%	104			70-130	Pass	
Trichlorofluoromethane				%	118			70-130	Pass	
Vinyl chloride				%	78			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
Naphthalene				%	126			70-130	Pass	
TRH C6-C10				%	85			70-130	Pass	
LCS - % Recovery										
Polycyclic Aromatic Hydrocarbons										
Acenaphthene				%	73			70-130	Pass	
Acenaphthylene				%	91			70-130	Pass	
Anthracene				%	85			70-130	Pass	
Benz(a)anthracene				%	84			70-130	Pass	
Benzo(a)pyrene				%	92			70-130	Pass	
Benzo(b&j)fluoranthene				%	91			70-130	Pass	
Benzo(g,h,i)perylene				%	85			70-130	Pass	
Benzo(k)fluoranthene				%	92			70-130	Pass	
Chrysene				%	94			70-130	Pass	
Dibenz(a,h)anthracene				%	81			70-130	Pass	
Fluoranthene				%	86			70-130	Pass	
Fluorene				%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene				%	77			70-130	Pass	
Naphthalene				%	100			70-130	Pass	
Phenanthrene				%	77			70-130	Pass	
Pyrene				%	85			70-130	Pass	
LCS - % Recovery										
Polychlorinated Biphenyls										
Aroclor-1260				%	102			70-130	Pass	
LCS - % Recovery										
Semivolatile Chlorinated Hydrocarbons										
1.2.4-Trichlorobenzene				%	77			70-130	Pass	
1.4-Dichlorobenzene				%	78			70-130	Pass	
Test		Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1	Result 2	RPD			
TRH C6-C9		S17-Ja10323	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14		S17-Ja11217	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28		S17-Ja11217	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36		S17-Ja11217	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate										
BTEX					Result 1	Result 2	RPD			
Benzene		S17-Ja10323	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene		S17-Ja10323	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene		S17-Ja10323	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes		S17-Ja10323	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene		S17-Ja10323	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total		S17-Ja10323	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate										
Volatile Organics					Result 1	Result 2	RPD			
1.1-Dichloroethane		S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene		S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane		S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane		S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane		S17-Ja10323	NCP	mg/ka	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1.2.2-Tetrachloroethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S17-Ja10323	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benz(a)anthracene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S17-Ja09858	NCP	mg/kg	0.7	0.8	12	30%	Pass
Indeno(1.2.3-cd)pyrene	S17-Ja09858	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S17-Ja09858	NCP	mg/kg	1.2	1.2	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S17-Ja12840	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S17-Ja12840	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S17-Ja12840	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Toxaphene	S17-Ja12840	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1221	S17-Ja12840	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1242	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1248	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1254	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1260	S17-Ja12840	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S17-Ja11217	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S17-Ja11217	NCP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S17-Ja11217	NCP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S17-Ja10279	NCP	mg/kg	4.3	3.6	16	30%	Pass
Cadmium	S17-Ja10279	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S17-Ja10279	NCP	mg/kg	6.6	7.5	13	30%	Pass
Copper	S17-Ja10279	NCP	mg/kg	35	38	8.0	30%	Pass
Lead	S17-Ja10279	NCP	mg/kg	100	110	8.0	30%	Pass
Mercury	S17-Ja10279	NCP	mg/kg	0.2	0.3	18	30%	Pass
Nickel	S17-Ja10279	NCP	mg/kg	5.0	5.2	4.0	30%	Pass
Zinc	S17-Ja10279	NCP	mg/kg	78	92	16	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S17-Ja01412	NCP	%	6.8	6.9	1.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S17-Ja09848	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Nibha Vaidya	Analytical Services Manager
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Inorganic (NSW)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Certificate of Analysis



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025-Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

JBS & G Australia (NSW & WA) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Rohan Hammond
Report 531205-AID
Project Name WALSH BAY
Project ID 52304
Received Date Jan 20, 2017
Date Reported Jan 25, 2017

Methodology:

Asbestos ID	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. Bulk samples include building materials, soils and ores.
Subsampling Soil Samples	The whole sample submitted is first dried and then sieved through a 10mm sieve followed by a 2mm sieve. All fibrous matter viz greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) Iron ores - Sampling and Sample preparation procedures is employed. Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis in accordance with AS 4964-2004.
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated and where required interfering organic fibres or matter may be removed by treating the sample for several hours at a temperature not exceeding 400 ± 30°C. The resultant material is then ground and examined in accordance with AS 4964-2004.
Limit of Reporting	The nominal detection limit of the AS4964 method is around 0.01%. The examination of large sample sizes (at least 500 ml is recommended) may improve the likelihood of identifying asbestos material in the greater than 2 mm fraction. The NEPM screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. NOTE: NATA News, September 2011 – page 34, states, "Weighing of fibres is problematic and can lead to loss of fibres and potential exposure for laboratory analysts. To request laboratories to report information which is outside the scope of AS 4964-2004 and the scope of their accreditation is misleading and is most unwise" therefore such values reported are outside the scope of Eurofins mgt NATA accreditation as designated by an asterisk.

Project Name WALSH BAY
Project ID 52304
Date Sampled Jan 19, 2017
Report 531205-AID

Client Sample ID	Eurofins mgt Sample No.	Date Sampled	Sample Description	Result
JBH01_0.24-0.25	17-Ja11505	Jan 19, 2017	Approximate Sample 122g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
JBH03_0.5-0.6	17-Ja11507	Jan 19, 2017	Approximate Sample 60g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
JBH06_0.75-0.85	17-Ja11508	Jan 19, 2017	Approximate Sample 94g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
QA20170119	17-Ja11509	Jan 19, 2017	Approximate Sample 106g Sample consisted of: Brown fine grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jan 20, 2017	Indefinite

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531205
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
Perth Laboratory - NATA Site # 18217																	
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	JBH01_0.24-0.25	Jan 19, 2017		Soil	S17-Ja11505	X		X	X	X	X	X	X	X	X	X	X
2	JBH02_0.6-0.7	Jan 19, 2017		Soil	S17-Ja11506		X										
3	JBH03_0.5-0.6	Jan 19, 2017		Soil	S17-Ja11507	X		X	X	X	X	X	X	X	X	X	X
4	JBH06_0.75-0.85	Jan 19, 2017		Soil	S17-Ja11508	X		X	X	X	X	X	X	X	X	X	X
5	QA20170119	Jan 19, 2017		Soil	S17-Ja11509	X		X	X	X	X	X	X	X	X	X	X
6	TB20170120	Jan 20, 2017		Water	S17-Ja11510								X				
7	TS20170120	Jan 20, 2017		Water	S17-Ja11511								X				
8	RB20170120	Jan 20, 2017		Water	S17-Ja11512			X				X		X	X		X

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531205
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail	Asbestos Absence / Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
	X	X	X	X	X	X	X	X	X	X	X	X
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 18217												
Test Counts	4	1	5	4	4	4	5	6	5	5	4	5

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. 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 Advice.

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.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
COC	Chain of custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Western Australia Department of Health
NOHSC	National Occupational Health and Safety Commission
ACM	Bonded asbestos-containing material means any material containing more than 1% asbestos and comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation, sprayed-on fireproofing, troweled-on acoustical plaster, floor tile and mastic, floor linoleum, transite shingles, roofing materials, wall and ceiling plaster, ceiling tiles, and gasket materials. This term is restricted to material that cannot pass a 7 mm x 7 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release.
FA	FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
PACM	Presumed Asbestos-Containing Material means thermal system insulation and surfacing material found in buildings, vessels, and vessel sections constructed no later than 1980 that are assumed to contain greater than one percent asbestos but have not been sampled or analyzed to verify or negate the presence of asbestos.
AF	Asbestos fines (AF) are defined as free fibres, or fibre bundles, smaller than 7mm. It is the free fibres which present the greatest risk to human health, although very small fibres (< 5 microns in length) are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve. (Note that for bonded ACM fragments to pass through a 7 mm x 7 mm sieve implies a substantial degree of damage which increases the potential for fibre release.)
AC	Asbestos cement means a mixture of cement and asbestos fibres (typically 90:10 ratios).

Comments

The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Authorised by:

Nibha Vaidya

Senior Analyst - Asbestos(NSW)



Glenn Jackson

National Operations Manager

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

Eurofins | mgt 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 Eurofins | mgt 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.

Certificate of Analysis

JBS & G Australia (NSW & WA) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Rohan Hammond**

Report **531205-W**
Project name **WALSH BAY**
Project ID **52304**
Received Date **Jan 20, 2017**

Client Sample ID			TB20170120	TS20170120	RB20170120
Sample Matrix			Water	Water	Water
Eurofins mgt Sample No.			S17-Ja11510	S17-Ja11511	S17-Ja11512
Date Sampled			Jan 20, 2017	Jan 20, 2017	Jan 20, 2017
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	< 0.001	103%	-
Toluene	0.001	mg/L	< 0.001	102%	-
Ethylbenzene	0.001	mg/L	< 0.001	98%	-
m&p-Xylenes	0.002	mg/L	< 0.002	96%	-
o-Xylene	0.001	mg/L	< 0.001	97%	-
Xylenes - Total	0.003	mg/L	< 0.003	96%	-
4-Bromofluorobenzene (surr.)	1	%	91	99	-
Volatile Organics					
1.1-Dichloroethane	0.001	mg/L	-	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	-	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	-	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	-	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	-	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	-	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	-	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	-	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	-	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	-	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	-	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	-	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	-	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	-	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	-	-	< 0.001
4-Chlorotoluene	0.001	mg/L	-	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	-	-	< 0.001
Allyl chloride	0.001	mg/L	-	-	< 0.001

Client Sample ID			TB20170120	TS20170120	RB20170120
Sample Matrix			Water	Water	Water
Eurofins mgt Sample No.			S17-Ja11510	S17-Ja11511	S17-Ja11512
Date Sampled			Jan 20, 2017	Jan 20, 2017	Jan 20, 2017
Test/Reference	LOR	Unit			
Volatile Organics					
Benzene	0.001	mg/L	-	-	< 0.001
Bromobenzene	0.001	mg/L	-	-	< 0.001
Bromochloromethane	0.001	mg/L	-	-	< 0.001
Bromodichloromethane	0.001	mg/L	-	-	< 0.001
Bromoform	0.001	mg/L	-	-	< 0.001
Bromomethane	0.001	mg/L	-	-	< 0.001
Carbon disulfide	0.001	mg/L	-	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	-	-	< 0.001
Chlorobenzene	0.001	mg/L	-	-	< 0.001
Chloroethane	0.001	mg/L	-	-	< 0.001
Chloroform	0.005	mg/L	-	-	< 0.005
Chloromethane	0.001	mg/L	-	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001
Dibromochloromethane	0.001	mg/L	-	-	< 0.001
Dibromomethane	0.001	mg/L	-	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	-	-	< 0.001
Ethylbenzene	0.001	mg/L	-	-	< 0.001
Iodomethane	0.001	mg/L	-	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	< 0.002
Methylene Chloride	0.001	mg/L	-	-	< 0.001
o-Xylene	0.001	mg/L	-	-	< 0.001
Styrene	0.001	mg/L	-	-	< 0.001
Tetrachloroethene	0.001	mg/L	-	-	< 0.001
Toluene	0.001	mg/L	-	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	-	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	-	-	< 0.001
Trichloroethene	0.001	mg/L	-	-	< 0.001
Trichlorofluoromethane	0.001	mg/L	-	-	< 0.001
Vinyl chloride	0.001	mg/L	-	-	< 0.001
Xylenes - Total	0.003	mg/L	-	-	< 0.003
Fluorobenzene (surr.)	1	%	-	-	126
4-Bromofluorobenzene (surr.)	1	%	-	-	105
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.01	mg/L	-	-	< 0.01
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	-	-	< 0.05
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	-	< 0.02
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	-	-	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TB20170120	TS20170120	RB20170120
Sample Matrix			Water	Water	Water
Eurofins mgt Sample No.			S17-Ja11510	S17-Ja11511	S17-Ja11512
Date Sampled			Jan 20, 2017	Jan 20, 2017	Jan 20, 2017
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Dibenz(a,h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH*	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	58
p-Terphenyl-d14 (surr.)	1	%	-	-	61
Semivolatile Chlorinated Hydrocarbons					
1,2-Dichlorobenzene	0.002	mg/L	-	-	< 0.002
1,2,4-Trichlorobenzene	0.002	mg/L	-	-	< 0.002
1,2,4,5-Tetrachlorobenzene	0.002	mg/L	-	-	< 0.002
1,3-Dichlorobenzene	0.002	mg/L	-	-	< 0.002
1,4-Dichlorobenzene	0.002	mg/L	-	-	< 0.002
Hexachlorobenzene	0.002	mg/L	-	-	< 0.002
Hexachlorobutadiene	0.002	mg/L	-	-	< 0.002
Hexachlorocyclopentadiene	0.004	mg/L	-	-	< 0.004
Hexachloroethane	0.002	mg/L	-	-	< 0.002
Pentachlorobenzene	0.002	mg/L	-	-	< 0.002
Nitrobenzene-d5 (surr.)	1	%	-	-	106
p-Terphenyl-d14 (surr.)	1	%	-	-	61
2-Fluorobiphenyl (surr.)	1	%	-	-	58
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
Heavy Metals					
Arsenic	0.001	mg/L	-	-	< 0.001
Cadmium	0.0002	mg/L	-	-	< 0.0002
Chromium	0.001	mg/L	-	-	< 0.001
Copper	0.001	mg/L	-	-	< 0.001
Lead	0.001	mg/L	-	-	< 0.001
Mercury	0.0001	mg/L	-	-	< 0.0001
Nickel	0.001	mg/L	-	-	< 0.001
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: TRH C6-C36 - LTM-ORG-2010	Sydney	Jan 24, 2017	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 20, 2017	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 20, 2017	7 Day
BTEX - Method: TRH C6-C40 - LTM-ORG-2010	Sydney	Jan 20, 2017	14 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jan 20, 2017	7 Days
Polycyclic Aromatic Hydrocarbons - Method: E007 Polyaromatic Hydrocarbons (PAH)	Sydney	Jan 20, 2017	7 Day
Semivolatile Chlorinated Hydrocarbons - Method: E017 Semivolatile Chlorinated Hydrocarbons	Sydney	Jan 24, 2017	7 Day
Metals M8 - Method: LTM-MET-3040 Metals in Waters by ICP-MS	Sydney	Jan 20, 2017	28 Day

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
 Sydney
 NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531205
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
Perth Laboratory - NATA Site # 18217																	
Internal Laboratory																	
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
JBH01_0.24-0.25	Jan 19, 2017		Soil	S17-Ja11505	X		X	X	X	X	X	X	X	X	X	X	X
JBH02_0.6-0.7	Jan 19, 2017		Soil	S17-Ja11506		X											
JBH03_0.5-0.6	Jan 19, 2017		Soil	S17-Ja11507	X		X	X	X	X	X	X	X	X	X	X	X
JBH06_0.75-0.85	Jan 19, 2017		Soil	S17-Ja11508	X		X	X	X	X	X	X	X	X	X	X	X
QA20170119	Jan 19, 2017		Soil	S17-Ja11509	X		X	X	X	X	X	X	X	X	X	X	X
TB20170120	Jan 20, 2017		Water	S17-Ja11510									X				
TS20170120	Jan 20, 2017		Water	S17-Ja11511									X				
RB20170120	Jan 20, 2017		Water	S17-Ja11512			X					X		X	X		X

Company Name: JBS & G Australia (NSW & WA) P/L
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Sample Detail	Asbestos Absence / Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 18217												
Test Counts	4	1	5	4	4	4	5	6	5	5	4	5

Internal Quality Control Review and Glossary

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 LORs are matrix dependant. Quoted LORs 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 Advice.

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 RPD

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

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 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Semivolatile Chlorinated Hydrocarbons							
1,2-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
1,2,4-Trichlorobenzene	mg/L	< 0.002			0.002	Pass	
1,2,4,5-Tetrachlorobenzene	mg/L	< 0.002			0.002	Pass	
1,3-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
1,4-Dichlorobenzene	mg/L	< 0.002			0.002	Pass	
Hexachlorobenzene	mg/L	< 0.002			0.002	Pass	
Hexachlorobutadiene	mg/L	< 0.002			0.002	Pass	
Hexachlorocyclopentadiene	mg/L	< 0.004			0.004	Pass	
Hexachloroethane	mg/L	< 0.002			0.002	Pass	
Pentachlorobenzene	mg/L	< 0.002			0.002	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	103			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total	%	102			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	113			70-130	Pass	
1.1-Dichloroethene	%	118			70-130	Pass	
1.1.1-Trichloroethane	%	98			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	82			70-130	Pass	
1.1.2-Trichloroethane	%	99			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	102			70-130	Pass	
1.2-Dibromoethane	%	96			70-130	Pass	
1.2-Dichlorobenzene	%	101			70-130	Pass	
1.2-Dichloroethane	%	127			70-130	Pass	
1.2-Dichloropropane	%	108			70-130	Pass	
1.2.3-Trichloropropane	%	111			70-130	Pass	
1.2.4-Trimethylbenzene	%	108			70-130	Pass	
1.3-Dichlorobenzene	%	101			70-130	Pass	
1.3-Dichloropropane	%	107			70-130	Pass	
1.3.5-Trimethylbenzene	%	109			70-130	Pass	
1.4-Dichlorobenzene	%	101			70-130	Pass	
2-Butanone (MEK)	%	84			70-130	Pass	
2-Propanone (Acetone)	%	94			70-130	Pass	
4-Chlorotoluene	%	106			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	105			70-130	Pass	
Allyl chloride	%	115			70-130	Pass	
Bromobenzene	%	120			70-130	Pass	
Bromochloromethane	%	126			70-130	Pass	
Bromodichloromethane	%	98			70-130	Pass	
Bromoform	%	76			70-130	Pass	
Bromomethane	%	96			70-130	Pass	
Carbon disulfide	%	95			70-130	Pass	
Carbon Tetrachloride	%	83			70-130	Pass	
Chlorobenzene	%	98			70-130	Pass	
Chloroethane	%	116			70-130	Pass	
Chloroform	%	108			70-130	Pass	
Chloromethane	%	124			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	%	80			70-130	Pass	
Dibromomethane	%	106			70-130	Pass	
Dichlorodifluoromethane	%	105			70-130	Pass	
Iodomethane	%	102			70-130	Pass	
Isopropyl benzene (Cumene)	%	98			70-130	Pass	
Methylene Chloride	%	126			70-130	Pass	
Styrene	%	96			70-130	Pass	
Tetrachloroethene	%	84			70-130	Pass	
trans-1,2-Dichloroethene	%	114			70-130	Pass	
trans-1,3-Dichloropropene	%	90			70-130	Pass	
Trichloroethene	%	94			70-130	Pass	
Trichlorofluoromethane	%	114			70-130	Pass	
Vinyl chloride	%	124			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	109			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	%	77			70-130	Pass	
Benzo(g,h,i)perylene	%	95			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	102			70-130	Pass	
Dibenz(a,h)anthracene	%	83			70-130	Pass	
Fluoranthene	%	104			70-130	Pass	
Fluorene	%	103			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	83			70-130	Pass	
Naphthalene	%	102			70-130	Pass	
Phenanthrene	%	108			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Semivolatile Chlorinated Hydrocarbons							
1,2,4-Trichlorobenzene	%	100			70-130	Pass	
1,3-Dichlorobenzene	%	100			70-130	Pass	
1,4-Dichlorobenzene	%	100			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	108			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			70-130	Pass	
Cadmium	%	115			70-130	Pass	
Chromium	%	101			70-130	Pass	
Copper	%	96			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	89			70-130	Pass	
Nickel	%	95			70-130	Pass	
Zinc	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja09604	NCP	%	97			70-130	Pass	
Toluene	S17-Ja09604	NCP	%	99			70-130	Pass	
Ethylbenzene	S17-Ja09604	NCP	%	99			70-130	Pass	
m&p-Xylenes	S17-Ja09604	NCP	%	99			70-130	Pass	
o-Xylene	S17-Ja09604	NCP	%	97			70-130	Pass	
Xylenes - Total	S17-Ja09604	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja09604	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S17-Ja07282	NCP	%	116			70-130	Pass	
1.1-Dichloroethene	S17-Ja07282	NCP	%	116			70-130	Pass	
1.1.1-Trichloroethane	S17-Ja07282	NCP	%	99			70-130	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja07282	NCP	%	81			70-130	Pass	
1.1.2-Trichloroethane	S17-Ja07282	NCP	%	106			70-130	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja07282	NCP	%	118			70-130	Pass	
1.2-Dibromoethane	S17-Ja07282	NCP	%	100			70-130	Pass	
1.2-Dichlorobenzene	S17-Ja07282	NCP	%	101			70-130	Pass	
1.2-Dichloroethane	S17-Ja07282	NCP	%	121			70-130	Pass	
1.2-Dichloropropane	S17-Ja07282	NCP	%	112			70-130	Pass	
1.2.3-Trichloropropane	S17-Ja07282	NCP	%	122			70-130	Pass	
1.2.4-Trimethylbenzene	S17-Ja07282	NCP	%	105			70-130	Pass	
1.3-Dichlorobenzene	S17-Ja07282	NCP	%	99			70-130	Pass	
1.3-Dichloropropane	S17-Ja07282	NCP	%	112			70-130	Pass	
1.3.5-Trimethylbenzene	S17-Ja07282	NCP	%	106			70-130	Pass	
1.4-Dichlorobenzene	S17-Ja07282	NCP	%	100			70-130	Pass	
2-Butanone (MEK)	S17-Ja07282	NCP	%	95			70-130	Pass	
2-Propanone (Acetone)	S17-Ja07282	NCP	%	114			70-130	Pass	
4-Chlorotoluene	S17-Ja07282	NCP	%	106			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja07282	NCP	%	128			70-130	Pass	
Allyl chloride	S17-Ja07282	NCP	%	107			70-130	Pass	
Bromobenzene	S17-Ja07282	NCP	%	118			70-130	Pass	
Bromochloromethane	S17-Ja07282	NCP	%	126			70-130	Pass	
Bromodichloromethane	S17-Ja07282	NCP	%	93			70-130	Pass	
Bromomethane	S17-Ja07282	NCP	%	77			70-130	Pass	
Carbon disulfide	S17-Ja07282	NCP	%	102			70-130	Pass	
Carbon Tetrachloride	S17-Ja07282	NCP	%	78			70-130	Pass	
Chlorobenzene	S17-Ja07282	NCP	%	104			70-130	Pass	
Chloroethane	S17-Ja07282	NCP	%	118			70-130	Pass	
Chloroform	S17-Ja07282	NCP	%	110			70-130	Pass	
Chloromethane	S17-Ja07282	NCP	%	109			70-130	Pass	
cis-1.2-Dichloroethene	S17-Ja07282	NCP	%	105			70-130	Pass	
cis-1.3-Dichloropropene	S17-Ja07282	NCP	%	82			70-130	Pass	
Dibromochloromethane	S17-Ja07282	NCP	%	74			70-130	Pass	
Dibromomethane	S17-Ja07282	NCP	%	110			70-130	Pass	
Dichlorodifluoromethane	S17-Ja07282	NCP	%	121			70-130	Pass	
Isopropyl benzene (Cumene)	S17-Ja07282	NCP	%	102			70-130	Pass	
Methylene Chloride	S17-Ja07282	NCP	%	128			70-130	Pass	
Styrene	S17-Ja07282	NCP	%	100			70-130	Pass	
Tetrachloroethene	S17-Ja07282	NCP	%	88			70-130	Pass	
trans-1.2-Dichloroethene	S17-Ja07282	NCP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
trans-1,3-Dichloropropene	S17-Ja07282	NCP	%	87			70-130	Pass	
Trichloroethene	S17-Ja07282	NCP	%	97			70-130	Pass	
Trichlorofluoromethane	S17-Ja07282	NCP	%	110			70-130	Pass	
Vinyl chloride	S17-Ja07282	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja13149	NCP	%	91			70-130	Pass	
TRH C6-C10	S17-Ja09604	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S17-Ja11512	CP	%	86			70-130	Pass	
Cadmium	S17-Ja11512	CP	%	88			70-130	Pass	
Chromium	S17-Ja11512	CP	%	84			70-130	Pass	
Copper	S17-Ja11512	CP	%	83			70-130	Pass	
Lead	S17-Ja11512	CP	%	84			70-130	Pass	
Mercury	S17-Ja11512	CP	%	82			70-130	Pass	
Nickel	S17-Ja11512	CP	%	83			70-130	Pass	
Zinc	S17-Ja11512	CP	%	88			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja09602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S17-Ja09602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S17-Ja09602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S17-Ja09602	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S17-Ja09602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S17-Ja09602	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja09602	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1,1-Dichloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,1-Dichloroethene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,1,1-Trichloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,1,1,2-Tetrachloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,1,2-Trichloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,1,2,2-Tetrachloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,2-Dibromoethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,2-Dichloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,2-Dichloropropane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,2,3-Trichloropropane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1,3-Dichloropropane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
cis-1.2-Dichloroethene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.3-Dichloropropene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.2-Dichloroethene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.3-Dichloropropene	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S17-Ja07281	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C10	S17-Ja09602	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M17-Ja09381	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium	M17-Ja09381	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium	M17-Ja09369	NCP	mg/L	0.002	0.002	4.0	30%	Pass
Copper	M17-Ja09369	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead	M17-Ja09381	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury	M17-Ja09381	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	M17-Ja09381	NCP	mg/L	0.003	0.003	7.0	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Nibha Vaidya	Analytical Services Manager
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Metal (NSW)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
 Sydney
 NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531205
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
Perth Laboratory - NATA Site # 18217																	
Internal Laboratory																	
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID													
BH01_0.24-0.25	Jan 19, 2017		Soil	S17-Ja11505	X		X	X	X	X	X	X	X	X	X	X	X
BH02_0.6-0.7	Jan 19, 2017		Soil	S17-Ja11506		X											
BH03_0.5-0.6	Jan 19, 2017		Soil	S17-Ja11507	X		X	X	X	X	X	X	X	X	X	X	X
BH06_0.75-0.85	Jan 19, 2017		Soil	S17-Ja11508	X		X	X	X	X	X	X	X	X	X	X	X
QA20170119	Jan 19, 2017		Soil	S17-Ja11509	X		X	X	X	X	X	X	X	X	X	X	X
TB20170120	Jan 20, 2017		Water	S17-Ja11510									X				
TS20170120	Jan 20, 2017		Water	S17-Ja11511									X				
RB20170120	Jan 20, 2017		Water	S17-Ja11512			X					X		X	X		X

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
 Sydney
 NSW 2000
Project Name: WALSH BAY
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Order No.:
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Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
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Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organophosphorus Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Semivolatile Chlorinated Hydrocarbons	Volatile Organics	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 18217												
Test Counts	4	1	5	4	4	4	5	6	5	5	4	5

Sample Receipt Advice

Company name: **JBS & G Australia (NSW & WA) P/L**

Contact name: **Rohan Hammond**

Project name: **WALSH BAY**

Project ID: **52304**

COC number: **Not provided**

Turn around time: **3 Day**

Date/Time received: **Jan 20, 2017 5:05 PM**

Eurofins | mgt reference: **531205**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 15.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Rohan Hammond - rhammond@jbsg.com.au.

CHAIN OF CUSTODY

[illegible]

Alena Bounkeua

From: Nibha Vaidya
Sent: Friday, 20 January 2017 8:28 PM
To: !AU04_CAU001_EnviroSampleNSW
Subject: FW: WALSHS BAY (52304) - Report 531205

Follow Up Flag: Follow up
Flag Status: Flagged

FYI

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Sumi Dorairaj [<mailto:Sdorairaj@jbsq.com.au>]
Sent: Friday, 20 January 2017 8:18 PM
To: Nibha Vaidya; Nicola Wells
Cc: Rohan Hammond
Subject: Re: WALSHS BAY (52304) - Report 531205

Hi Nibha, thanks for the information. Please remove jbh02-0.6-0.7 from the requested analysis for this project. Thanks , Sumi

Sent from my Samsung GALAXY S5 on the Telstra 4G network

----- Original message -----

From: Nibha Vaidya
Date: 20/01/2017 6:55 PM (GMT+10:00)
To: Nicola Wells
Cc: Rohan Hammond , Sumi Dorairaj
Subject: WALSHS BAY (52304) - Report 531205

Hi Nicola,

We have received the attached batch of samples. As indicated in the COC, 'JBH02-0.6-0.7' has a very limited sample and therefore, if we were to carry out all of the requested tests, the LORs may have to be raised. Will that be okay with you?

Further, if you would like this sample crushed and pulverised prior to analysis, it will have to be sent out and therefore, 3 day TAT will not be achievable. Please let me know how you would like us to proceed.

Kind Regards,

Nibha Vaidya
Analytical Services Manager

Eurofins | mgt

Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Fax : +61 2 9420 2977

Email : NibhaVaidya@eurofins.com

Website : www.eurofins.com.au/environmental-testing

Are you on TOP of PFASs? Find out more by reading Eurofins | mgt's Environote by clicking [here](#)

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

ScannedByWebsenseForEurofins

Rupan Virk

From: Nibha Vaidya
Sent: Tuesday, 24 January 2017 10:12 AM
To: IAU04_CAU001_EnviroSampleNSW
Subject: FW: WALSHS BAY (52304) - Report 531205

*Rupan
24/01
10:12 AM*

FYI

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Sumi Dorairaj [<mailto:Sdorairaj@jbsg.com.au>]
Sent: Tuesday, 24 January 2017 9:49 AM
To: Nibha Vaidya; Nicola Wells
Cc: Rohan Hammond
Subject: RE: WALSHS BAY (52304) - Report 531205

Hi Nibha,

Please go with TRH, heavy metals, PAHs and SVOCs if you can on the RB20170120 sample. We are not concerned if the LORs need to be raised as long as the reason is noted on the analysis certificate.

Thanks, Sumi



Sumi Dorairaj | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0427 782 127 | www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at <http://dropbox.vousendit.com/JBS&G>. Place 'Sumi Dorairaj - Sydney' in the subject.

This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

From: Nibha Vaidya [<mailto:NibhaVaidya@eurofins.com>]
Sent: Tuesday, January 24, 2017 9:36 AM
To: Sumi Dorairaj <Sdorairaj@jbsg.com.au>; Nicola Wells <NWells@jbsg.com.au>
Cc: Rohan Hammond <RHammond@jbsg.com.au>
Subject: RE: WALSHS BAY (52304) - Report 531205

Hi Sumi,

Certificate of Analysis

JBS & G Australia (NSW & WA) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Rohan Hammond**

Report **531195-A**
Project name **WALSH BAY**
Project ID **52304**
Received Date **Jan 20, 2017**

Client Sample ID			QV01_FRONT	QV01_BACK	JBH06_AIR_F	JBH06_AIR_B
Sample Matrix			Air	Air	RONT	ACK
Eurofins mgt Sample No.			S17-Ja11438	S17-Ja11439	S17-Ja11440	S17-Ja11441
Date Sampled			Jan 20, 2017	Jan 20, 2017	Jan 20, 2017	Jan 20, 2017
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QV01_FRONT Air	QV01_BACK Air	JBH06_AIR_F RONT Air	JBH06_AIR_B ACK Air
Sample Matrix			S17-Ja11438	S17-Ja11439	S17-Ja11440	S17-Ja11441
Eurofins mgt Sample No.			Jan 20, 2017	Jan 20, 2017	Jan 20, 2017	Jan 20, 2017
Date Sampled						
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	99	91	91	92
4-Bromofluorobenzene (surr.)	1	%	99	95	92	92
Dibromofluoromethane (surr.)	1	%	101	90	94	92
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

VOCs in Ambient Air by GC/MS

Testing Site

Melbourne

Extracted

Jan 20, 2017

Holding Time

14 Day

- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS

Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531195
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail

VOCs in Ambient Air by GC/MS

Melbourne Laboratory - NATA Site # 1254 & 14271						X
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 18217						
Internal Laboratory						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
QV01_FRONT	Jan 20, 2017		Air	S17-Ja11438	X	
QV01_BACK	Jan 20, 2017		Air	S17-Ja11439	X	
JBH06_AIR_FRONT	Jan 20, 2017		Air	S17-Ja11440	X	
JBH06_AIR_BACK	Jan 20, 2017		Air	S17-Ja11441	X	
Total Counts						4

Internal Quality Control Review and Glossary

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 LORs are matrix dependant. Quoted LORs 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 Advice.

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 RPD

Units

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

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 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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.
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 RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
VOCs in Ambient Air by GC/MS							
Naphthalene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropene	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	
Xylenes - Total	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
Naphthalene	%	92			70-130	Pass	
1.1-Dichloroethene	%	89			70-130	Pass	
1.1-Dichloropropene	%	98			75-125	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	91			75-125	Pass	
1.2-Dichloroethane	%	86			70-130	Pass	
Benzene	%	91			70-130	Pass	
Ethylbenzene	%	97			70-130	Pass	
Toluene	%	94			70-130	Pass	
Trichloroethene	%	89			70-130	Pass	
Xylenes - Total	%	95			70-130	Pass	
1.2-Dichlorobenzene	%	87			70-130	Pass	
1.2.3-Trichlorobenzene	%	89			70-130	Pass	
1.2.4-Trichlorobenzene	%	90			70-130	Pass	
1.4-Dichlorobenzene	%	96			70-130	Pass	

Comments

Sample Integrity

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

Authorised By

Nibha Vaidya	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Alex Petridis	Senior Analyst-Organic (VIC)



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Company Name: JBS & G Australia (NSW & WA) P/L
Address: Level 1, 50 Margaret St
 Sydney
 NSW 2000
Project Name: WALSH BAY
Project ID: 52304

Order No.:
Report #: 531195
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2017 5:05 PM
Due: Jan 25, 2017
Priority: 3 Day
Contact Name: Rohan Hammond

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail

VOCs in Ambient Air by GC/MS

Melbourne Laboratory - NATA Site # 1254 & 14271						X
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 18217						
Internal Laboratory						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
QV01_FRONT	Jan 20, 2017		Air	S17-Ja11438	X	
QV01_BACK	Jan 20, 2017		Air	S17-Ja11439	X	
JBH06_AIR_FRONT	Jan 20, 2017		Air	S17-Ja11440	X	
JBH06_AIR_BACK	Jan 20, 2017		Air	S17-Ja11441	X	
Total Counts						4

Sample Receipt Advice

Company name: **JBS & G Australia (NSW & WA) P/L**

Contact name: **Rohan Hammond**

Project name: **WALSH BAY**

Project ID: **52304**

COC number: **Not provided**

Turn around time: **3 Day**

Date/Time received: **Jan 20, 2017 5:05 PM**

Eurofins | mgt reference: **531195**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 28 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Appropriate sample containers have been used.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Rohan Hammond - rhammond@jbsg.com.au.

010652

CHAIN OF CUSTODY

[illegible]



12 Ashley Street, Chatswood, NSW 2067
tel: +61 2 9910 6200

email: sydney@envirolab.com.au
envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

160571

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: R Hammond, S Dorairaj

Sample log in details:

Your Reference:	52304, Walsh Bay
No. of samples:	1 soil
Date samples received / completed instructions received	20/01/17 / 20/01/17

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

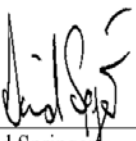
Date results requested by: / Issue Date:	25/01/17 / 25/01/17
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025 - Testing

Tests not covered by NATA are denoted with *.

Results Approved By:



David Springer
General Manager

Envirolab Reference: 160571
Revision No: R 00



VOCs in soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	24/01/2017
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1

VOCs in soil Our Reference: Your Reference	UNITS ----- -	160571-1 QC20170119
Date Sampled Type of sample	-----	19/01/2017 soil
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	97
Surrogate aaa-Trifluorotoluene	%	72
Surrogate Toluene-d ₈	%	99
Surrogate 4-Bromofluorobenzene	%	120

SVOCs in Soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	23/01/2017
Phenol	mg/kg	<0.5
Bis-(2-chloroethyl) ether	mg/kg	<1
2-Chlorophenol	mg/kg	<0.5
1,3-Dichlorobenzene	mg/kg	<0.5
1,4-Dichlorobenzene	mg/kg	<0.5
2-Methylphenol	mg/kg	<0.5
1,2-Dichlorobenzene	mg/kg	<0.5
Bis (2-chloroisopropyl) ether	mg/kg	<1
3/4-Methylphenol	mg/kg	<1
N-nitrosodi-n-propylamine	mg/kg	<1
Hexachloroethane	mg/kg	<0.5
Nitrobenzene	mg/kg	<1
Isophorone	mg/kg	<1
2,4-Dimethylphenol	mg/kg	<0.5
2-Nitrophenol	mg/kg	<0.5
Bis(2-chloroethoxy) methane	mg/kg	<1
2,4-Dichlorophenol	mg/kg	<0.5
1,2,4-Trichlorobenzene	mg/kg	<0.5
Naphthalene	mg/kg	<0.5
4-Chloroaniline	mg/kg	<1
Hexachlorobutadiene	mg/kg	<0.5
4-Chloro-3-methylphenol	mg/kg	<5
2-Methylnaphthalene	mg/kg	<0.5
Hexachlorocyclopentadiene	mg/kg	<2
2,4,6-trichlorophenol	mg/kg	<0.5
2,4,5-trichlorophenol	mg/kg	<0.5
2-Chloronaphthalene	mg/kg	<0.5
2-nitroaniline	mg/kg	<1
Dimethylphthalate	mg/kg	<1
2,6-Dinitrotoluene	mg/kg	<1
Acenaphthylene	mg/kg	<0.5
3-Nitroaniline	mg/kg	<1
Acenaphthene	mg/kg	<0.5
2,4-dinitrophenol	mg/kg	<10
4-nitrophenol	mg/kg	<10
Dibenzofuran	mg/kg	<1
diethylphthalate	mg/kg	<1
4-chlorophenylphenylether	mg/kg	<1
4-nitroaniline	mg/kg	<1
Fluorene	mg/kg	<0.5

SVOCs in Soil	UNITS	160571-1
Our Reference:	-----	QC20170119
Your Reference	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
2-methyl-4,6-dinitrophenol	mg/kg	<10
azobenzene	mg/kg	<1
4-bromophenylphenylether	mg/kg	<1
hexachlorobenzene	mg/kg	<0.5
pentachlorophenol	mg/kg	<5
Phenanthrene	mg/kg	1
Anthracene	mg/kg	<0.5
carbazole	mg/kg	<1
di-n-butylphthalate	mg/kg	<1
Fluoranthene	mg/kg	5.0
Pyrene	mg/kg	5
butylbenzylphthalate	mg/kg	<1
bis(2-ethylhexyl)phthalate	mg/kg	<1
Benzo(a)anthracene	mg/kg	3
Chrysene	mg/kg	3
di-n-octylphthalate	mg/kg	<1
Benzo(b+j+k)fluoranthene	mg/kg	5
Benzo(a)pyrene	mg/kg	3
Indeno(1,2,3-c,d)pyrene	mg/kg	1
Dibenzo(a,h)anthracene	mg/kg	<0.5
Benzo(g,h,i)perylene	mg/kg	1
ethylmethanesulfonate	mg/kg	<1
aniline	mg/kg	<1
pentachloroethane	mg/kg	<0.5
benzyl alcohol	mg/kg	<1
acetophenone	mg/kg	<1
N-nitrosomorpholine	mg/kg	<1
N-nitrosopiperidine	mg/kg	<1
2,6-dichlorophenol	mg/kg	<0.5
hexachloropropene-1	mg/kg	<0.5
N-nitroso-n-butylamine	mg/kg	<1
safrole	mg/kg	<1
1,2,4,5-tetrachlorobenzene	mg/kg	<0.5
cis and trans iso-safrole	mg/kg	<1
1,3-dinitrobenzene	mg/kg	<1
pentachlorobenzene	mg/kg	<0.5
1-naphthylamine	mg/kg	<1
2,3,4,6-tetrachlorophenol	mg/kg	<0.5
2-naphthylamine	mg/kg	<1
5-nitro-o-toluidine	mg/kg	<1
diphenylamine	mg/kg	<1
phenacetin	mg/kg	<1

SVOCs in Soil	UNITS	160571-1
Our Reference:	-----	QC20170119
Your Reference	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
pentachloronitrobenzene	mg/kg	<1
dinoseb	mg/kg	<1
methapyrilene	mg/kg	<1
p-dimethylaminoazobenzene	mg/kg	<1
2-acetylaminofluorene	mg/kg	<0.5
7,12-dimethylbenz(a)anthracene	mg/kg	<0.5
3-methylcholanthrene	mg/kg	<0.5
a-BHC	mg/kg	<0.5
b-BHC	mg/kg	<0.5
g-BHC	mg/kg	<0.5
d-BHC	mg/kg	<0.5
Heptachlor	mg/kg	<0.5
Aldrin	mg/kg	<0.5
Heptachlor Epoxide	mg/kg	<0.5
g-Chlordane	mg/kg	<0.5
a-Chlordane	mg/kg	<0.5
Endosulfan I	mg/kg	<0.5
p,p'-DDE	mg/kg	<0.5
Dieldrin	mg/kg	<0.5
Endrin	mg/kg	<0.5
p,p'-DDD	mg/kg	<0.5
Endosulfan II	mg/kg	<0.5
Endrin Aldehyde	mg/kg	<0.5
p,p'-DDT	mg/kg	<0.5
Endrin Ketone	mg/kg	<0.5
Endosulfan Sulphate	mg/kg	<0.5
Methoxychlor	mg/kg	<1
Surrogate 2-fluorophenol	%	75
Surrogate Phenol-d ₆	%	50
Surrogate Nitrobenzene-d ₅	%	65
Surrogate 2-fluorobiphenyl	%	101
Surrogate 2,4,6-Tribromophenol	%	83
Surrogate p-Terphenyl-d ₁₄	%	94

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	24/01/2017
TRHC ₆ - C ₉	mg/kg	<25
TRHC ₆ - C ₁₀	mg/kg	<25
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	72

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	24/01/2017
TRHC ₁₀ - C ₁₄	mg/kg	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100
TRH>C ₁₀ -C ₁₆	mg/kg	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH>C ₁₆ -C ₃₄	mg/kg	150
TRH>C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C ₁₀ -C ₄₀)	mg/kg	150
Surrogate o-Terphenyl	%	93

PAHs in Soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	23/01/2017
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.7
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	0.1
Phenanthrene	mg/kg	1.8
Anthracene	mg/kg	0.9
Fluoranthene	mg/kg	5.7
Pyrene	mg/kg	5.4
Benzo(a)anthracene	mg/kg	3.1
Chrysene	mg/kg	3.7
Benzo(b,j+k)fluoranthene	mg/kg	3.5
Benzo(a)pyrene	mg/kg	3.0
Indeno(1,2,3-c,d)pyrene	mg/kg	1.9
Dibenzo(a,h)anthracene	mg/kg	0.7
Benzo(g,h,i)perylene	mg/kg	2.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	4.6
Benzo(a)pyrene TEQ calc(half)	mg/kg	4.6
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	4.6
Total +ve PAH's	mg/kg	33
Surrogate <i>p</i> -Terphenyl-d14	%	98

Organochlorine Pesticides in soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	23/01/2017
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	113

Organophosphorus Pesticides		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	23/01/2017
Azinphos-methyl (Guthion)	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorvos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate TCMX	%	113

PCBs in Soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date extracted	-	23/01/2017
Date analysed	-	23/01/2017
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCLMX	%	113

Acid Extractable metals in soil		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date prepared	-	23/01/2017
Date analysed	-	24/01/2017
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	5
Copper	mg/kg	45
Lead	mg/kg	65
Mercury	mg/kg	<0.1
Nickel	mg/kg	5
Zinc	mg/kg	57

Moisture		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date prepared	-	23/01/2017
Date analysed	-	24/01/2017
Moisture	%	19

Asbestos ID - soils		
Our Reference:	UNITS	160571-1
Your Reference	-----	QC20170119
	-	
Date Sampled	-----	19/01/2017
Type of sample		soil
Date analysed	-	24/01/2017
Sample mass tested	g	Approx.75g
Sample Description	-	Beige coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
		Organic fibres detected
Trace Analysis	-	No asbestos detected

MethodID	Methodology Summary
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'TEQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'TEQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'TEQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

MethodID	Methodology Summary
	Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			24/01/2017	[NT]	[NT]	LCS-3	24/01/2017
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Bromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	91%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chloroform	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	92%
2,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	87%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	79%
1,1-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Cyclohexane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
carbon tetrachloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	0.2	Org-014	<0.2	[NT]	[NT]	[NR]	[NR]
dibromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	86%
bromodichloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	89%
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Toluene	mg/kg	0.5	Org-014	<0.5	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
dibromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	93%
1,2-dibromoethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tetrachloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-3	90%
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromoform	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
m+p-xylene	mg/kg	2	Org-014	<2	[NT]	[NT]	[NR]	[NR]
styrene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
o-Xylene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in soil						Base II Duplicate II %RPD		
isopropylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tert-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
sec-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluorometha	%		Org-014	93	[NT]	[NT]	LCS-3	111%
Surrogate aaa-Trifluorotoluene	%		Org-014	73	[NT]	[NT]	LCS-3	90%
Surrogate Toluene-d8	%		Org-014	100	[NT]	[NT]	LCS-3	117%
Surrogate 4-Bromofluorobenzene	%		Org-014	121	[NT]	[NT]	LCS-3	115%

Client Reference: 52304, Walsh Bay

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
Date extracted	-			23/01/2017	160571-1	23/01/2017 23/01/2017	LCS-3	23/01/2017
Date analysed	-			23/01/2017	160571-1	23/01/2017 23/01/2017	LCS-3	23/01/2017
Phenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	40%
Bis-(2-chloroethyl) ether	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2-Chlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	78%
1,3-Dichlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
1,4-Dichlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	70%
2-Methylphenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
1,2-Dichlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Bis (2-chloroisopropyl) ether	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
3/4-Methylphenol	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
N-nitrosodi-n-propylamine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Hexachloroethane	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Nitrobenzene	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Isophorone	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2-Nitrophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Bis(2-chloroethoxy) methane	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
1,2,4-Trichlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Naphthalene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
4-Chloroaniline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Hexachlorobutadiene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
4-Chloro-3-methylphenol	mg/kg	5	Org-012	<5	160571-1	<5 <5	[NR]	[NR]
2-Methylnaphthalene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Hexachlorocyclopentadiene	mg/kg	2	Org-012	<2	160571-1	<2 <2	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2,4,5-trichlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2-Chloronaphthalene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2-nitroaniline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Dimethylphthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	LCS-3	74%
2,6-Dinitrotoluene	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Acenaphthylene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
3-Nitroaniline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Acenaphthene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	78%
2,4-dinitrophenol	mg/kg	10	Org-012	<10	160571-1	<10 <10	[NR]	[NR]
4-nitrophenol	mg/kg	10	Org-012	<10	160571-1	<10 <10	LCS-3	83%
Dibenzofuran	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
diethylphthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	LCS-3	73%
4-chlorophenylphenylether	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]

Client Reference: 52304, Walsh Bay

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
4-nitroaniline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Fluorene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	10	Org-012	<10	160571-1	<10 <10	[NR]	[NR]
azobenzene	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
4-bromophenylphenylether	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
hexachlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
pentachlorophenol	mg/kg	5	Org-012	<5	160571-1	<5 <5	[NR]	[NR]
Phenanthrene	mg/kg	0.5	Org-012	<0.5	160571-1	1 1 RPD: 0	[NR]	[NR]
Anthracene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 0.7	[NR]	[NR]
carbazole	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
di-n-butylphthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Fluoranthene	mg/kg	0.5	Org-012	<0.5	160571-1	5.0 8.6 RPD: 53	[NR]	[NR]
Pyrene	mg/kg	0.5	Org-012	<0.5	160571-1	5 8.8 RPD: 55	LCS-3	79%
butylbenzylphthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
bis(2-ethylhexyl) phthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Benzo(a)anthracene	mg/kg	0.5	Org-012	<0.5	160571-1	3 6.2 RPD: 70	[NR]	[NR]
Chrysene	mg/kg	0.5	Org-012	<0.5	160571-1	3 5.7 RPD: 62	[NR]	[NR]
di-n-octylphthalate	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Benzo(b+j+k) fluoranthene	mg/kg	1	Org-012	<1	160571-1	5 9 RPD: 57	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.5	Org-012	<0.5	160571-1	3 5 RPD: 50	[NR]	[NR]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	Org-012	<0.5	160571-1	1 2 RPD: 67	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 0.6	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.5	Org-012	<0.5	160571-1	1 2 RPD: 67	[NR]	[NR]
ethylmethanesulfonate	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
aniline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
pentachloroethane	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
benzyl alcohol	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
acetophenone	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
N-nitrosomorpholine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
N-nitrosopiperidine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2,6-dichlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
hexachloropropene-1	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
N-nitroso-n-butylamine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
safrrole	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
1,2,4,5-tetrachlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
cis and trans iso-safrrole	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
1,3-dinitrobenzene	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
pentachlorobenzene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
1-naphthylamine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2,3,4,6-tetrachlorophenol	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
2-naphthylamine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
5-nitro-o-toluidine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
SVOCs in Soil						Base Duplicate %RPD		
diphenylamine	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
phenacetin	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
pentachloronitrobenzene	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
dinoseb	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
methapyriline	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
p-dimethylaminoazobenzen e	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
2-acetylaminofluorene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
7,12-dimethylbenz(a) anthracene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
3-methylcholanthrene	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
a-BHC	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
b-BHC	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
g-BHC	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
d-BHC	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Heptachlor	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Aldrin	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	86%
Heptachlor Epoxide	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
g-Chlordane	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
a-Chlordane	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Endosulfan I	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
p,p'-DDE	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Dieldrin	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	LCS-3	89%
Endrin	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
p,p'-DDD	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Endosulfan II	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
p,p'-DDT	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Endrin Ketone	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.5	Org-012	<0.5	160571-1	<0.5 <0.5	[NR]	[NR]
Methoxychlor	mg/kg	1	Org-012	<1	160571-1	<1 <1	[NR]	[NR]
Surrogate 2-fluorophenol	%		Org-012	76	160571-1	75 80 RPD: 6	LCS-3	81%
Surrogate Phenol-d ₆	%		Org-012	53	160571-1	50 53 RPD: 6	LCS-3	62%
Surrogate Nitrobenzene-d ₅	%		Org-012	86	160571-1	65 60 RPD: 8	LCS-3	89%
Surrogate 2-fluorobiphenyl	%		Org-012	87	160571-1	101 113 RPD: 11	LCS-3	90%
Surrogate 2,4,6-Tribromophenol	%		Org-012	59	160571-1	83 92 RPD: 10	LCS-3	57%
Surrogate p-Terphenyl-d ₁₄	%		Org-012	95	160571-1	94 95 RPD: 1	LCS-3	93%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			24/01/2017	[NT]	[NT]	LCS-3	24/01/2017
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-3	93%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-3	93%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-3	95%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-3	95%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-3	88%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-3	93%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-3	92%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	73	[NT]	[NT]	LCS-3	90%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-3	113%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-3	117%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-3	106%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-3	113%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-3	117%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-3	106%
Surrogate o-Terphenyl	%		Org-003	96	[NT]	[NT]	LCS-3	101%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Naphthalene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	98%
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	99%
Phenanthrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	107%
Anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	97%
Pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	97%
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-3	102%
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-012	<0.2	[NT]	[NT]	[NR]	[NR]

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	[NT]	[NT]	LCS-3	87%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	86	[NT]	[NT]	LCS-3	124%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	102%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	110%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	107%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	102%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	107%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	110%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	114%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	110%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	100%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-3	107%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	110	[NT]	[NT]	LCS-3	126%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	103%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	76%
Dimethoate	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	89%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	98%
Malathion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	104%
Parathion	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	108%
Ronnel	mg/kg	0.1	Org-008	<0.1	[NT]	[NT]	LCS-3	122%
Surrogate TCMX	%		Org-008	110	[NT]	[NT]	LCS-3	106%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-3	123%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	110	[NT]	[NT]	LCS-3	106%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date prepared	-			23/01/2017	[NT]	[NT]	LCS-3	23/01/2017
Date analysed	-			24/01/2017	[NT]	[NT]	LCS-3	24/01/2017
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	LCS-3	91%
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	LCS-3	88%
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	LCS-3	95%
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	LCS-3	96%
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	LCS-3	88%
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	LCS-3	99%
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	LCS-3	92%
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	LCS-3	88%
QUALITYCONTROL SVOCs in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	[NT]		[NT]		160571-1	23/01/2017	
Date analysed	-	[NT]		[NT]		160571-1	23/01/2017	
Phenol	mg/kg	[NT]		[NT]		160571-1	45%	
Bis-(2-chloroethyl) ether	mg/kg	[NT]		[NT]		[NR]	[NR]	
2-Chlorophenol	mg/kg	[NT]		[NT]		160571-1	26%	
1,3-Dichlorobenzene	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,4-Dichlorobenzene	mg/kg	[NT]		[NT]		160571-1	81%	
2-Methylphenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,2-Dichlorobenzene	mg/kg	[NT]		[NT]		[NR]	[NR]	
Bis (2-chloroisopropyl) ether	mg/kg	[NT]		[NT]		[NR]	[NR]	
3/4-Methylphenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
N-nitrosodi-n-propylamine	mg/kg	[NT]		[NT]		[NR]	[NR]	
Hexachloroethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
Nitrobenzene	mg/kg	[NT]		[NT]		[NR]	[NR]	
Isophorone	mg/kg	[NT]		[NT]		[NR]	[NR]	
2,4-Dimethylphenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
2-Nitrophenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
Bis(2-chloroethoxy) methane	mg/kg	[NT]		[NT]		[NR]	[NR]	
2,4-Dichlorophenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,2,4-Trichlorobenzene	mg/kg	[NT]		[NT]		[NR]	[NR]	
Naphthalene	mg/kg	[NT]		[NT]		[NR]	[NR]	
4-Chloroaniline	mg/kg	[NT]		[NT]		[NR]	[NR]	
Hexachlorobutadiene	mg/kg	[NT]		[NT]		[NR]	[NR]	
4-Chloro-3-methylphenol	mg/kg	[NT]		[NT]		[NR]	[NR]	
2-Methylnaphthalene	mg/kg	[NT]		[NT]		[NR]	[NR]	
Hexachlorocyclopentadiene	mg/kg	[NT]		[NT]		[NR]	[NR]	
2,4,6-trichlorophenol	mg/kg	[NT]		[NT]		[NR]	[NR]	

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
2,4,5-trichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Chloronaphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Dimethylphthalate	mg/kg	[NT]	[NT]	160571-1	76%
2,6-Dinitrotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
3-Nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	160571-1	76%
2,4-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
4-nitrophenol	mg/kg	[NT]	[NT]	160571-1	102%
Dibenzofuran	mg/kg	[NT]	[NT]	[NR]	[NR]
diethylphthalate	mg/kg	[NT]	[NT]	160571-1	73%
4-chlorophenylphenylether	mg/kg	[NT]	[NT]	[NR]	[NR]
4-nitroaniline	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
azobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-bromophenylphenylether	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
carbazole	mg/kg	[NT]	[NT]	[NR]	[NR]
di-n-butylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Pyrene	mg/kg	[NT]	[NT]	160571-1	140%
butylbenzylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
bis(2-ethylhexyl)phthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	[NR]	[NR]
di-n-octylphthalate	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(b+j+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
ethylmethanesulfonate	mg/kg	[NT]	[NT]	[NR]	[NR]
aniline	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
benzyl alcohol	mg/kg	[NT]	[NT]	[NR]	[NR]
acetophenone	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitrosomorpholine	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
N-nitrosopiperidine	mg/kg	[NT]	[NT]	[NR]	[NR]
2,6-dichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachloropropene-1	mg/kg	[NT]	[NT]	[NR]	[NR]
N-nitroso-n-butylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
safole	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4,5-tetrachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
cis and trans iso-safole	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dinitrobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1-naphthylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
2,3,4,6-tetrachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-naphthylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
5-nitro-o-toluidine	mg/kg	[NT]	[NT]	[NR]	[NR]
diphenylamine	mg/kg	[NT]	[NT]	[NR]	[NR]
phenacetin	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachloronitrobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
dinoseb	mg/kg	[NT]	[NT]	[NR]	[NR]
methapyrilene	mg/kg	[NT]	[NT]	[NR]	[NR]
p- dimethylaminoazobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-acetylaminofluorene	mg/kg	[NT]	[NT]	[NR]	[NR]
7,12-dimethylbenz(a) anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
3-methylcholanthrene	mg/kg	[NT]	[NT]	[NR]	[NR]
a-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
b-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
g-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
d-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	160571-1	88%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	[NR]	[NR]
g-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
a-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
p,p'-DDE	mg/kg	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	[NT]	[NT]	160571-1	101%
Endrin	mg/kg	[NT]	[NT]	[NR]	[NR]
p,p'-DDD	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
p,p'-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	[NT]	[NT]	[NR]	[NR]

Client Reference: 52304, Walsh Bay

QUALITY CONTROL SVOCs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Endosulfan Sulphate	mg/kg	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate 2-fluorophenol	%	[NT]	[NT]	160571-1	99%
Surrogate Phenol-d ₆	%	[NT]	[NT]	160571-1	70%
Surrogate Nitrobenzene-d ₅	%	[NT]	[NT]	160571-1	91%
Surrogate 2-fluorobiphenyl	%	[NT]	[NT]	160571-1	90%
Surrogate 2,4,6-Tribromophenol	%	[NT]	[NT]	160571-1	90%
Surrogate p-Terphenyl-d ₁₄	%	[NT]	[NT]	160571-1	91%

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples 160571-1 were sub-sampled from jars provided by the client.

SVOC_S_SCAN:

The RPD for duplicate results is accepted due to the non homogenous nature of the sample/s.

Asbestos ID was analysed by Approved Identifier: Paul Ching

Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test

NR: Test not required

<: Less than

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

>: Greater than

NT: Not tested

NA: Test not required

LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

IMSO Forms013 – Chain of Custody - Generic

Appendix I Tabulated Quality Assurance/Quality Control

Field Duplicates (SOIL)
Filter: ALL

SDG	531205	531205	
Field ID	JBH06_0.75-0.85	QA20170119	RPD
Sampled Date/Time	19/01/2017	19/01/2017	

Method_T	ChemName	Units	EQL			
OPP	EPN	mg/kg	0.2	<0.2	<0.2	0
	Demeton-S	mg/kg	0.2	<0.2	<0.2	0
Heavy Met	Arsenic (T)	mg/kg	2 (Primary): 4 (Interlab)	<2.0	<2.0	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0
	Chromium	mg/kg	5 (Primary): 1 (Interlab)	5.0	6.8	31
	Copper	mg/kg	5 (Primary): 1 (Interlab)	89.0	26.0	110
	Lead	mg/kg	5 (Primary): 1 (Interlab)	42.0	170.0	121
	Mercury (I)	mg/kg	0.1	<0.1	<0.1	0
	Nickel	mg/kg	5 (Primary): 1 (Interlab)	7.9	<5.0	45
	Zinc	mg/kg	5 (Primary): 1 (Interlab)	52.0	81.0	44
al						
NA	Hexachloro	mg/kg	0.5	<0.5	<0.5	0
VOC	1,1,1,2-tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,1,1-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,1,2-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,1,2,2-tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,1-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,2,3-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,2-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,2-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,3-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Bromochlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Bromodich	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Carbon tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Chloroetha	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Chloroform	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Chloromet	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	dibromochl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Dichlorodif	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Dichlorome	mg/kg	0.5	0.8	<0.5	46
	Trichloroflu	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,1-Dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	3-chloroprop	mg/kg	0.5	<0.5	<0.5	0
	4-chlorotol	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	cis-1,2-dich	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	cis-1,3-dich	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Tetrachloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	trans-1,2-d	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	trans-1,3-d	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Trichloroet	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Vinyl Chlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
Organic	C6-C9 Fra	mg/kg	20 (Primary): 25 (Interlab)	<20.0	<20.0	0
TPH	C10-C14 F	mg/kg	20 (Primary): 50 (Interlab)	<20.0	<20.0	0
	C15-C28 F	mg/kg	50 (Primary): 100 (Interlab)	260.0	150.0	54
	C29-C36 F	mg/kg	50 (Primary): 100 (Interlab)	66.0	<50.0	28
	C10-C36 F	mg/kg	50	326.0	150.0	74
Organic	>C10-C16	mg/kg	50	<50.0	<50.0	0

Filter: ALL

Field Duplicates (SOIL)

Filter: ALL

SDG	531205	531205	
Field ID	JBH06_0.75-0.85	QA20170119	RPD
Sampled Date/Time	19/01/2017	19/01/2017	

	>C16-C34	mg/kg	100	330.0	200.0	49
	>C34-C40	mg/kg	100	<100.0	<100.0	0
	C6-C10 Fra	mg/kg	20 (Primary): 25 (Interlab	<20.0	<20.0	0
	C6 - C10 le	mg/kg	20 (Primary): 25 (Interlab	<20.0	<20.0	0
	>C10 - C16	mg/kg	50	<50.0	<50.0	0
VOC	Benzene	mg/kg	0.1 (Primary): 0.2 (Interlab	<0.1	<0.1	0
	Ethylbenze	mg/kg	0.1 (Primary): 1 (Interlab	<0.1	<0.1	0
	Toluene	mg/kg	0.1 (Primary): 0.5 (Interlab	<0.1	<0.1	0
	Xylene (m	mg/kg	0.2 (Primary): 2 (Interlab	<0.2	<0.2	0
	Xylene (o	mg/kg	0.1 (Primary): 1 (Interlab	<0.1	<0.1	0
	Xylene (To	mg/kg	0.3 (Primary): 1 (Interlab	<0.3	<0.3	0
Organic	Naphthale	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
PAH	Acenaphth	mg/kg	0.5 (Primary): 0.1 (Interlab	0.7	<0.5	33
	Acenaphth	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Anthracene	mg/kg	0.5 (Primary): 0.1 (Interlab	3.2	1.0	105
	Benz(a)ant	mg/kg	0.5 (Primary): 0.1 (Interlab	6.6	4.3	42
	Benzo(a)py	mg/kg	0.5 (Primary): 0.05 (Interlab	5.3	3.8	33
	Benzo(a)py	mg/kg	0.5	7.8	5.1	42
	Benzo(a)py	mg/kg	0.5	7.8	5.4	36
	Benzo(a)py	mg/kg	0.5	7.8	5.6	33
	Benzo(b,j)f	mg/kg	0.5	5.1	4.5	13
	Benzo(g,h,i)	mg/kg	0.5 (Primary): 0.1 (Interlab	2.6	2.1	21
	Benzo(k)flu	mg/kg	0.5	4.0	2.1	62
	Chrysene	mg/kg	0.5 (Primary): 0.1 (Interlab	5.1	3.2	46
	Dibenz(a,h)	mg/kg	0.5 (Primary): 0.1 (Interlab	0.6	<0.5	18
	Fluoranthene	mg/kg	0.5 (Primary): 0.1 (Interlab	16.0	6.6	83
	Fluorene	mg/kg	0.5 (Primary): 0.1 (Interlab	1.1	<0.5	75
	Indeno(1,2,3-cd)	mg/kg	0.5 (Primary): 0.1 (Interlab	2.3	1.8	24
	Naphthale	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Phenanthrene	mg/kg	0.5 (Primary): 0.1 (Interlab	14.0	1.0	173
	Pyrene	mg/kg	0.5 (Primary): 0.1 (Interlab	13.0	6.8	63
	PAHs (Total)	mg/kg	0.5	79.6	37.2	73
VOC	1,2,4-trime	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,3,5-trime	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Bromobenz	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Isopropylbe	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Styrene	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,2-dibrom	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	2-Butanone	mg/kg	0.5	<0.5	<0.5	0
	4-Methyl-2	mg/kg	0.5	<0.5	<0.5	0
	Bromoform	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Bromomet	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Dibromome	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Iodometha	mg/kg	0.5	<0.5	<0.5	0
NA	1,2,4,5-tetr	mg/kg	0.5	<0.5	<0.5	0
	1,2,4-trichl	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,2-Dichlor	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,3-dichlor	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0

Filter: ALL

Field Duplicates (SOIL)

Filter: ALL

SDG	531205	531205	
Field ID	JBH06_0.75-0.85	QA20170119	RPD
Sampled Date/Time	19/01/2017	19/01/2017	

	1,4-dichloro	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Hexachloro	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Pentachloro	mg/kg	0.5	<0.5	<0.5	0
OCP	Hexachloro	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
VOC	1,2-Dichloro	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,4-dichloro	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Chlorobenz	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
PCB	Aroclor 101	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Aroclor 122	mg/kg	0.1	<0.1	<0.1	0
	Aroclor 123	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Aroclor 124	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Aroclor 124	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Aroclor 125	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	Aroclor 126	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
	PCBs (Total)	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5	0
VOC	Carbon dis	mg/kg	0.5	<0.5	<0.5	0
NA	Hexachloro	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	Hexachloro	mg/kg	1 (Primary): 2 (Interlab)	<1.0	<1.0	0
OCP	4,4-DDE	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Aldrin	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	alpha-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	beta-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	DDD	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Dieldrin	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	DDT	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Chlordane	mg/kg	0.1	<0.1	<0.1	0
	delta-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endrin	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endrin alde	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Endrin keto	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Heptachlor	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Heptachlor	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Lindane	mg/kg	0.05 (Primary): 0.5 (Interlab	<0.05	<0.05	0
	Methoxych	mg/kg	0.2 (Primary): 1 (Interlab	<0.2	<0.2	0
	Toxaphene	mg/kg	1	<1.0	<1.0	0
OPP	Azinphos n	mg/kg	0.2 (Primary): 0.1 (Interlab	<0.2	<0.2	0
	Chlorfenvir	mg/kg	0.2	<0.2	<0.2	0
	Chlorpyrifo	mg/kg	0.2 (Primary): 0.1 (Interlab	<0.2	<0.2	0
	Chlorpyrifo	mg/kg	0.2 (Primary): 0.1 (Interlab	<0.2	<0.2	0
	Coumapho	mg/kg	2	<2.0	<2.0	0
	Demeton-C	mg/kg	0.2	<0.2	<0.2	0
	Diazinon	mg/kg	0.2 (Primary): 0.1 (Interlab	<0.2	<0.2	0

Filter: ALL

Field Duplicates (SOIL)
Filter: ALL

SDG	531205	531205	
Field ID	JBH06_0.75-0.85	QA20170119	RPD
Sampled Date/Time	19/01/2017	19/01/2017	

	Dichlorvos	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Dimethoate	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Disulfoton	mg/kg	0.2	<0.2	<0.2	0
	Ethion	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Ethoprophos	mg/kg	0.2	<0.2	<0.2	0
	Fenitrothion	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Fensulfothion	mg/kg	0.2	<0.2	<0.2	0
	Fenthion	mg/kg	0.2	<0.2	<0.2	0
	Malathion	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Merphos	mg/kg	0.2	<0.2	<0.2	0
	Mevinphos	mg/kg	0.2	<0.2	<0.2	0
	Monocrotophos	mg/kg	2	<2.0	<2.0	0
	Omethoate	mg/kg	2	<2.0	<2.0	0
	Parathion	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Parathion methyl	mg/kg	0.2	<0.2	<0.2	0
	Phorate	mg/kg	0.2	<0.2	<0.2	0
	Pirimiphos	mg/kg	0.2	<0.2	<0.2	0
	Pyrazophos	mg/kg	0.2	<0.2	<0.2	0
	Ronnel	mg/kg	0.2 (Primary): 0.1 (Interl	<0.2	<0.2	0
	Sulprofos	mg/kg	0.2	<0.2	<0.2	0
	Terbufos	mg/kg	0.2	<0.2	<0.2	0
	Tetrachlorvos	mg/kg	0.2	<0.2	<0.2	0
	Tokuthion	mg/kg	0.2	<0.2	<0.2	0
	Trichlorfon	mg/kg	0.2	<0.2	<0.2	0
Asbestos	Approx. Sa	G		94.0	106.0	12
	Asbestos fibre	%w/w		0.0	0.0	0
	Asbestos fibre	%w/w		0.0	0.0	0
	Mass ACM	G		0.0	0.0	0
	Mass Asbestos	G		0.0	0.0	0
	Mass FA	G		0.0	0.0	0
	Mass Asbestos	G		0.0	0.0	0
	Mass AF	G		0.0	0.0	0
	Mass Asbestos	G		0.0	0.0	0
	Mass Asbestos	G		0.0	0.0	0
	Synthetic Fibre	COMMEN		1.0	1.0	0
	ACM - Contaminant	COMMEN		1.0	1.0	0
	AF - Contaminant	COMMEN		1.0	1.0	0
	FA - Contaminant	COMMEN		1.0	1.0	0
	Organic Fibre	COMMEN		1.0	1.0	0
	Respirable Fibre	COMMEN		1.0	1.0	0
Inorganic	% Moisture	%	1	15.0	16.0	6
VOC	2-Propanol	mg/kg	0.5	4.2	<0.5	157

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. A

Field Duplicates (SOIL)
Filter: ALL

SDG	531205	ENVIROLAB 2017-01-20T00:00:00
Field ID	JBH06_0.75-0.85	QC20170119
Sampled Date/Time	19/01/2017	19/01/2017
		RPD

Method_T	ChemName	Units	EQL			
OPP	EPN	mg/kg	0.2	<0.2		
	Demeton-S	mg/kg	0.2	<0.2		
Heavy Met	Arsenic (T)	mg/kg	2 (Primary): 4 (Interlab)	<2.0	<4.0	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0
	Chromium	mg/kg	5 (Primary): 1 (Interlab)	5.0	5.0	0
	Copper	mg/kg	5 (Primary): 1 (Interlab)	89.0	45.0	66
	Lead	mg/kg	5 (Primary): 1 (Interlab)	42.0	65.0	43
	Mercury (I)	mg/kg	0.1	<0.1	<0.1	0
	Nickel	mg/kg	5 (Primary): 1 (Interlab)	7.9	5.0	45
	Zinc	mg/kg	5 (Primary): 1 (Interlab)	52.0	57.0	9
al						
NA	Hexachloro	mg/kg	0.5	<0.5	<0.5	0
VOC	1,1,1,2-tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,1,1-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,1,2-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,1,2,2-tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,1-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,2,3-trichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,2-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,2-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,3-dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Bromochlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Bromodichl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Carbon tetr	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Chloroetha	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Chloroform	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Chloromet	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	dibromochl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Dichlorodif	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Dichlorome	mg/kg	0.5	0.8		
	Trichloroflu	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	1,1-Dichlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	3-chloroprop	mg/kg	0.5	<0.5		
	4-chlorotol	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	cis-1,2-dich	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	cis-1,3-dich	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Tetrachloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	trans-1,2-d	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	trans-1,3-d	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Trichloroet	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
	Vinyl Chlor	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
Organic	C6-C9 Fra	mg/kg	20 (Primary): 25 (Interlab)	<20.0	<25.0	0
TPH	C10-C14 F	mg/kg	20 (Primary): 50 (Interlab)	<20.0	<50.0	0
	C15-C28 F	mg/kg	50 (Primary): 100 (Interlab)	260.0	<100.0	89
	C29-C36 F	mg/kg	50 (Primary): 100 (Interlab)	66.0	<100.0	0
	C10-C36 F	mg/kg	50	326.0		
Organic	>C10-C16	mg/kg	50	<50.0	<50.0	0

Filter: ALL

Field Duplicates (SOIL)
Filter: ALL

SDG	531205	ENVIROLAB 2017-01-20T00:00:00
Field ID	JBH06_0.75-0.85	QC20170119
Sampled Date/Time	19/01/2017	19/01/2017
		RPD

	>C16-C34	mg/kg	100	330.0	150.0	75
	>C34-C40	mg/kg	100	<100.0	<100.0	0
	C6-C10 Fra	mg/kg	20 (Primary): 25 (Interlab	<20.0	<25.0	0
	C6 - C10 le	mg/kg	20 (Primary): 25 (Interlab	<20.0	<25.0	0
	>C10 - C16	mg/kg	50	<50.0	<50.0	0
VOC	Benzene	mg/kg	0.1 (Primary): 0.2 (Interlab	<0.1	<0.2	0
	Ethylbenze	mg/kg	0.1 (Primary): 1 (Interlab	<0.1	<1.0	0
	Toluene	mg/kg	0.1 (Primary): 0.5 (Interlab	<0.1	<0.5	0
	Xylene (m	mg/kg	0.2 (Primary): 2 (Interlab	<0.2	<2.0	0
	Xylene (o)	mg/kg	0.1 (Primary): 1 (Interlab	<0.1	<1.0	0
	Xylene (To	mg/kg	0.3 (Primary): 1 (Interlab	<0.3	<1.0	0
Organic	Naphthaler	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.1	0
PAH	Acenaphth	mg/kg	0.5 (Primary): 0.1 (Interlab	0.7	<0.1	33
	Acenaphth	mg/kg	0.5 (Primary): 0.1 (Interlab	<0.5	<0.5 - 0.7	33
	Anthracene	mg/kg	0.5 (Primary): 0.1 (Interlab	3.2	<0.5 - 0.9	146
	Benz(a)ant	mg/kg	0.5 (Primary): 0.1 (Interlab	6.6	3.0 - 3.1	75
	Benzo(a)py	mg/kg	0.5 (Primary): 0.05 (Interlab	5.3	3.0	55
	Benzo(a)py	mg/kg	0.5	7.8	4.6	52
	Benzo(a)py	mg/kg	0.5	7.8	4.6	52
	Benzo(a)py	mg/kg	0.5	7.8	4.6	52
	Benzo(b,j)f	mg/kg	0.5	5.1		
	Benzo(g,h,i)	mg/kg	0.5 (Primary): 0.1 (Interlab	2.6	1.0 - 2.3	89
	Benzo(k)flu	mg/kg	0.5	4.0		
	Chrysene	mg/kg	0.5 (Primary): 0.1 (Interlab	5.1	3.0 - 3.7	52
	Dibenz(a,h)	mg/kg	0.5 (Primary): 0.1 (Interlab	0.6	<0.5 - 0.7	18
	Fluoranthene	mg/kg	0.5 (Primary): 0.1 (Interlab	16.0	5.0 - 5.7	95
	Fluorene	mg/kg	0.5 (Primary): 0.1 (Interlab	1.1	<0.5 - 0.1	75
	Indeno(1,2,3-cd)	mg/kg	0.5 (Primary): 0.1 (Interlab	2.3	1.0 - 1.9	79
	Naphthalene	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.5 (Primary): 0.1 (Interlab	14.0	1.0 - 1.8	173
	Pyrene	mg/kg	0.5 (Primary): 0.1 (Interlab	13.0	5.0 - 5.4	89
	PAHs (Total)	mg/kg	0.5	79.6		
VOC	1,2,4-trime	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	1,3,5-trime	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Bromobenz	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Isopropylbe	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Styrene	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	1,2-dibrom	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	2-Butanone	mg/kg	0.5	<0.5		
	4-Methyl-2	mg/kg	0.5	<0.5		
	Bromoform	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Bromomet	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Dibromome	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<1.0	0
	Iodometha	mg/kg	0.5	<0.5		
NA	1,2,4,5-tetr	mg/kg	0.5	<0.5	<0.5	0
	1,2,4-trichl	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,2-Dichlor	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0
	1,3-dichlor	mg/kg	0.5 (Primary): 1 (Interlab	<0.5	<0.5	0

Filter: ALL

Field Duplicates (SOIL)

Filter: ALL

SDG	531205	ENVIROLAB 2017-01-20T00:00:00
Field ID	JBH06_0.75-0.85	QC20170119
Sampled Date/Time	19/01/2017	19/01/2017
		RPD

	1,4-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Hexachloro	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Pentachloro	mg/kg	0.5	<0.5	<0.5	0
OCP	Hexachloro	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
VOC	1,2-Dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	1,4-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Chlorobenz	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0
PCB	Aroclor 101	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Aroclor 122	mg/kg	0.1	<0.1	<0.1	0
	Aroclor 123	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Aroclor 124	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Aroclor 124	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Aroclor 125	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	Aroclor 126	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
	PCBs (Total)	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0
VOC	Carbon dis	mg/kg	0.5	<0.5		
NA	Hexachloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.5	0
	Hexachloro	mg/kg	1 (Primary): 2 (Interlab)	<1.0	<2.0	0
OCP	4,4-DDE	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Aldrin	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	alpha-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	beta-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	DDD	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Dieldrin	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	DDT	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Chlordane	mg/kg	0.1	<0.1		
	delta-BHC	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endosulfar	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endrin	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endrin alde	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Endrin keto	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.5	0
	Heptachlor	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Heptachlor	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Lindane	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.1	0
	Methoxych	mg/kg	0.2 (Primary): 1 (Interlab)	<0.2	<0.1	0
	Toxaphene	mg/kg	1	<1.0		
OPP	Azinphos n	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Chlorfenvir	mg/kg	0.2	<0.2		
	Chlorpyrifo	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Chlorpyrifo	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Coumapho	mg/kg	2	<2.0		
	Demeton-C	mg/kg	0.2	<0.2		
	Diazinon	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0

Filter: ALL

Field Duplicates (SOIL)
Filter: ALL

SDG	531205	ENVIROLAB 2017-01-20T00:00:00	
Field ID	JBH06_0.75-0.85	QC20170119	RPD
Sampled Date/Time	19/01/2017	19/01/2017	

	Dichlorvos	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Dimethoate	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Disulfoton	mg/kg	0.2	<0.2		
	Ethion	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Ethoprophos	mg/kg	0.2	<0.2		
	Fenitrothion	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Fensulfothion	mg/kg	0.2	<0.2		
	Fenthion	mg/kg	0.2	<0.2		
	Malathion	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Merphos	mg/kg	0.2	<0.2		
	Mevinphos	mg/kg	0.2	<0.2		
	Monocrotophos	mg/kg	2	<2.0		
	Omethoate	mg/kg	2	<2.0		
	Parathion	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Parathion methyl	mg/kg	0.2	<0.2		
	Phorate	mg/kg	0.2	<0.2		
	Pirimiphos	mg/kg	0.2	<0.2		
	Pyrazophos	mg/kg	0.2	<0.2		
	Ronnel	mg/kg	0.2 (Primary): 0.1 (Interlab)	<0.2	<0.1	0
	Sulprofos	mg/kg	0.2	<0.2		
	Terbufos	mg/kg	0.2	<0.2		
	Tetrachlorvos	mg/kg	0.2	<0.2		
	Tokuthion	mg/kg	0.2	<0.2		
	Trichlorfon	mg/kg	0.2	<0.2		
Asbestos	Approx. Sample	G		94.0		
	Asbestos fibre	%w/w		0.0		
	Asbestos fibre	%w/w		0.0		
	Mass ACM	G		0.0		
	Mass Asbestos	G		0.0		
	Mass FA	G		0.0		
	Mass Asbestos	G		0.0		
	Mass AF	G		0.0		
	Mass Asbestos	G		0.0		
	Mass Asbestos	G		0.0		
	Synthetic Fibre	COMMEN		1.0		
	ACM - Contaminant	COMMEN		1.0		
	AF - Contaminant	COMMEN		1.0		
	FA - Contaminant	COMMEN		1.0		
	Organic Fibre	COMMEN		1.0		
	Respirable	COMMEN		1.0		
Inorganic	% Moisture	%	1	15.0		
VOC	2-Propanol	mg/kg	0.5	4.2		

*RPDs have only been considered where a concentration is

**High RPDs are in bold (Acceptable RPDs for each EQL m-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis using methods in the row header relate to those used in the primary lab

Field Blanks (WATER)
Filter: ALL

SDG	531205	531205
Field ID	RB20170120	TB20170120
Sampled Date/Time	20/01/2017	20/01/2017
Sample Type	Rinsate	Trip_B

Method_Type	ChemName	Units	EQL		
Heavy Metal	Arsenic (Total)	mg/l	0.001	<0.001	
	Cadmium	mg/l	0.0002	<0.0002	
	Chromium (Total)	mg/l	0.001	<0.001	
	Copper	mg/l	0.001	<0.001	
	Lead	mg/l	0.001	<0.001	
	Mercury (Inorganic)	mg/l	0.0001	<0.0001	
	Nickel	mg/l	0.001	<0.001	
	Zinc	mg/l	0.005	<0.005	
NA	Hexachloroethane	mg/l	0.002	<0.002	
	1,2,4,5-tetrachlorobenzene	mg/l	0.002	<0.002	
	1,2,4-trichlorobenzene	mg/l	0.002	<0.002	
	1,2-Dichlorobenzene	mg/l	0.002	<0.002	
	1,3-dichlorobenzene	mg/l	0.002	<0.002	
	1,4-dichlorobenzene	mg/l	0.002	<0.002	
	Hexachlorobenzene	mg/l	0.002	<0.002	
	Pentachlorobenzene	mg/l	0.002	<0.002	
	Hexachlorobutadiene	mg/l	0.002	<0.002	
	Hexachlorocyclopentadiene	mg/l	0.004	<0.004	
Organic	trans-1,2-dichloroethene	mg/l	0.001		
	C6-C9 Fraction	mg/l	0.02	<0.02	
	>C10-C16 Fraction	mg/l	0.05	<0.05	
	>C16-C34 Fraction	mg/l	0.1	<0.1	
	>C34-C40 Fraction	mg/l	0.1	<0.1	
	C6-C10 Fraction	mg/l	0.02	<0.02	
	C6 - C10 less BTEX (F1)	mg/l	0.02	<0.02	
	>C10 - C16 less Naphthalene (F2)	mg/l	0.05	<0.05	
	Naphthalene	mg/l	0.01	<0.01	
PAH	Acenaphthene	mg/l	0.001	<0.001	
	Acenaphthylene	mg/l	0.001	<0.001	
	Anthracene	mg/l	0.001	<0.001	
	Benz(a)anthracene	mg/l	0.001	<0.001	
	Benzo(a)pyrene	mg/l	0.001	<0.001	
	Benzo(b,j)fluoranthene	mg/l	0.001	<0.001	
	Benzo(g,h,i)perylene	mg/l	0.001	<0.001	
	Benzo(k)fluoranthene	mg/l	0.001	<0.001	
	Chrysene	mg/l	0.001	<0.001	
	Dibenz(a,h)anthracene	mg/l	0.001	<0.001	
	Fluoranthene	mg/l	0.001	<0.001	
	Fluorene	mg/l	0.001	<0.001	
	Indeno(1,2,3-c,d)pyrene	mg/l	0.001	<0.001	
	Naphthalene	mg/l	0.001	<0.001	
	Phenanthrene	mg/l	0.001	<0.001	
	Pyrene	mg/l	0.001	<0.001	
	PAHs (Total)	mg/l	0.001	<0.001	
SVOC	Hexachloroethane	mg/l	0.002		
	1,2,4,5-tetrachlorobenzene	mg/l	0.002		
	1,2,4-trichlorobenzene	mg/l	0.002		
	1,2-Dichlorobenzene	mg/l	0.002		
	1,3-dichlorobenzene	mg/l	0.002		
	1,4-dichlorobenzene	mg/l	0.002		
	Hexachlorobenzene	mg/l	0.002		
	Pentachlorobenzene	mg/l	0.002		
	Hexachlorobutadiene	mg/l	0.002		
	Hexachlorocyclopentadiene	mg/l	0.004		
TPH	C10-C14 Fraction	mg/l	0.05	<0.05	
	C15-C28 Fraction	mg/l	0.1	<0.1	
	C29-C36 Fraction	mg/l	0.1	<0.1	
	C10-C36 Fraction (Total)	mg/l	0.1	<0.1	
VOC	1,1,1,2-tetrachloroethane	mg/l	0.001	<0.001	
	1,1,1-trichloroethane	mg/l	0.001	<0.001	
	1,1,2-trichloroethane	mg/l	0.001	<0.001	
	1,1,2,2-tetrachloroethane	mg/l	0.001	<0.001	
	1,1-dichloroethane	mg/l	0.001	<0.001	
	1,2,3-trichloropropane	mg/l	0.001	<0.001	
	1,2-dichloroethane	mg/l	0.001	<0.001	
	1,2-dichloropropane	mg/l	0.001	<0.001	
	1,3-dichloropropane	mg/l	0.001	<0.001	
	Bromochloromethane	mg/l	0.001	<0.001	
	Bromodichloromethane	mg/l	0.001	<0.001	
	Carbon tetrachloride	mg/l	0.001	<0.001	
	Chloroethane	mg/l	0.001	<0.001	
	Chloroform	mg/l	0.005	<0.005	
	Chloromethane	mg/l	0.001	<0.001	
	dibromochloromethane	mg/l	0.001	<0.001	
	Dichlorodifluoromethane	mg/l	0.001	<0.001	
	Dichloromethane	mg/l	0.001	<0.001	
	1,1-Dichloroethene	mg/l	0.001	<0.001	
	3-chloropropene	mg/l	0.001	<0.001	
	4-chlorotoluene	mg/l	0.001	<0.001	
	cis-1,2-dichloroethene	mg/l	0.001	<0.001	
	cis-1,3-dichloropropene	mg/l	0.001	<0.001	
	Tetrachloroethene	mg/l	0.001	<0.001	
	trans-1,2-dichloroethene	mg/l	0.001	<0.001	
	trans-1,3-dichloropropene	mg/l	0.001	<0.001	
	Trichloroethene	mg/l	0.001	<0.001	

Field Blanks (WATER)
Filter: ALL

			SDG Field ID Sampled_Date/Time Sample Type	531205 RB20170120 20/01/2017 Rinsate	531205 TB20170120 20/01/2017 Trip_B
	Trichlorofluoromethane	mg/l	0.001	<0.001	
	Vinyl Chloride	mg/l	0.001	<0.001	
	Benzene	mg/l	0.001	<0.001	
	Ethylbenzene	mg/l	0.001	<0.001	
	Toluene	mg/l	0.001	<0.001	
	Xylene (m & p)	mg/l	0.002	<0.002	
	Xylene (o)	mg/l	0.001	<0.001	
	Xylene (Total)	mg/l	0.003	<0.003	
	Naphthalene	mg/l	0.01		
	1,2,4-trimethyl benzene	mg/l	0.001	<0.001	
	1,3,5-trimethyl benzene	mg/l	0.001	<0.001	
	Bromobenzene	mg/l	0.001	<0.001	
	Isopropylbenzene	mg/l	0.001	<0.001	
	Styrene	mg/l	0.001	<0.001	
	1,2-dibromoethane	mg/l	0.001	<0.001	
	2-Butanone (MEK)	mg/l	0.001	<0.001	
	4-Methyl-2-pentanone (MIBK)	mg/l	0.001	<0.001	
	Bromoform	mg/l	0.001	<0.001	
	Bromomethane	mg/l	0.001	<0.001	
	Dibromomethane	mg/l	0.001	<0.001	
	Iodomethane	mg/l	0.001	<0.001	
	1,2-Dichlorobenzene	mg/l	0.001	<0.001	
	1,3-dichlorobenzene	mg/l	0.001	<0.001	
	1,4-dichlorobenzene	mg/l	0.001	<0.001	
	Chlorobenzene	mg/l	0.001	<0.001	
	Carbon disulfide	mg/l	0.001	<0.001	
	2-Propanone (Acetone)	µg/l	1	<1	
Volatile	Benzene	mg/l	0.001		<0.001
	Ethylbenzene	mg/l	0.001		<0.001
	Toluene	mg/l	0.001		<0.001
	Xylene (m & p)	mg/l	0.002		<0.002
	Xylene (o)	mg/l	0.001		<0.001
	Xylene (Total)	mg/l	0.003		<0.003

Appendix J Borelogs and Field Notes

JBH01

Project Number: 52304

Client: Infrastructure NSW

Project Name: Walsh Bay Arts Precinct SSDA

Site Address: Walsh Bay Arts Precinct, NSW

Date: 19/01/2017

Logged By: Rohan Hammond

Contractor: Perfect Concrete

Total Hole Depth (mbgs): 0.25

Bore Diameter (mm): 100

Eastings (GDA 94):

Northings (GDA 94):

Zone/Area:

Reference Level: AHD

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Corer				Fill	Fill - ASPHALT		
	0.05			Fill	Fill - CONCRETE		
Hand Auger	0.24 0.25			Fill	Fill - Clayey Sandy GRAVEL Borehole JBH01 terminated at 0.25m	JBH01 0.24-0.25 PID = 0 ppm	End of hole at 0.25m bgs. Refusal on sandstone bedrock.
	0.5						
	1.0						



JBH02

Project Number: 52304

Client: Infrastructure NSW

Project Name: Walsh Bay Arts Precinct SSDA

Site Address: Walsh Bay Arts Precinct, NSW

Date: 19/01/2017

Logged By: Rohan Hammond

Contractor: Perfect Concrete

Total Hole Depth (mbgs): 0.7

Bore Diameter (mm): 100

Eastings (GDA 94):

Northings (GDA 94):

Zone/Area:

Reference Level: AHD

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Corer				Fill	Fill - CONCRETE - Slab 1		
	0.20			Fill	Fill - CONCRETE - Slab 2		
	0.40			Fill	Fill - CONCRETE - Slab 3		
	0.5						
Hand Auger	0.60			SANDSTONE	SANDSTONE - Bedrock	JBH02 0.6-0.7 PID = 0 ppm	
	0.70				Borehole JBH02 terminated at 0.7m		End of hole at 0.7m bgs. Refusal on sandstone bedrock.
	1.0						



JBH03

Project Number: 52304

Client: Infrastructure NSW

Project Name: Walsh Bay Arts Precinct SSDA

Site Address: Walsh Bay Arts Precinct, NSW

Date: 20/01/2017

Logged By: Rohan Hammond

Contractor: Perfect Concrete

Total Hole Depth (mbgs): 0.6

Bore Diameter (mm): 100

Eastings (GDA 94):

Northings (GDA 94):

Zone/Area:

Reference Level: AHD

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Corer				Fill	Fill - CONCRETE - Slab 1		
		0.15		Fill	Fill - CONCRETE - Slab 2		
		0.33		Fill	Fill - CONCRETE - Slab 3		
	0.5						
Hand Auger		0.50		SANDSTONE	SANDSTONE - Bedrock	JBH03 0.5-0.6 PID = 0 ppm	
		0.60			Borehole JBH03 terminated at 0.6m		End of hole at 0.6m bgs. Refusal on sandstone bedrock.
	1.0						



JBH05

Project Number: 52304

Client: Infrastructure NSW

Project Name: Walsh Bay Arts Precinct SSDA

Site Address: Walsh Bay Arts Precinct, NSW

Date: 19/01/2017

Logged By: Rohan Hammond

Contractor: Perfect Concrete

Total Hole Depth (mbgs): 0.75

Bore Diameter (mm): 100

Eastings (GDA 94):

Northings (GDA 94):

Zone/Area:

Reference Level: AHD

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Coring				Fill	Fill - CONCRETE - Slab 1		
		0.18			VOID		
	0.5	0.47		Fill	Fill - CONCRETE - Slab 2		
	1.0	0.75			Borehole JBH05 terminated at 0.75m		End of hole at 0.75m bgs. Equipment refusal - unable to penetrate slab at depth.



JBH06

Project Number: 52304

Client: Infrastructure NSW

Project Name: Walsh Bay Arts Precinct SSDA

Site Address: Walsh Bay Arts Precinct, NSW

Date: 19/01/2017

Logged By: Rohan Hammond

Contractor: Perfect Concrete

Total Hole Depth (mbgs): 0.9

Bore Diameter (mm): 100

Eastings (GDA 94):

Northings (GDA 94):

Zone/Area:

Reference Level: AHD

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Corer				Fill	Fill - CONCRETE - Slab 1		
	0.18				Subfloor VOID		
	0.47			Fill	Fill - CONCRETE - Slab 2		
Hand Auger	0.75			Fill	Fill - Gravelly SAND - Sandstone backfill, heterogeneous, damp, loose, coarse sand-boulders, well graded, no inclusions.	JBH06 0.75-0.85 PID = 0.3 ppm	
	0.90				Borehole JBH06 terminated at 0.9m		End of hole at 0.9m bgs. Refusal on sandstone bedrock.
	1.0						

Gas Calibration Certificate

Instrument **MX6**
Serial No. **15062D0-006**
Sensors **O₂, LEL, PID**



airmet

Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	✓				
	Operation (segments)	✓				
Grill Filter	Condition	✓				
	Seal	✓				
Pump	Operation					
	Filter					
	Flow					
	Valves, Diaphragm					
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	O ₂ LEL PID	✓ ✓ ✓	Low	High	TWA	STEL
			19.5%	23.5%	N/A	N/A
			5%LEL	10%LEL	N/A	N/A
			50ppm	100ppm	10ppm	25ppm
Alarms	Beeper	✓				
	Settings	✓				
Software	Version					
Datalogger	Operation					
Download	Operation					
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode	Aspirated mode				
Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
O ₂		20.9% Vol O ₂		Fresh Air	20.9% O ₂
LEL		50% LEL (Mentane)	NATA	SY131	50% LEL Methane
PID		98ppm Isobutylene	NATA	SY137	97.4ppm

Calibrated by:

Sophie Boler

Calibration date:

19-Jan-17

Next calibration due:

18-Jul-17

Vapour Purging Form



Project Number: 52204	Date: 20.1.17	Sampler/s. EH + NW
Site Address: Hickison Rd	Sample Method: MX5 (300mL/min)	Weather: fine

Field Measurements

[illegible]

Appendix K Results Summary Tables

Table A - Chemical Analytical Data
Project Number: 52304
Project Name: Walsh Bay Precinct



	Metals & Metalloids								Chlorinated Alkanes																	Chlorinated Alkenes							TPHs (NEPC 1999)					TRHs (NEPC 2013)											
	Arsenic (Total) mg/kg	Cadmium mg/kg	Chromium (Total) mg/kg	Copper mg/kg	Lead mg/kg	Mercury (Inorganic) mg/kg	Nickel mg/kg	Zinc mg/kg	1,1,1,2-tetrachloroethane mg/kg	1,1,1,1-tetrachloroethane mg/kg	1,1,2-trichloroethane mg/kg	1,1,2,2-tetrachloroethane mg/kg	1,1-dichloroethane mg/kg	1,2,3-trichloropropane mg/kg	1,2-dichloroethane mg/kg	1,2-dichloropropane mg/kg	1,3-dichloropropane mg/kg	Bromochloromethane mg/kg	Bromodichloromethane mg/kg	Carbon tetrachloride mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	1,1-dibromochloromethane mg/kg	Dichlorodifluoromethane mg/kg	Dichloromethane mg/kg	Hexachloroethane mg/kg	Trichlorofluoromethane mg/kg	1,1-Dichloroethene mg/kg	3-chloropropene mg/kg	Tetrachloroethene mg/kg	4-chlorotoluene mg/kg	cis-1,2-dichloroethene mg/kg	dis-1,2-dichloropropene mg/kg	trans-1,2-dichloroethene mg/kg	trans-1,3-dichloropropene mg/kg	Trichloroethene mg/kg	Vinyl Chloride mg/kg	C6-C9 Fraction mg/kg	C10-C14 Fraction mg/kg	C15-C28 Fraction mg/kg	C29-C36 Fraction mg/kg	C10-C36 Fraction (Total) mg/kg	>C10-C16 Fraction mg/kg	>C16-C34 Fraction mg/kg	>C34-C40 Fraction mg/kg	C6-C10 Fraction mg/kg	C6- C10 less BTEX (F1) mg/kg	>C10 - C16 less Naphthalene (F2) mg/kg
ECL	2.00	0.40	5.00	5.00	5.00	0.10	5.00	5.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	20.00	20.00	50.00	50.00	50.00	50.00	50.00	100.00	100.00	20.00	20.00	50.00
NEPM 2013 EIL - Commercial Industrial (generic)	160		310	85	1800		55	110																																									
NEPM 2013 EIL - Urban Residential (generic)	100		190	60	1100		30	70																																									
NEPM 2013 ESL Commercial and Industrial, Coarse Soil																																																	
NEPM 2013 Soil H1L D	3000	900	3600	240000	1500	730	6000	400000																																									
NEPM 2013 Soil H5L D - Sensitive Setting																																																	
NEPM 2013 Soil H5L D for Vapour Intrusion - Sand 0 to <1m																																																	

Sample ID	Location	Sample Depth	Sample Date	Lithological Type	Lab Report																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
JBH01_0.24-0.25	JBH01	0.24-0.25	19/01/2017	Fill	531205	3.7	<0.4	17	52	120	<0.1	14	150	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&

Data Comments

#1 ESDAT Combined. Some Analytes are missing from this Combined Compound.

#2 ESDAT Combined with Non-Detect Multiplier of 0.5.

#3 No respirable fibres detected

#4 Organic fibres detected.

#5 ESDAT Combined.

#6 Nil

Table A - Chemical Analytical Data
Project Number: 52304
Project Name: Walsh Bay Precinct



	Asbestos														
	Approx. Sample Mass	Asbestos from ACM in Soil	Mass ACM	Mass Asbestos in ACM	Asbestos from FA & AF in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Synthetic Fibres - Comment	ACM - Comment	AF - Comment	FA - Comment	Organic Fibres - Comment
	g	%w/w	g	g	%w/w	g	g	g	g	g	Comment	Comment	Comment	Comment	Comment
ECL															
NEPM 2013 EIL - Commercial Industrial (generic)															
NEPM 2013 EIL - Urban Residential (generic)															
NEPM 2013 ESL Commercial and Industrial, Coarse Soil															
NEPM 2013 Soil HII D															
NEPM 2013 Soil HSL D - Sensitive Setting															
NEPM 2013 Soil HSL D for Vapour Intrusion - Sand 0 to <2mm															

Sample ID	Location	Sample Depth	Sample Date	Lithological Type	Lab Report											
JBH01_0.24-0.25	JBH01	0.24-0.25	19/01/2017	Fill	531205	122	0	0	0	0	0	0	0	0	0	1 st
JBH03_0.5-0.6	JBH03	0.5-0.6	19/01/2017	Fill	531205	60	0	0	0	0	0	0	0	0	0	1 st
JBH06_0.75-0.85	JBH06	0.75-0.85	19/01/2017	Fill	531205	94	0	0	0	0	0	0	0	0	0	1 st
QA20170119	JBH06	0.75-0.85	19/01/2017	Fill	531205	106	0	0	0	0	0	0	0	0	0	1 st

Data Comments

#1 ESDAT Combined. Some Analytes are missing from this Combined Compound.

#2 ESDAT Combined with Non-Detect Multiplier of 0.5.

#3 No respirable fibres detected

#4 Organic fibres detected.

#5 ESDAT Combined.

#6 Nil

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