

Soils

6-8 Woodburn Street, Redfern, NSW 2016

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

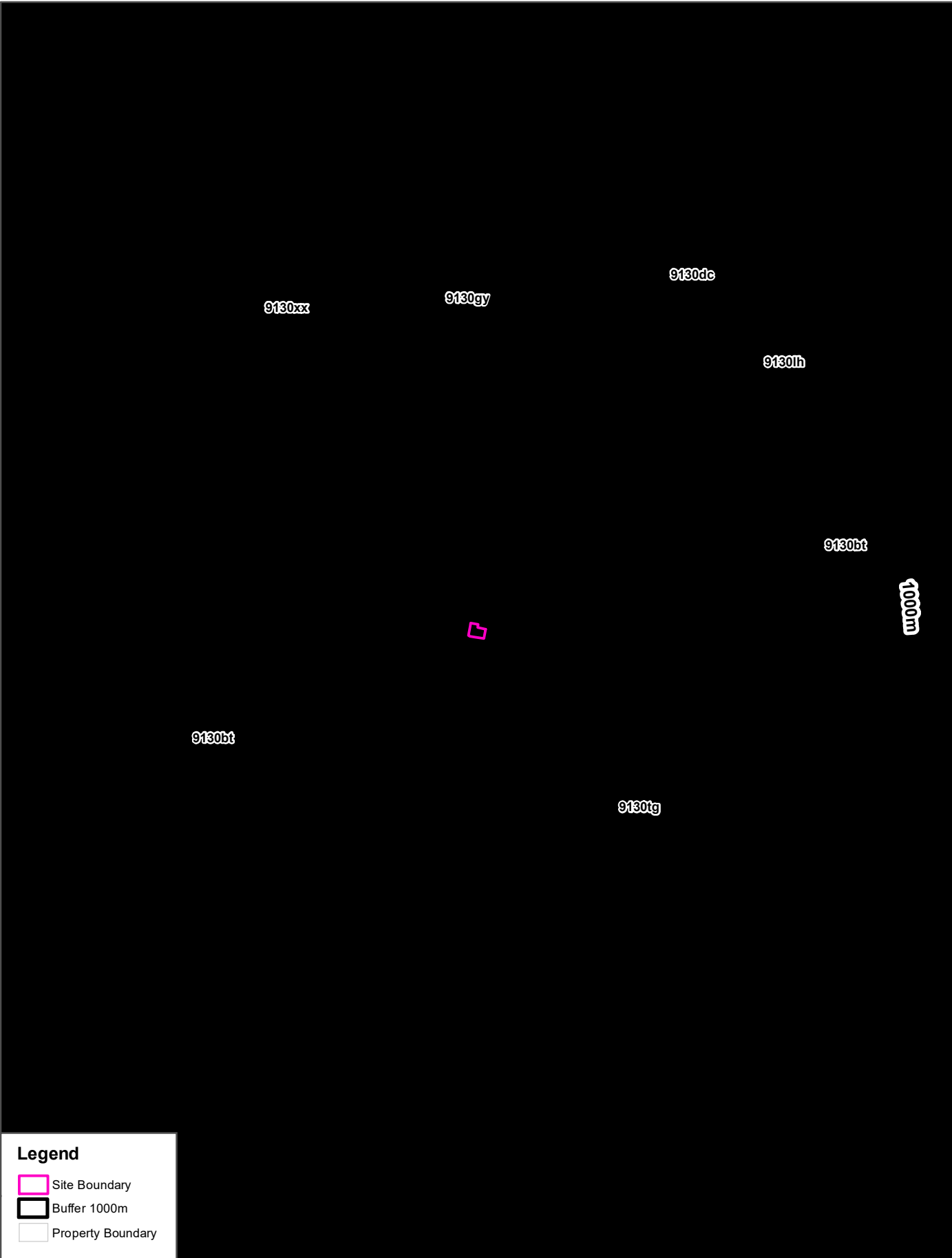
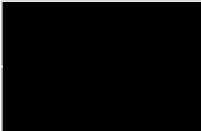
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Tb35	Sodosol	Dissected plateau remnants--flat to undulating ridge tops with moderate to steep side slopes: chief soils are hard acidic yellow and yellow mottled soils (Dy3.41), (Dy2.21), and (Dy2.41) and hard acidic red soils (Dr2.21); many shallow profiles occur and profile thickness varies considerably over short distances. Associated are: (Gn3.54), (Gn3.14), and possibly other (Gn3) soils; (Db1.2) soils on some ridges; (Dy5.81) soils in areas transitional to unit Mb2; soils common to unit Mb2; and eroded lateritic remnants. Small areas of other soils are likely. Flat ferruginous shale or sandstone fragments are common on and/or in and/or below the soils of this unit.	0m	On-site
Cb27	Podosol	Coastal sand plains and dunes, lagoons, and swampy areas: chief soils are leached sands (Uc2.3 and Uc2.2). Associated are dunes of siliceous sands (Uc1.2) and/or calcareous sands (Uc1.1) fringing the coastline; and swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Unit Cb27 has similarities with units Cb28 and Ca6.	0m	On-site
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	260m	West

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

6-8 Woodburn Street, Redfern, NSW 2016



Scale: 0 100 200 400 600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 September 2021
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Soils

6-8 Woodburn Street, Redfern, NSW 2016

Soil Landscapes of Central and Eastern NSW

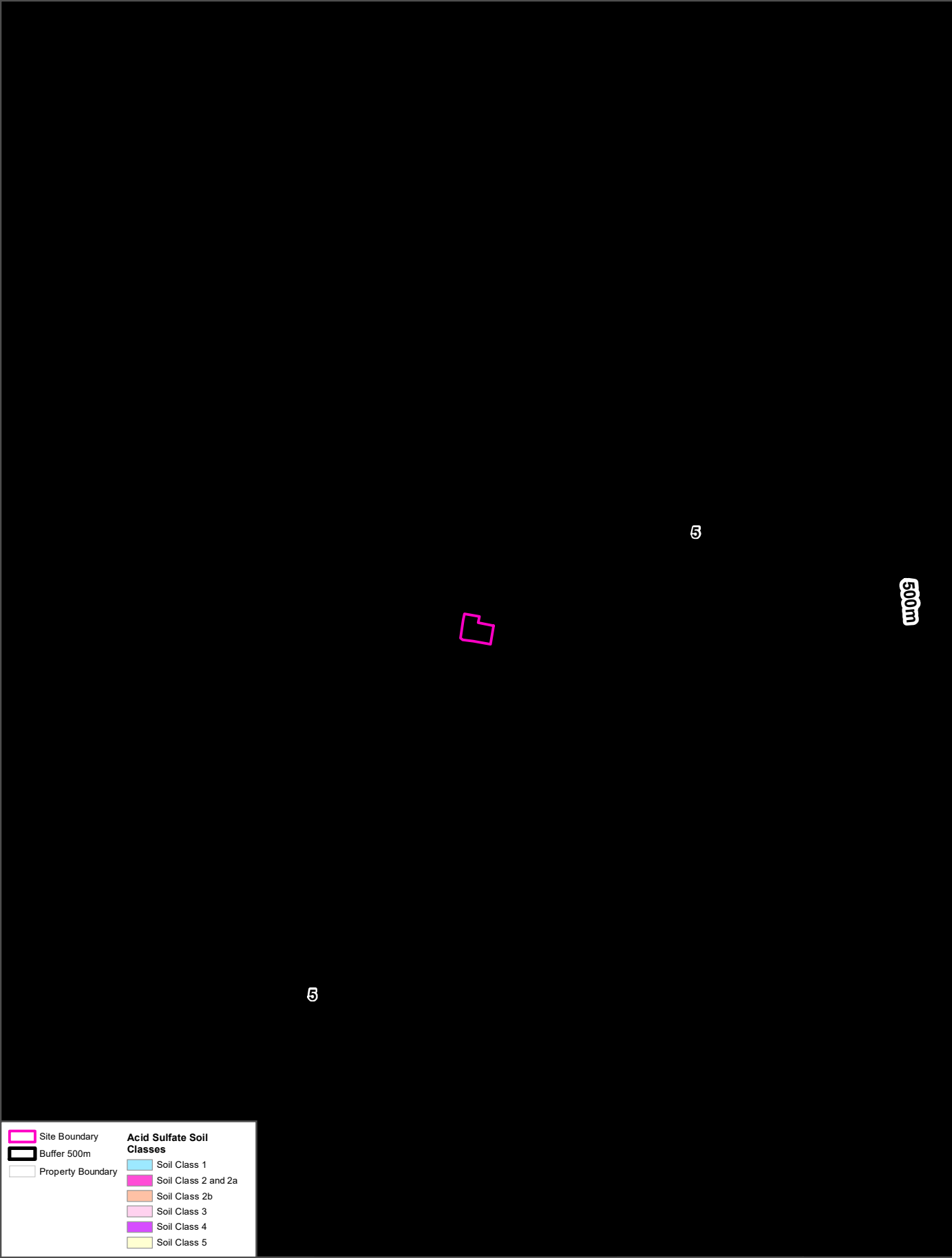
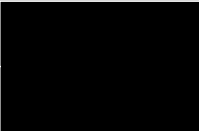
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9130bt	Blacktown	0m	On-site
9130xx	Disturbed Terrain	38m	North West
9130tg	Tuggerah	192m	South East
9130gy	Gymea	315m	North
9130lh	Lucas Heights	864m	North East
9130dc	Deep Creek	914m	North East

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment
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Acid Sulfate Soils

6-8 Woodburn Street, Redfern, NSW 2016



Site Boundary

Buffer 500m

Property Boundary

Acid Sulfate Soil Classes

Soil Class 1

Soil Class 2 and 2a

Soil Class 2b

Soil Class 3

Soil Class 4

Soil Class 5

Scale: 0100200 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 September 2021
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Acid Sulfate Soils

6-8 Woodburn Street, Redfern, NSW 2016

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

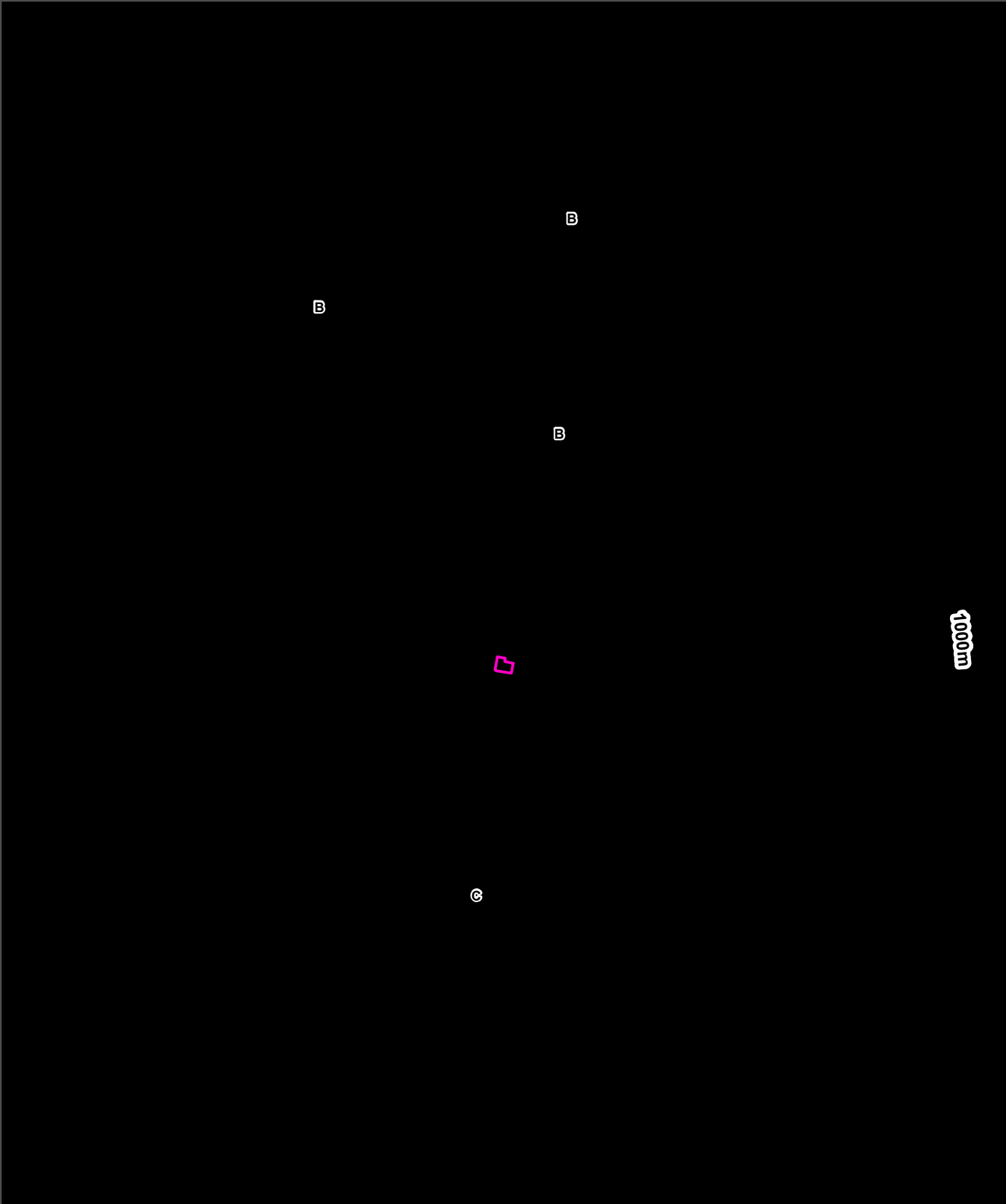
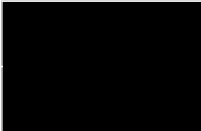
Soil Class	Description	EPI Name
N/A		

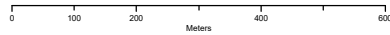
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Legend	
 Site Boundary	Probability of occurrence of Acid Sulfate Soils
 Buffer 1000m	 A. High (>70%)
 Property Boundary	 C. Extremely Low (1-5%)
	 No Data
	 B. Low (6-70%)
	 D. No Chance (0%)
Scale: 	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021
	Coordinate System: GDA 1994 MGA Zone 56
	Date: 22 September 2021

Acid Sulfate Soils

6-8 Woodburn Street, Redfern, NSW 2016

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

6-8 Woodburn Street, Redfern, NSW 2016

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

6-8 Woodburn Street, Redfern, NSW 2016

Mining Subsidence Districts

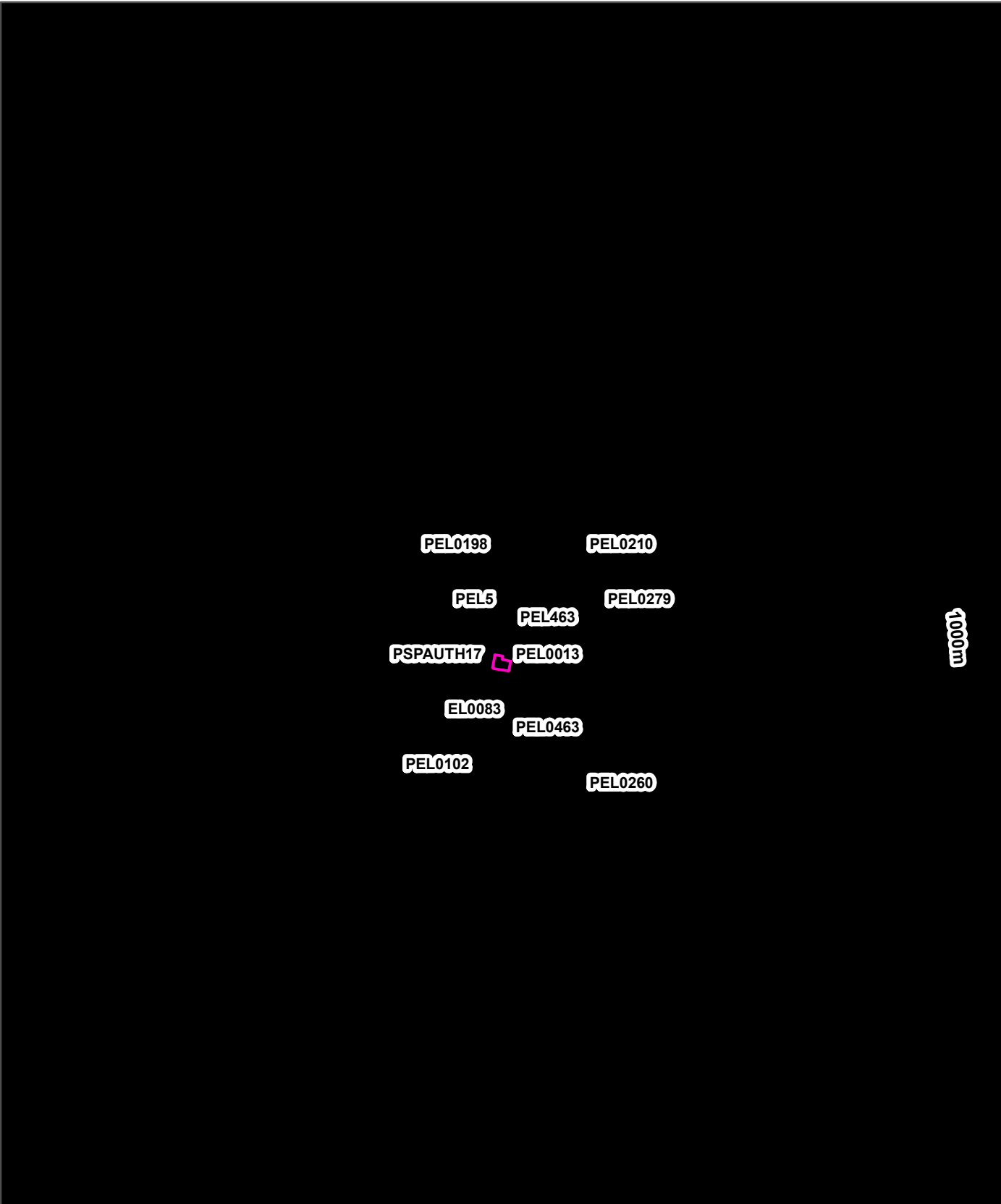
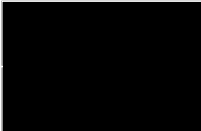
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

6-8 Woodburn Street, Redfern, NSW 2016



Legend

 Site Boundary

 Current Mining & Exploration Titles

 Buffer 1000m

 Current Mining & Exploration Title Applications

 Property Boundary

 Historical Mining & Exploration Titles

Scale: 0100200400600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 September 2021
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Mining

6-8 Woodburn Street, Redfern, NSW 2016

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

6-8 Woodburn Street, Redfern, NSW 2016

Historical Mining & Exploration Titles

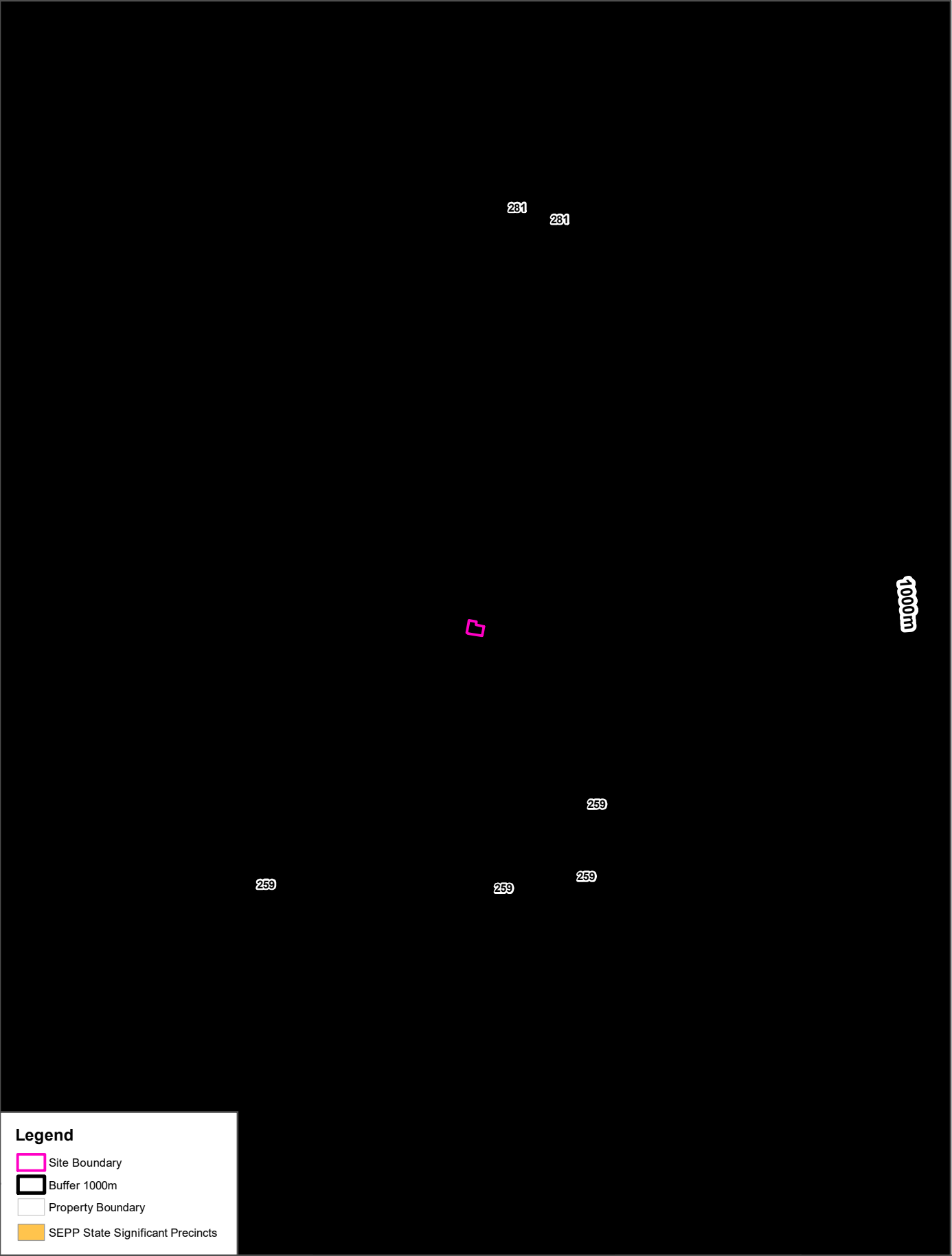
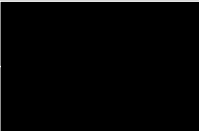
Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	On-site
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	17/04/1990	11/11/1993	PETROLEUM	Petroleum	0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		0m	On-site
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	On-site
PEL0198	JOHN STREVS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	0m	On-site
PEL0013	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

SEPP State Significant Precincts

6-8 Woodburn Street, Redfern, NSW 2016



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary
- SEPP State Significant Precincts

Scale: 0 100 200 400 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 September 2021
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State Environmental Planning Policy

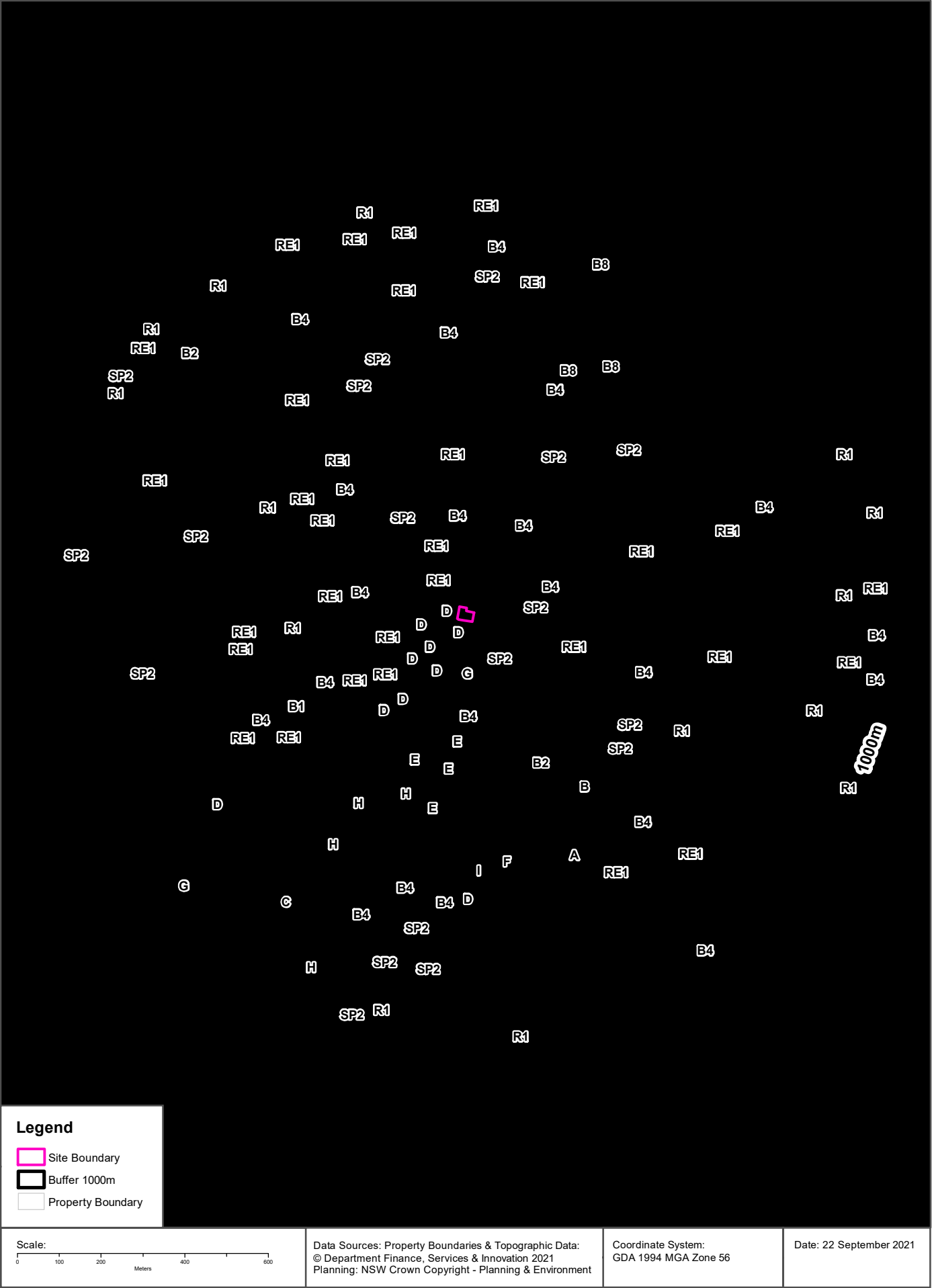
6-8 Woodburn Street, Redfern, NSW 2016

State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
259	Redfern-Waterloo Authority Sites	State Environmental Planning Policy (State Significant Precincts) 2005	16/03/2012	16/03/2012	16/03/2012	State Environmental Planning Policy (Major Development) Amendment (Redfern? Waterloo Authority Sites) 2012	0m	On-site
281	Darling Harbour	State Environmental Planning Policy (State Significant Precincts) 2005	28/09/2011	01/10/2011	01/10/2011	State Environmental Planning Policy (State and Regional Development) 2011	892m	North

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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Environmental Planning Instrument

6-8 Woodburn Street, Redfern, NSW 2016

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	0m	On-site
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	9m	West
G	Special Purposes Zone - Infrastructure		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	10m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		24m	East
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	47m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		49m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		69m	North West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		75m	North East
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	80m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		81m	South East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	90m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		90m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		110m	East
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	112m	South West
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/08/2020	14/08/2020	14/08/2020	State Environmental Planning Policy Amendment (Western Gateway Sub-precinct) 2020	115m	North East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		129m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		129m	East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		132m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		141m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		141m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		147m	North East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		152m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		171m	South West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		199m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		201m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		216m	East
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	218m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		218m	South East
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	241m	South West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		243m	South West
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		249m	South East
E	Business Zone - Commercial Core		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	263m	South
G	Special Purposes Zone - Infrastructure		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	264m	South West
E	Business Zone - Commercial Core		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	274m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		293m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		309m	South West
E	Business Zone - Commercial Core		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	310m	South
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		328m	South
B1	Neighbourhood Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		351m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		351m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		354m	North West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		373m	North West
H	Recreation Zone - Public Recreation		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	392m	South
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		401m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	402m	South West
E	Business Zone - Commercial Core		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	411m	South
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		419m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		440m	North West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		442m	East
H	Recreation Zone - Public Recreation		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	444m	South West
B	Business Zone - Local Centre		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	445m	South East
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		448m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		449m	North West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		462m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		482m	South West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		489m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		497m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		503m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		503m	West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		505m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		506m	North West
F	Special Purposes Zone - Community		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	506m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
C	Busines Zone - Local Centre		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	507m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		508m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		514m	West
I	Recreation Zone - Private Recreation		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	525m	South
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/08/2020	14/08/2020	14/08/2020	State Environmental Planning Policy Amendment (Western Gateway Sub-precinct) 2020	534m	North East
A	Residential Zone - Medium Density Residential		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	551m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		554m	South West
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		559m	North East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		559m	North
H	Recreation Zone - Public Recreation	Recreation Zone	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	571m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		575m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		584m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		588m	East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		608m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		611m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		616m	North West
B8	Metropolitan Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		617m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		623m	East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		626m	West

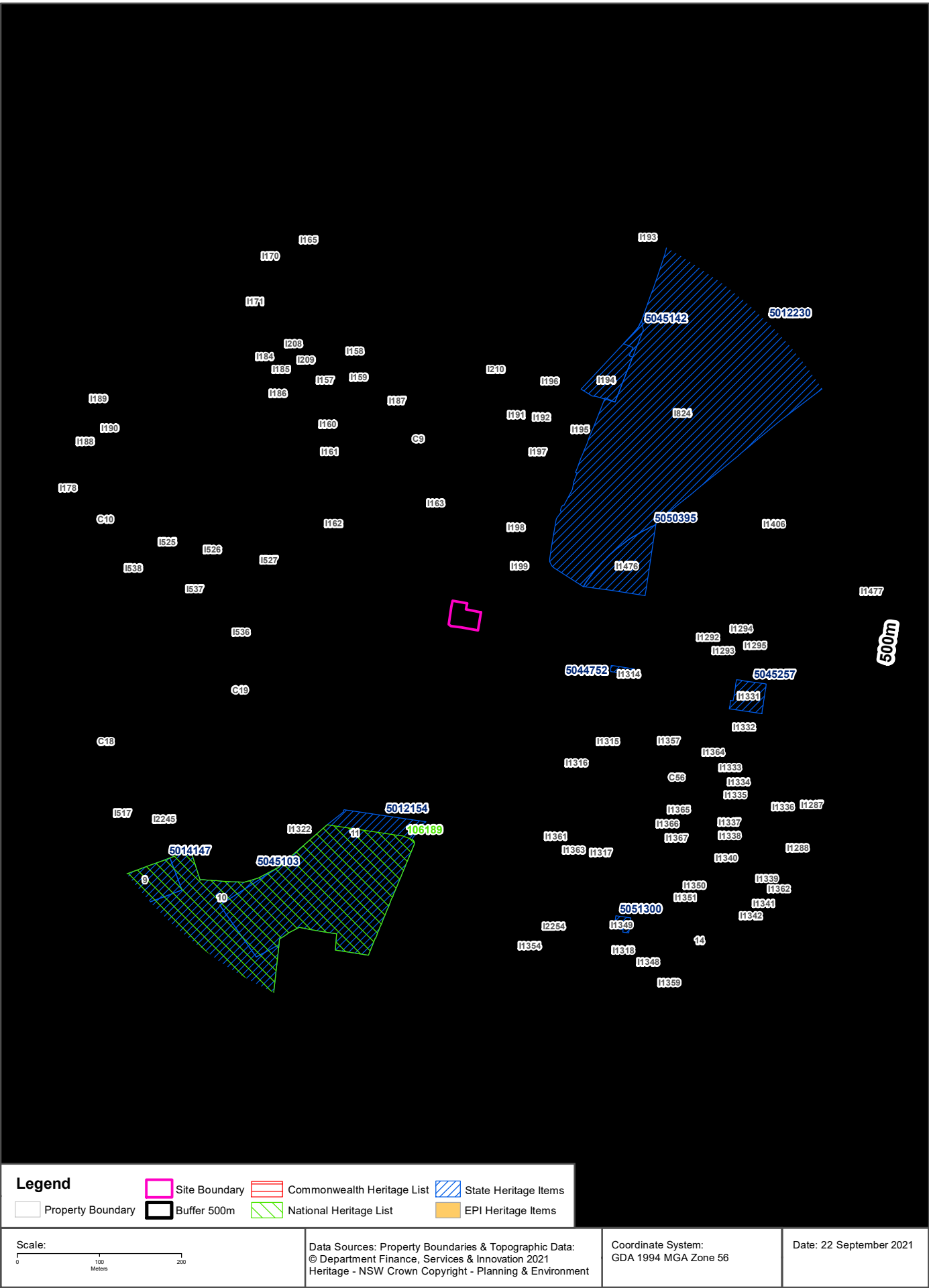
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		646m	North
D	Business Zone - Mixed Use		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	653m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		658m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		674m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		688m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		695m	North
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		720m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		723m	East
B2	Local Centre		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		726m	North West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		726m	South
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		746m	South
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		817m	West
SP2	Infrastructure		Sydney Local Environmental Plan 2012	12/12/2014	12/12/2014	14/08/2020	Amendment No 9	823m	South
H	Recreation Zone - Public Recreation		State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	State Environmental Planning Policy (Major Development) Amendment (State Significant Precincts) 2016	837m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		847m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		850m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		863m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		892m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		893m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		894m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		901m	North
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		905m	East
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		918m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		918m	North West
B4	Mixed Use		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		927m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		932m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		937m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		960m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		969m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		969m	North West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		971m	North West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		986m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	14/08/2020		997m	South

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Heritage Items

6-8 Woodburn Street, Redfern, NSW 2016



Heritage

6-8 Woodburn Street, Redfern, NSW 2016

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
106189	Greater Eveleigh Railway Precinct	Henderson Rd, Eveleigh NSW	1/12/033/0026	Historic	Nomination now ineligible for PPAL		263m	South West

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5012230	Sydney Terminal and Central Railway Stations Group	Great Southern and Western Railway; Illawarra Rail, Sydney	SYDNEY	02/04/1999	01255	2247	104m	North East
5050395	Cathedral of the Annunciation of Our Lady	242 Cleveland Street Redfern	SYDNEY	17/04/2012	01881	2523	129m	East
5044752	Redfern Aboriginal Children's Services	18 George Street, Redfern	SYDNEY	13/07/2015	01951	2670	168m	East
5012154	Redfern Railway Station group	Great Southern and Western Railway, Redfern	SYDNEY	02/04/1999	01234	2340	241m	South West
5045142	Mortuary Railway Station and site	Regent Street, Chippendale	SYDNEY	02/04/1999	00157	200	296m	North East
5045257	Fitzroy Terrace	6-18 Pitt Street Redfern	SYDNEY	02/04/1999	00083	277	320m	East
5045103	Eveleigh Railway Workshops	Great Southern and Western Railway, Redfern	SYDNEY	02/04/1999	01140	2347	362m	South West
5051300	Redfern Post Office	113 Redfern Street Redfern	SYDNEY	22/12/2000	01439	2140	387m	South East
5014147	Eveleigh Chief Mechanical Engineers Office	Great Southern and Western Railway, Redfern	SYDNEY	02/04/1999	01139	2341	444m	South West

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C9	Chippendale	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	37m	North West
I163	Flat building group 'Strickland Building'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	55m	North
I199	Former Mercantile Bank Chambers	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	65m	North East
C56	Redfern Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	81m	South East
I198	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	93m	North East
C19	Darlington	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	100m	West
I824	Central Railway Station group	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	103m	North East
I1476	Greek Orthodox Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	129m	East
I162	Terrace group 'Dangar Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	151m	North West
I1314	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	168m	East
I1315	Commercial building 'Star House'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	180m	South East
I197	Former Crown Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	192m	North East
I1316	Fence posts on Renwick Street	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	196m	South East
I1406	Prince Alfred Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	203m	East
I527	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	220m	West
I161	Shannon Hotel (87 -89 Abercrombie Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	224m	North West
I191	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	227m	North
I192	Item - General	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	229m	North
I1361	Wood Block paving beneath bitumen surface	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	238m	South East
I536	Terrace house 'The Settlement' (17 Edward Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	238m	West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I195	Co-Masonic Temple	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	240m	North East
I187	Sydney City Mission Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	244m	North
I160	Warehouse 'JC Goodwin & Co'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	253m	North West
I1357	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	261m	South East
11	Redfern Station Booking Office	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	270m	South West
I1292	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	273m	East
I210	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	275m	North
I1363	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	277m	South East
I159	Warehouse 'Macintosh Tyres & Co'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	278m	North West
I196	Terrace group (83-85 Regent Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	283m	North
I1293	Cottage group 'Tutulla' & 'Tivoli'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	286m	East
I194	Mortuary Railway Station	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	289m	North East
I526	Former service station 'Hahn Automotive Services'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	292m	West
I1364	Terrace group 'Tamworth Terraces'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	294m	South East
I1322	Terrace house 'Waratah'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	296m	South West
I537	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	296m	West
I1317	Redfern Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	297m	South East
I157	Corner shop & terrace group 'Centennial Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	301m	North West
I1365	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	311m	South East
I1294	Park Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	313m	East
I186	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	315m	North West
I158	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	318m	North
I1331	Terrace group 'Fitzroy Terrace'	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	320m	East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1332	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	322m	East
I1366	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	324m	South East
I1367	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	328m	South East
I209	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	329m	North West
I1295	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	330m	East
I185	Former hotel & terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	338m	North West
I1337	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	340m	South East
I1335	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	342m	South East
I1333	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	347m	South East
I1334	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	348m	South East
I525	Britannia Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	349m	West
I184	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	351m	North West
I208	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	353m	North West
C10	Darling Nursery Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	364m	West
I2254	Electricity Substation No. 112	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	29/01/2021	365m	South
I538	Industrial building	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	375m	West
I1354	Former Redfern Municipal Electric Light Station	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	376m	South
C18	Golden Grove	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	378m	West
I1338	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	378m	South East
I1349	Redfern Post Office	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	387m	South East
I1340	Former shop & residence 'Quirk's Store'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	395m	South East
I1351	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	398m	South East
I2245	Former McMurtrie, Kellermann & Co Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	29/01/2021	398m	South West
I1318	Redfern Telephone Exchange	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	398m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1348	Former St Vincent's Roman Catholic Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	404m	South East
I1350	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	405m	South East
I1336	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	409m	South East
10	Telecommunications Equipment Centre	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	415m	South West
I171	Former warehouse 'WA Davidson Clothing Manufacturers'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	424m	North West
I170	UTS Blackfriars Campus group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	428m	North West
I1287	Cottage 'Dascom E Cottage'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	434m	South East
I517	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	441m	South West
I165	St Benedict's Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	441m	North
I1477	Former Cleveland Street Public School	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	443m	East
14	Former Court House Building	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	445m	South East
I1339	Redfern Town Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	448m	South East
I1288	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	457m	South East
I190	Victoria Park Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	463m	North West
I1341	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	464m	South East
9	Chief Mechanical Engineer's Office Building	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	464m	South West
I1362	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	474m	South East
I1342	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	478m	South East
I1359	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	481m	South East
I178	Rose Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	486m	West
I188	Warehouse 'EG Bishops Pty Ltd'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	488m	North West
I189	Corner shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	494m	North West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I193	Former commercial building 'John Storey Memorial Dispensary'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	29/01/2021	498m	North East

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Natural Hazards

6-8 Woodburn Street, Redfern, NSW 2016

Bush Fire Prone Land

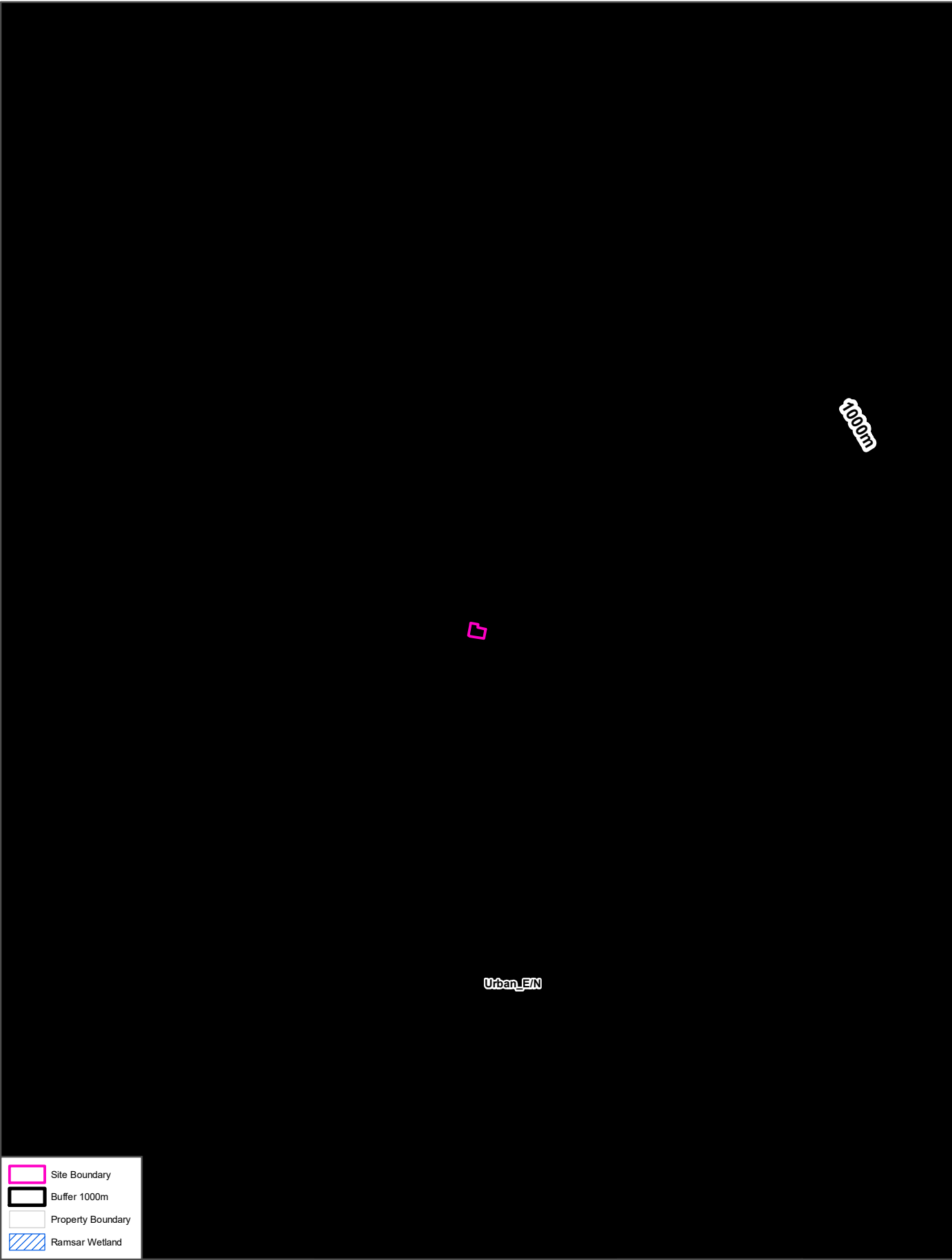
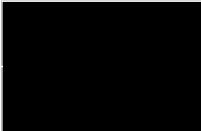
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

6-8 Woodburn Street, Redfern, NSW 2016



Site Boundary

Buffer 1000m

Property Boundary

Ramsar Wetland

Scale: 0100200400600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2021	Coordinate System: GDA 1994 MGA Zone 56	Date: 22 September 2021
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Ecological Constraints

6-8 Woodburn Street, Redfern, NSW 2016

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Dir
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	74m	South East

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage

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Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

Ecological Constraints

6-8 Woodburn Street, Redfern, NSW 2016

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints

6-8 Woodburn Street, Redfern, NSW 2016

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer					

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

6-8 Woodburn Street, Redfern, NSW 2016

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Crinia tinnula	Wallum Froglet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna carneipes	Flesh-footed Shearwater	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris alba	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris canutus	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris tenuirostris	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Calyptorhynchus lathami	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Charadrius leschenaultii	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Vulnerable	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Charadrius veredus	Oriental Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Epethianura albifrons	White-fronted Chat	Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Erythrotriorchis radiatus	Red Goshawk	Critically Endangered	Category 2	Vulnerable	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limicola falcinellus	Broad-billed Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Critically Endangered	Not Sensitive	Endangered	
Animalia	Aves	Menura alberti	Albert's Lyrebird	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neophema chrysogaster	Orange-bellied Parrot	Critically Endangered	Category 3	Critically Endangered	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Endangered	Category 3	Vulnerable	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pterodroma leucoptera leucoptera	Gould's Petrel	Vulnerable	Not Sensitive	Endangered	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stercorarius longicaudus	Long-tailed Jaeger	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Thalassarche chrysostoma	Grey-headed Albatross	Not Listed	Not Sensitive	Endangered	
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Dugong dugon	Dugong	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Megaptera novaeangliae	Humpback Whale	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Endangered Population	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale cinerea	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pseudomys gracilicaudatus	Eastern Chestnut Mouse	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Aspidites ramsayi	Woma	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Dermochelys coriacea	Leatherback Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Camarophyllopsis kearneyi		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe anomala var. ianthinomarginata		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe aurantipes		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe austropratensis		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe collucera		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe griseoramosa		Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Fungi	Flora	Hygrocybe lanecovens		Endangered	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe reesia		Vulnerable	Not Sensitive	Not Listed	
Fungi	Flora	Hygrocybe rubronivea		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia gordonii		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Acacia pubescens	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. Eastern Sydney	Sunshine wattle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Allocasuarina portuensis	Nielsen Park She-oak	Endangered	Category 3	Endangered	
Plantae	Flora	Amperea xiphoclada var. pedicellata		Presumed Extinct	Not Sensitive	Extinct	
Plantae	Flora	Asterolasia buxifolia		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Endangered	Category 2	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	Dichanthium setosum	Bluegrass	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Diuris arenaria	Sand Doubletail	Endangered	Category 2	Not Listed	
Plantae	Flora	Doryanthes palmeri	Giant Spear Lily	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Epacris purpurascens var. purpurascens		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus fracta	Broken Back Ironbark	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus pulverulenta	Silver-leaved Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Endangered	Category 2	Endangered	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Endangered	Category 3	Not Listed	
Plantae	Flora	Grevillea caleyi	Caley's Grevillea	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Hibbertia puberula		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Leptospermum deanei		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca biconvexa	Biconvex Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Prasophyllum fuscum	Slaty Leek Orchid	Critically Endangered	Category 2	Vulnerable	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Critically Endangered	Category 3	Critically Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetratheca glandulosa		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Triplarina imbricata	Creek Triplarina	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Vulnerable	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

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LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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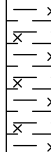
Appendix I – Boreholes Logs

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor BG Drilling
 Drill Rig Hand Portable Rig &
 Track-mounted Drilling Rig
 Inclination -90°

BOREHOLE: BH1

Sheet 1 OF 1
 Date Started 5/10/21
 Date Completed 5/10/21
 Logged DS
 Checked LB

Drilling				Sampling		Field Material Description																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NMLC	AD/T	GWNE	0	0.23	ES 0.30-0.40 m ES 0.90-1.00 m			-	CONCRETE: 230 mm thick.	-	-	-	CONCRETE HARDSTAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			CI	Silty CLAY: medium plasticity, pale grey/red brown, no odour.				M (<PL)	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				CH				Silty CLAY: high plasticity, pale grey/orange brown, no odour.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			-		SHALE: dark grey to red-brown, very thinly bedded, with sub-horizontal siltstone laminations and ironstaining.			BEDROCK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor BG Drilling
 Drill Rig Rig CE 180
 Inclination -90°

TEST: BH2M

Sheet 1 OF 1
 Date Started 5/10/21
 Date Completed 5/10/21
 Logged DS
 Checked LB

Drilling				Sampling		Field Material Description								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	PIEZOMETER DETAILS	
													ID BH2M	Static Water Level
													BH2M	
DT				0				-	CONCRETE: 190 mm thick.		-			
				0.19				-	BRICK: 150 mm thick.		-			
				0.35	ES 0.50-0.60 m			-	FILL: SAND; fine-coarse grained, dark, no odour.		-			
				1.00	ES 1.10-1.20 m			CL	Sandy CLAY: low plasticity, pale grey mottled orange brown, fine to medium grained sand, no odour.					
				2				CL	Silty CLAY: low plasticity, pale grey to red-brown, with fine to medium ironstone gravels, no odour.					
				2.40					From 3.5 m, less ironstone gravels.					
				3.50										
				4										
				6					From 6.0 m, with dark grey occasional bands of very low to low strength, distinctly weathered shale, no odour.					
				8										
				9.32				CI	Silty CLAY: low plasticity, dark grey, with occasional bands of very low strength, distinctly weathered shale, no odour.					
				9.86					From 9.86 m, colour change to grey.					
				10.05					SANDSTONE: fine to medium grained, grey, very thinly to thinly bedded, with pale orange-brown ironstaining and dark grey sub horizontal siltstone laminations.					
				10.38					From 10.38 m, no iron staining.					
				11.93					From 11.93 m, medium to thickly bedded.					
				13.52					Hole Terminated at 13.52 mBGL; Target Depth Reached.					
				14										

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

[illegible]

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor -
 Machine Shovel; manual excavation
 Bucket Size

TEST PIT: TP1

Sheet 1 OF 1
 Date 7/11/21
 Logged DS
 Checked LB

Excavation					Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
DT			0.0		ES 0.20-0.30 m				CONCRETE: 200 mm thick.	-	-		CONCRETE HARDSTAND
			0.20				CI	FILL: Silty CLAY; medium plasticity, pale grey mottled orange to brown/red brown, trace fine to medium, sub-angular to angular gravels and brick fragments, no odour.	M (<PL)	-	FILL		
HAND			0.5		ES 0.50-0.60 m								
			0.60						Hole Terminated at 0.60 mBGL; Target Depth Reached.				
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor -
 Machine Shovel; manual excavation
 Bucket Size

TEST PIT: TP2

Sheet 1 OF 1
 Date 7/11/21
 Logged DS
 Checked LB

Excavation				Sampling		Field Material Description							
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
HAND	DT	GWNE	0.0		ES 0.40-0.50 m			-	CONCRETE: 100 mm thick.		-	CONCRETE HARDSTAND	
			-	BRICK: 200 mm thick.				-					
			0.30					CI	Silty CLAY: medium plasticity, pale grey to red brown, no odour.	M (<PL)	-		
			0.50										
			0.5					Hole Terminated at 0.50 mBGL; Target Depth Reached.					
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor -
 Machine Shovel; manual excavation
 Bucket Size

TEST PIT: TP3

Sheet 1 OF 1
 Date 7/11/21
 Logged DS
 Checked LB

Excavation				Sampling			Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION		MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
HAND	DT	GWNE	0.0		ES 0.40-0.50 m			-	CONCRETE: 350 mm	-	-	CONCRETE HARDSTAND	
			0.35	CI				Silty CLAY: medium plasticity, pale grey to orange brown, no odour.	M (<PL)	-			
			0.50						Hole Terminated at 0.50 mBGL; Target Depth Reached.				
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Detailed Site Investigation
 Location 6-8 Woodburn Street, Redfern NSW
 Position Refer to Figure 2
 Job No. E25342.E02
 Client YPI2B Ownership Trust No 6

Contractor -
 Machine Shovel; manual excavation
 Bucket Size

TEST PIT: TP4

Sheet 1 OF 1
 Date 7/11/21
 Logged DS
 Checked LB

Excavation				Sampling		Field Material Description									
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION			MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
HAND	DT	-	GWNE	0.0	ES 0.20-0.30 m			-	TILE: 10 mm thick.			-	-	-	CONCRETE HARDSTAND
				-				CONCRETE: 140 mm thick.							
				-				FILL: Gravelly SAND; fine to coarse grained, brown to orange-brown, with clay, brick, plastic and tile fragments, fine to coarse grained, sub-angular to angular gravels, no odour.							
				0.30					Hole Terminated at 0.30 mBGL; Target Depth Reached.			D	-		FILL
				0.5											
				1.0											
				1.5											
				2.0											
				2.5											
				3.0											

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Appendix J – Field Data Sheets

WATER SAMPLING FIELD SHEET



Site Address: 6-8 Woodburn St, Redfern					Job Number: E25342				
Client:					Date: 13/10/21				
Field Staff: AS/TC					Sampling Location ID: B42M				
Well Location:					Round No:				
MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:									
SAMPLING POINT INFO									
Well Installation Date:					Stick up / down (m): -0.10 (+ above ground - below ground)				
Initial Well Depth (mBTC):					Screen Interval (mBTC):				
Previous Sampling Date:					Previous SWL (mBTC):				
PID READINGS									
PID Headspace (ppm):					PID Background (ppm):				
PID Breathing Space (ppm):									
PRE PURGE									
Total Well Depth (mBTC): 10.53					Well Head Condition:				
SWL (mBTC): 3.85					Water Column (m):				
PHASE SEPARATED HYDROCARBONS (PSH)									
Depth to PSH (mBTC):					PSH Visually Confirmed (Bailer):				
PSH Thickness (mm):									
Field Filtered									
Yes (0.45 µm) ☒					No ☐ (Request lab 0.45 µm filter the sample)				
PURGE AND SAMPLE									
Sampling Method ☒ Bladder ☐ Peristaltic ☐ Submersible ☐ Other:									
Depth of Pump Inlet (mBTC): 8m					Fill Timer: 10				
Pump Pressure Regulator (psi): 25					Discharge Timer: 5				
Weather Conditions: rain					Cycle: 6PM4				
Pump on time: 2:10					Pump off time: 2:28				
WATER QUALITY PARAMETERS									
Probe Make and Model: WQM 006					Bump Test Date and Time:				
Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)	
2:11	0.5	3.86	22.07	635	-1787	0.00	7.72	brown, high, no, no	
2:12	1.0	3.86	22.07	487	-1520	0.00	7.04		
2:13	1.5	3.86	22.08	433	-86.6	0.00	6.66		
2:14	2.0	3.86	22.08	421	-714	0.00	6.48		
2:15	2.5	3.86	22.08	415	-669	0.00	6.46		
Stabilisation range: 3 consecutive readings		±0.2°C	±3%	±20mV	±10%	±0.2			
OTHER COMMENTS/OBSERVATIONS:									
QD/QT taken									
SIGNATURE:									

WATER SAMPLING FIELD SHEET



Site Address:					Job Number:				
Client:					Date:				
Field Staff:					Sampling Location ID <i>BH3M</i>				
Well Location:					Round No:				
MEDIUM ☐ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:									
SAMPLING POINT INFO									
Well Installation Date:					Stick up / down (m): (+ above ground - below ground)				
Initial Well Depth (mBTOC):					Screen Interval (mBTOC):				
Previous Sampling Date:					Previous SWL (mBTOC):				
PID READINGS									
PID Headspace (ppm):					PID Background (ppm):				
PID Breathing Space (ppm):									
PRE PURGE									
Total Well Depth (mBTOC):					Well Head Condition:				
SWL (mBTOC):					Water Column (m):				
PHASE SEPARATED HYDROCARBONS (PSH)									
Depth to PSH (mBTOC):					PSH Visually Confirmed (Bailer):				
PSH Thickness (mm):									
Field Filtered									
Yes (0.45 µm) ☐					No ☐ (Request lab 0.45 µm filter the sample)				
PURGE AND SAMPLE									
Sampling Method ☐ Bladder ☐ Peristaltic ☐ Submersible ☐ Other:									
Depth of Pump Inlet (mBTOC):					Fill Timer:				
Pump Pressure Regulator (psi):					Discharge Timer:				
Weather Conditions:					Cycle:				
Pump on time:					Pump off time:				
WATER QUALITY PARAMETERS									
Probe Make and Model:					Bump Test Date and Time:				
Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)	
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2		
OTHER COMMENTS/OBSERVATIONS:									
<i>Well covered by car, see photos</i>									
SIGNATURE: <i>AS. [Signature]</i>									

Appendix K – Chain of Custody and Sample Receipt Forms

Sheet <u>1</u> of <u>2</u>					Sample Matrix				Analysis																Comments	
Site: <u>6-8 Woodburn St, Redfern NSW</u>			Project No: <u>E25342</u>		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A / TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM ^A / TRH/BTEX/PAHs	HM ^A / TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	Excavated Natural Material (ENM) Suite	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	TCLP HM ^B / PAH	HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc
Laboratory:	SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499		Sample ID	Laboratory ID																						Container Type
BH1M-0.9-1.0	1	5/10/21	2LB, J		✓				✓	✓																Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
BH1M-0.3-0.4	2	" "	" "						✓																	
BH2M-0.5-0.6	3	6/10/21	" "						✓																	
↓ - 1-1.2		" "	" "																							
BH3M-0.4-0.5	4	7/10/21	" "						✓																	
TP1-0.3-0.4	5	5/10/21	" "						✓																	
↓ - 0.5-0.6		" "	" "																							
TP2-0.3-0.4	6	" "	" "						✓																	
TP3 -0.3-0.4	7	6/10	" "						✓																	
TP4 -0.2-0.3	8	7/10/21	" "						✓																	
QD1	9	5-7/10/21	J							✓																
QR1	10	5-7/10/21	S, P, VC		✓					✓																

Container Type:
J = solvent washed, acid rinsed, Teflon sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): Print: <u>DS CI- EW</u> Signature: <u>[Signature]</u> Date: <u>8/10/21</u>	Received by (SGS): Print: <u>George Zhi</u> Signature: <u>[Signature]</u> Date: <u>8/10/21 @ 6pm</u>
--	---

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

Report with EI Waste Classification Table ☐

Sampler's Comments:

SGS EHS Sydney COC
SE224433





Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC June 2021 FORM v.5 - SGS

Sheet <u>2</u> of <u>2</u>					Sample Matrix				Analysis																Comments	
Site: <u>6-8 Woodburn St, Redfern</u>			Project No: <u>E25742</u>		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM ^A /TRH/BTEX/PAHs	HM ^A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	Excavated Natural Material (ENM) Suite	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	TCLP HM ^B / PAH	HM^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM^B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory:		SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																								
Sample ID	Laboratory ID	Container Type	Sampling																							
			Date	Time																						
<u>QVT</u> <u>Trip Bank</u> <u>QTI #</u>	<u>11</u>	<u>5-7/10/21</u>	<u>VC</u>																							Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
																										LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____
Container Type: J = solvent washed, acid rinsed, Teflon sealed glass jar S = solvent washed, acid rinsed glass bottle P = natural HDPE plastic bottle VC = glass vial, Teflon Septum ZLB = Zip-Lock Bag					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.											Report with EI Waste Classification Table ☐										
 Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au COC June 2021 FORM v.5 - SGS					Sampler's Name (EI): Print <u>OS c1- FW</u> Signature <u>[Signature]</u> Date <u>8/10/21</u>					Received by (SGS): Print <u>George Zhi</u> Signature <u>[Signature]</u> Date <u>8/10/21 @ 6pm</u>					Sampler's Comments: <u># Send QTI to Fwirolab please</u>											
					IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au																					

Yin, Emily (Sydney)

From: Emmanuel Woelders - EIAustralia <emmanuel.woelders@eiaustralia.com.au>
Sent: Monday, 11 October 2021 9:36 AM
To: Yin, Emily (Sydney)
Subject: [EXTERNAL] RE: E25342 -

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi Emily,

Please test for Asbestos ID.

DS is David Saw.

Regards,

Emmanuel Woelders

BEnvSc, MEnvSc – Environmental Science

Senior Environmental Scientist

Project Manager

T 02 9516 0722 M 0475 554 312

E emmanuel.woelders@eiaustralia.com.au

Suite 6.01, 55 Miller Street

Pymont, NSW 2009

www.eiaustralia.com.au



Environmental | Geotechnical | Structural | Civil | Hazardous Materials

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From: Yin, Emily (Sydney) [mailto:Emily.Yin@sgs.com]

Sent: Friday, 8 October 2021 6:59 PM

To: Emmanuel Woelders - EIAustralia

Subject: E25342 -

Dear Emmanuel,

Extra bagged sample BH3M_0.3-0.4 received.

Do you want it analysed?

Also is DS David Saw?

Please advise as soon as possible.

Thank You.

Regards,



SAMPLE RECEIPT ADVICE

SE224433

CLIENT DETAILS

Contact Emmanuel Woelders
Client EIAUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email emmanuel.woelders@eiaustralia.com.au

Project **E25342 6-8 Woodburn St, Redfern NSW**
Order Number **E25342**
Samples 12

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Fri 8/10/2021
Report Due Fri 15/10/2021
SGS Reference **SE224433**

SUBMISSION DETAILS

This is to confirm that 12 samples were received on Friday 8/10/2021. Results are expected to be ready by COB Friday 15/10/2021. Please quote SGS reference SE224433 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	10 Soil, 2 Water
Date documentation received	8/10/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	15°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St, Redfern NSW**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1M_0.9-1.0	-	-	26	-	7	10	11	7
002	BH1M_0.3-0.4	29	14	26	11	7	10	11	7
003	BH2M_0.5-0.6	29	14	26	11	7	10	11	7
004	BH3M_0.4-0.5	29	14	26	11	7	10	11	7
005	TP1_0.3-0.4	29	14	26	11	7	10	11	7
006	TP2_0.3-0.4	29	14	26	11	7	10	11	7
007	TP3_0.3-0.4	29	14	26	11	7	10	11	7
008	TP4_0.2-0.3	29	14	26	11	7	10	11	7
009	QD1	-	-	-	-	7	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
 The numbers shown in the table indicate the number of results requested in each package.
 Please indicate as soon as possible should your request differ from these details .
 Testing as per this table shall commence immediately unless the client intervenes with a correction .

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St, Redfern NSW**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	VOCs in Water
001	BH1M_0.9-1.0	-	1	1	-
002	BH1M_0.3-0.4	2	1	1	-
003	BH2M_0.5-0.6	2	1	1	-
004	BH3M_0.4-0.5	2	1	1	-
005	TP1_0.3-0.4	2	1	1	-
006	TP2_0.3-0.4	2	1	1	-
007	TP3_0.3-0.4	2	1	1	-
008	TP4_0.2-0.3	2	1	1	-
009	QD1	-	1	1	-
010	QR1	-	-	-	11
011	Trip Blank	-	-	-	11
012	BH3M_0.3-0.4	2	-	-	-

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .



SAMPLE RECEIPT ADVICE

SE224433

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St, Redfern NSW**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	Volatile Petroleum Hydrocarbons in Water
010	QR1	1	7	9	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Emmanuel Woelders

Sample Login Details

Your reference	E25342, 6-8 Woodburn St Redfern
Envirolab Reference	280093
Date Sample Received	11/10/2021
Date Instructions Received	11/10/2021
Date Results Expected to be Reported	18/10/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	17
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metals in soil
QT1	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.



SAMPLE RECEIPT ADVICE

SE224584

CLIENT DETAILS

Contact **Andrew Schmidt**
Client **EIA AUSTRALIA**
Address **SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009**

Telephone **61 2 95160722**
Facsimile **(Not specified)**
Email **andrew.schmidt@eiaustralia.com.au**

Project **E25342 6-8 Woodburn St. Redfern**
Order Number **E25342**
Samples **5**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

Samples Received **Wed 13/10/2021**
Report Due **Wed 20/10/2021**
SGS Reference **SE224584**

SUBMISSION DETAILS

This is to confirm that 5 samples were received on Wednesday 13/10/2021. Results are expected to be ready by COB Wednesday 20/10/2021. Please quote SGS reference SE224584 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	5 Water
Date documentation received	13/10/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

1 sample has been placed on hold as no tests have been assigned for it. This sample will not be processed.

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SAMPLE RECEIPT ADVICE

SE224584

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St. Redfern**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Total Phenolics in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH2M	1	22	1	7	9	78	7
002	GW-QD1	1	-	-	7	9	11	7
003	GW-QR1	1	-	-	7	9	11	7
004	GW-QTB1	-	-	-	-	-	11	-
005	GW-QTS1	-	-	-	-	-	11	-

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

Yin, Emily (Sydney)

From: AU.Environmental.Sydney (Sydney)
Sent: Wednesday, 17 November 2021 5:34 PM
To: Luiza Barbosa - Elaustralia
Cc: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: [EXTERNAL] RE: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

Hi Luiza,

Will report TPH silica results for sample BH2M tomorrow. Thanks.

Kind Regards,

Huong Crawford
Industries & Environment
Production Manager

SGS Australia Pty Ltd
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Phone: +61 (0)2 8594 0403
Fax: + 61 (0)2 8594 0499
E-mail: Huong.Crawford@sgs.com
Web: www.au.sgs.com

View Your Results Online: engage.sgs.com

SGS EHS Alexandria Laboratory



SE224584A COC
Received: 17 – Nov – 2021

From: Luiza Barbosa - Elaustralia <luiza.barbosa@eiaustralia.com.au>
Sent: Wednesday, 17 November 2021 5:30 PM
To: AU.Environmental.Sydney (Sydney) <AU.Environmental.Sydney@sgs.com>; AU.SampleReceipt.Sydney (Sydney) <AU.SampleReceipt.Sydney@sgs.com>
Subject: RE: [EXTERNAL] RE: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS,

Please run the test at groundwater sample BH2M on a 24h TAT.

Kin dregards

Yin, Emily (Sydney)

From: Luiza Barbosa - Elaustralia <luiza.barbosa@eiaustralia.com.au>
Sent: Wednesday, 17 November 2021 4:28 PM
To: AU.SampleReceipt.Sydney (Sydney); AU.Environmental.Sydney (Sydney)
Subject: [EXTERNAL] RE: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS,

In view of dates of the sample, would still be possible to run a silica gel clean up in this sample to confirm concentration of TRH F3?

Kind regards

Luiza Barbosa
Civil/Environmental Engineer
T (02) 9516 0722 M 0406 522 397
E luiza.barbosa@eiaustralia.com.au
Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009
www.eiaustralia.com.au



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From: AU.Samplereceipt.Sydney@SGS.com [mailto:AU.Samplereceipt.Sydney@SGS.com]
Sent: Wednesday, 20 October 2021 5:06 PM
To: Andrew Schmidt - EIAustralia; Emmanuel Woelders - EIAustralia; Laboratory Results - EIAustralia
Subject: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

Dear Valued Customer,

Please find attached the report for SGS job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342.

How are we doing? Please take a quick online [Survey](#)



SAMPLE RECEIPT ADVICE

SE224584A

CLIENT DETAILS

Contact **Luiza Barbosa**
Client **EI AUSTRALIA**
Address **SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009**

Telephone **61 2 95160722**
Facsimile **(Not specified)**
Email **Luiza.Barbosa@eiaustralia.com.au**

Project **E25342 6-8 Woodburn St. Redfern-Add**
Order Number **E25342**
Samples **5**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

Samples Received **Wed 17/11/2021**
Report Due **Thu 18/11/2021**
SGS Reference **SE224584A**

SUBMISSION DETAILS

This is to confirm that 5 samples were received on Wednesday 17/11/2021. Results are expected to be ready by COB Thursday 18/11/2021. Please quote SGS reference SE224584A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	1 Water
Date documentation received	17/11/2021@5:34pm	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

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SAMPLE RECEIPT ADVICE

SE224584A

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St. Redfern-Add**

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable)
001	BH2M	9

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

Please book this in

Regards,

Paul Harley

Industries and Environment

Client Manager

Phone: +61 (0)2 8594 0400

Direct: +61 (0)2 8594 0449

Mobile: +61 (0)4 0797 2867

(Please note my new working hours of Mon-Fri 7:00am-3:00pm)

From: Luiza Barbosa - Elaustrialia <luiza.barbosa@eiaustralia.com.au>

Sent: Thursday, 18 November 2021 10:36 AM

To: AU.SampleReceipt.Sydney (Sydney) <AU.SampleReceipt.Sydney@sgs.com>;

AU.Environmental.Sydney (Sydney) <AU.Environmental.Sydney@sgs.com>

Subject: [EXTERNAL] RE: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

***** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. *****

Hi SGS,

Can you please test GW-RB1 for Copper on a 24h TAT?

Kind regards

Luiza Barbosa

Civil/Environmental Engineer

T (02) 9516 0722 **M** 0406 522 397

E luiza.barbosa@eiaustralia.com.au

Suite 6.01, 55 Miller Street

Pymont, NSW 2009

www.eiaustralia.com.au



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Please consider the environment before printing this email.

From: AU.Samplerreceipt.Sydney@SGS.com [mailto:AU.Samplerreceipt.Sydney@SGS.com]

Sent: Wednesday, 20 October 2021 5:06 PM

To: Andrew Schmidt - EIAustralia; Emmanuel Woelders - EIAustralia; Laboratory Results - EIAustralia

Subject: Report Job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342

Dear Valued Customer,

Please find attached the report for SGS job SE224584, your reference E25342 6-8 Woodburn St. Redfern, order number E25342.

How are we doing? Please take a quick online [Survey](#)

If you have any questions or concerns, please don't hesitate to contact your SGS Client Services representative.

Best Regards,
SGS Alexandria Customer Service Team
SGS Australia Pty Ltd
Phone: +61 (0)2 8594 0400

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SAMPLE RECEIPT ADVICE

SE224584B

CLIENT DETAILS

Contact **Andrew Schmidt**
Client **EI AUSTRALIA**
Address **SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009**

Telephone **61 2 95160722**
Facsimile **(Not specified)**
Email **andrew.schmidt@eiaustralia.com.au**

Project **E25342 6-8 Woodburn St. Redfern**
Order Number **E25342**
Samples **6**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

Samples Received **Thu 18/11/2021**
Report Due **Fri 19/11/2021**
SGS Reference **SE224584B**

SUBMISSION DETAILS

This is to confirm that 6 samples were received on Thursday 18/11/2021. Results are expected to be ready by COB Friday 19/11/2021. Please quote SGS reference SE224584B when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	1 Water
Date documentation received	18/11/2021@10:36am	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

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SAMPLE RECEIPT ADVICE

SE224584B

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25342 6-8 Woodburn St. Redfern**

SUMMARY OF ANALYSIS

No.	Sample ID	Trace Metals (Dissolved) in Water by ICPMS
006	GW-QRB1	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

Sheet <u>1</u> of <u>1</u>					Sample Matrix				Analysis														Comments			
Site: <u>6-8 Woodburn St, Redfern</u>				Project No: <u>E25342</u>	SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A / TRH/BTEX/PAHs OC/POP/PCB/Asbestos	HM ^A / TRH/BTEX/PAHs	HM ^A / TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	Excavated Natural Material (ENM) Suite	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	TCLP HM ^B / PAH	HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory: Envirolab Services 12 Ashley Street, CHATSWOOD NSW 2067 P: 02 9910 6200		Sample ID	Laboratory ID	Container Type																						
					Date	Time																				
		<u>AW-QT1</u>	<u>(1)</u>	<u>SP, 2xK</u>	<u>13/10/21</u>	<u>pm</u>	<u>X</u>	<u>X</u>			<u>X</u>															Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH
Container Type: J = solvent washed, acid rinsed, Teflon sealed-glass jar S = solvent washed, acid rinsed glass bottle P = natural HDPE plastic bottle VC = glass vial, Teflon Septum ZLB = Zip-Lock Bag					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.										Report with EI Waste Classification Table ☐											
 Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au COC June 2021 FORM v.5 - Envirolab					Sampler's Name (EI): Print <u>Andrew Schmitt</u> Signature <u>[Signature]</u> Date <u>13/10/21</u>					Received by (Envirolab): Print <u>TJ HAN</u> Signature <u>[Signature]</u> Date <u>14/10/21</u>					Sampler's Comments: <u>Please cc: Emmanuel. Woelbers</u> <u>@eiaustralia.com.au</u>											
					IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au																					

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200
 Job No: 280382
 Date Received: 13/10/2021
 Time Received: 1500
 Received By: TJ HAN
 Temp: Cool/Ambient
 Copling: Icepack
 Security: Intact/Broken/None

LABORATORY TURNAROUND
☒ Standard
☐ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Emmanuel Woelders

Sample Login Details

Your reference	E25342, Redfern
Envirolab Reference	280382
Date Sample Received	14/10/2021
Date Instructions Received	14/10/2021
Date Results Expected to be Reported	21/10/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved
GW-QT1	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix L – Laboratory Analytical Reports

CLIENT DETAILS

Contact Emmanuel Woelders
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 61 2 95160722
 Facsimile (Not specified)
 Email emmanuel.woelders@eiaustralia.com.au

Project **E25342 6-8 Woodburn St, Redfern NSW**
 Order Number **E25342**
 Samples 12

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
 Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

SGS Reference **SE224433 R0**
 Date Received 8/10/2021
 Date Reported 15/10/2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES



Akheeque BENIAEEN
 Chemist



Bennet LO
 Senior Chemist



Dong LIANG
 Metals/Inorganics Team Leader



Huong CRAWFORD
 Production Manager



Kamrul AHSAN
 Senior Chemist



Ly Kim HA
 Organic Section Head

VOC's in Soil [AN433] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.001	5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.006	6/10/2021 SE224433.007	7/10/2021 SE224433.008	5/10/2021 SE224433.009
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.001	5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.006	6/10/2021 SE224433.007	7/10/2021 SE224433.008	5/10/2021 SE224433.009
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.001	5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.006	6/10/2021 SE224433.007	7/10/2021 SE224433.008	5/10/2021 SE224433.009
TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.001	5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	0.6
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	1.0
Pyrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	0.9
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	0.4
Chrysene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	0.4
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	0.4
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	0.4
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	0.5
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	0.5
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	4.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	4.8

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3
			SOIL	SOIL	SOIL
			5/10/2021 SE224433.006	6/10/2021 SE224433.007	7/10/2021 SE224433.008
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4	TP2_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005	5/10/2021 SE224433.006
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	-	-	-	-	-

OC Pesticides in Soil [AN420] Tested: 11/10/2021 (continued)

PARAMETER	UOM	LOR	TP3_0.3-0.4	TP4_0.2-0.3
			SOIL - 6/10/2021 SE224433.007	SOIL - 7/10/2021 SE224433.008
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	0.2
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	0.4
Endrin	mg/kg	0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	-	-

OP Pesticides in Soil [AN420] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4	TP2_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005	5/10/2021 SE224433.006
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP3_0.3-0.4	TP4_0.2-0.3
			SOIL	SOIL
			6/10/2021 SE224433.007	7/10/2021 SE224433.008
Dichlorvos	mg/kg	0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4	TP2_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005	5/10/2021 SE224433.006
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP3_0.3-0.4	TP4_0.2-0.3
			SOIL	SOIL
			6/10/2021 SE224433.007	7/10/2021 SE224433.008
Arochlor 1016	mg/kg	0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 13/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.001	5/10/2021 SE224433.002	6/10/2021 SE224433.003	6/10/2021 SE224433.004	5/10/2021 SE224433.005
Arsenic, As	mg/kg	1	19	5	2	5	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	10	4.6	6.8	8.3
Copper, Cu	mg/kg	0.5	13	12	19	13	17
Lead, Pb	mg/kg	1	12	15	85	13	150
Nickel, Ni	mg/kg	0.5	<0.5	1.4	1.5	<0.5	1.4
Zinc, Zn	mg/kg	2	5.4	7.5	120	4.3	84

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			5/10/2021 SE224433.006	6/10/2021 SE224433.007	7/10/2021 SE224433.008	5/10/2021 SE224433.009
Arsenic, As	mg/kg	1	6	1	1	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	4.6	4.9	3.1	6.5
Copper, Cu	mg/kg	0.5	12	0.9	28	8.2
Lead, Pb	mg/kg	1	18	6	16	8
Nickel, Ni	mg/kg	0.5	<0.5	<0.5	1.6	1.6
Zinc, Zn	mg/kg	2	4.8	2.2	32	2.6

Mercury in Soil [AN312] Tested: 13/10/2021

			BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			5/10/2021	5/10/2021	6/10/2021	6/10/2021	5/10/2021
PARAMETER	UOM	LOR	SE224433.001	SE224433.002	SE224433.003	SE224433.004	SE224433.005
Mercury	mg/kg	0.05	<0.05	<0.05	0.20	<0.05	0.21

			TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			-	-	-	-
			5/10/2021	6/10/2021	7/10/2021	5/10/2021
PARAMETER	UOM	LOR	SE224433.006	SE224433.007	SE224433.008	SE224433.009
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 11/10/2021

PARAMETER	UOM	LOR	BH1M_0.9-1.0	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			5/10/2021	5/10/2021	6/10/2021	6/10/2021	5/10/2021
			SE224433.001	SE224433.002	SE224433.003	SE224433.004	SE224433.005
% Moisture	%w/w	1	23.3	21.3	11.6	18.6	21.2

PARAMETER	UOM	LOR	TP2_0.3-0.4	TP3_0.3-0.4	TP4_0.2-0.3	QD1
			SOIL	SOIL	SOIL	SOIL
			-	-	-	-
			5/10/2021	6/10/2021	7/10/2021	5/10/2021
			SE224433.006	SE224433.007	SE224433.008	SE224433.009
% Moisture	%w/w	1	28.9	14.8	15.1	17.9

Fibre Identification in soil [AN602] Tested: 14/10/2021

PARAMETER	UOM	LOR	BH1M_0.3-0.4	BH2M_0.5-0.6	BH3M_0.4-0.5	TP1_0.3-0.4	TP2_0.3-0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			5/10/2021	6/10/2021	6/10/2021	5/10/2021	5/10/2021
			SE224433.002	SE224433.003	SE224433.004	SE224433.005	SE224433.006
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP3_0.3-0.4	TP4_0.2-0.3	BH3M_0.3-0.4
			SOIL	SOIL	SOIL
			-	-	-
			6/10/2021	7/10/2021	7/10/2021
			SE224433.007	SE224433.008	SE224433.012
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE224433 R0

VOCs in Water [AN433] Tested: 12/10/2021

			QR1	Trip Blank
			WATER	WATER
			-	-
			5/10/2021	5/10/2021
			SE224433.010	SE224433.011
PARAMETER	UOM	LOR		
Benzene	µg/L	0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3
Naphthalene	µg/L	0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE224433 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 12/10/2021

			QR1
			WATER
			-
			5/10/2021
PARAMETER	UOM	LOR	SE224433.010
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 12/10/2021

			QR1
			WATER
			-
			5/10/2021
			SE224433.010
PARAMETER	UOM	LOR	
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320



ANALYTICAL RESULTS

SE224433 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 8/10/2021

			QR1
			WATER
			-
			5/10/2021
PARAMETER	UOM	LOR	SE224433.010
Arsenic, As	µg/L	1	<1
Cadmium, Cd	µg/L	0.1	<0.1
Chromium, Cr	µg/L	1	<1
Copper, Cu	µg/L	1	<1
Lead, Pb	µg/L	1	<1
Nickel, Ni	µg/L	1	<1
Zinc, Zn	µg/L	5	<5



ANALYTICAL RESULTS

SE224433 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 11/10/2021

			QR1
			WATER
			-
			5/10/2021
PARAMETER	UOM	LOR	SE224433.010
Mercury	mg/L	0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602

The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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CLIENT DETAILS

Contact Emmanuel Woelders
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 61 2 95160722
 Facsimile (Not specified)
 Email emmanuel.woelders@eiaustralia.com.au

Project **E25342 6-8 Woodburn St, Redfern NSW**
 Order Number **E25342**
 Samples 8

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
 Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

SGS Reference **SE224433 R0**
 Date Received 08 Oct 2021
 Date Reported 15 Oct 2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES



Akheeque BENIAMEEN
Chemist



Bennet LO
Senior Chemist



Huong CRAWFORD
Production Manager



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE224433.002	BH1M_0.3-0.4	Soil	121g Clay	05 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.003	BH2M_0.5-0.6	Soil	81g Clay,Sand	06 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.004	BH3M_0.4-0.5	Soil	158g Clay	06 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.005	TP1_0.3-0.4	Soil	193g Clay,Rocks	05 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.006	TP2_0.3-0.4	Soil	208g Clay	05 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.007	TP3_0.3-0.4	Soil	110g Clay,Sand	06 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01
SE224433.008	TP4_0.2-0.3	Soil	154g Sand,Rocks,Ce ment Mixture,Plastic, Ceramic Fragment	07 Oct 2021	No Asbestos Found at RL of 0.1g/kg Synthetic Mineral Fibres Detected Organic Fibres Detected	<0.01
SE224433.012	BH3M_0.3-0.4	Soil	192g Clay,Rocks	07 Oct 2021	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres); (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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CERTIFICATE OF ANALYSIS 280093

Client Details

Client	El Australia
Attention	Emmanuel Woelders
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E25342, 6-8 Woodburn St Redfern</u>
Number of Samples	1 soil
Date samples received	11/10/2021
Date completed instructions received	11/10/2021

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.

Report Details

Date results requested by	18/10/2021
Date of Issue	18/10/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Giovanni Agosti, Group Technical Manager
Jeremy Faircloth, Operations Manager, Sydney
Josh Williams, LC Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		280093-1
Your Reference	UNITS	QT1
Date Sampled		05/10/2021
Type of sample		soil
Date extracted	-	13/10/2021
Date analysed	-	14/10/2021
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C 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
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<3
Surrogate aaa-Trifluorotoluene	%	102

svTRH (C10-C40) in Soil		
Our Reference		280093-1
Your Reference	UNITS	QT1
Date Sampled		05/10/2021
Type of sample		soil
Date extracted	-	13/10/2021
Date analysed	-	14/10/2021
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C 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	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	93

Acid Extractable metals in soil		
Our Reference		280093-1
Your Reference	UNITS	QT1
Date Sampled		05/10/2021
Type of sample		soil
Date prepared	-	13/10/2021
Date analysed	-	14/10/2021
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	8
Copper	mg/kg	10
Lead	mg/kg	12
Mercury	mg/kg	<0.1
Nickel	mg/kg	<1
Zinc	mg/kg	2

Moisture		
Our Reference	UNITS	280093-1
Your Reference		QT1
Date Sampled		05/10/2021
Type of sample		soil
Date prepared	-	13/10/2021
Date analysed	-	14/10/2021
Moisture	%	17

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	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-020	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-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	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-023	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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			13/10/2021	[NT]	[NT]	[NT]	[NT]	13/10/2021	[NT]
Date analysed	-			14/10/2021	[NT]	[NT]	[NT]	[NT]	14/10/2021	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	78	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	78	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	84	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	78	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	78	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	76	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	85	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			13/10/2021	[NT]	[NT]	[NT]	[NT]	13/10/2021	[NT]
Date analysed	-			14/10/2021	[NT]	[NT]	[NT]	[NT]	14/10/2021	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	129	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	129	[NT]
Surrogate o-Terphenyl	%		Org-020	96	[NT]	[NT]	[NT]	[NT]	124	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			13/10/2021	[NT]	[NT]	[NT]	[NT]	13/10/2021	[NT]
Date analysed	-			14/10/2021	[NT]	[NT]	[NT]	[NT]	14/10/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	100	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

CLIENT DETAILS

Contact Andrew Schmidt
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 61 2 95160722
 Facsimile (Not specified)
 Email andrew.schmidt@eiaustralia.com.au

Project **E25342 6-8 Woodburn St. Redfern**
 Order Number **E25342**
 Samples 5

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
 Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

SGS Reference **SE224584 R0**
 Date Received 13/10/2021
 Date Reported 20/10/2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



Dong LIANG
 Metals/Inorganics Team Leader



Kamrul AHSAN
 Senior Chemist



Ly Kim HA
 Organic Section Head



Shane MCDERMOTT
 Inorganic/Metals Chemist



Teresa NGUYEN
 Organic Chemist

VOCs in Water [AN433] Tested: 15/10/2021

PARAMETER	UOM	LOR	BH2M	GW-QD1	GW-QR1	GW-QTB1	GW-QTS1
			WATER - 13/10/2021 SE224584.001	WATER - 13/10/2021 SE224584.002	WATER - 13/10/2021 SE224584.003	WATER - 13/10/2021 SE224584.004	WATER - 13/10/2021 SE224584.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[101%]
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[101%]
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[99%]
m/p-xylene	µg/L	1	<1	<1	<1	<1	[101%]
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[100%]
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	-
Total BTEX	µg/L	3	<3	<3	<3	<3	-
Naphthalene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	[98%]
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	-	-	-	-
Chloromethane	µg/L	5	<5	-	-	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	-	-	-	-
Bromomethane	µg/L	10	<10	-	-	-	-
Chloroethane	µg/L	5	<5	-	-	-	-
Trichlorofluoromethane	µg/L	1	<1	-	-	-	-
Acetone (2-propanone)	µg/L	10	<10	-	-	-	-
Iodomethane	µg/L	5	<5	-	-	-	-
1,1-dichloroethene	µg/L	0.5	<0.5	-	-	-	-
Acrylonitrile	µg/L	0.5	<0.5	-	-	-	-
Dichloromethane (Methylene chloride)	µg/L	5	<5	-	-	-	-
Allyl chloride	µg/L	2	<2	-	-	-	-
Carbon disulfide	µg/L	2	<2	-	-	-	-
trans-1,2-dichloroethene	µg/L	0.5	<0.5	-	-	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	2	<2	-	-	-	-
1,1-dichloroethane	µg/L	0.5	<0.5	-	-	-	-
Vinyl acetate	µg/L	10	<10	-	-	-	-
MEK (2-butanone)	µg/L	10	<10	-	-	-	-
cis-1,2-dichloroethene	µg/L	0.5	<0.5	-	-	-	-
Bromochloromethane	µg/L	0.5	<0.5	-	-	-	-
Chloroform (THM)	µg/L	0.5	<0.5	-	-	-	-
2,2-dichloropropane	µg/L	0.5	<0.5	-	-	-	-
1,2-dichloroethane	µg/L	0.5	<0.5	-	-	-	-
1,1,1-trichloroethane	µg/L	0.5	<0.5	-	-	-	-
1,1-dichloropropene	µg/L	0.5	<0.5	-	-	-	-
Carbon tetrachloride	µg/L	0.5	<0.5	-	-	-	-
Dibromomethane	µg/L	0.5	<0.5	-	-	-	-
1,2-dichloropropane	µg/L	0.5	<0.5	-	-	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	-	-	-	-
2-nitropropane	µg/L	100	<100	-	-	-	-
Bromodichloromethane (THM)	µg/L	0.5	<0.5	-	-	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	<5	-	-	-	-
cis-1,3-dichloropropene	µg/L	0.5	<0.5	-	-	-	-
trans-1,3-dichloropropene	µg/L	0.5	<0.5	-	-	-	-
1,1,2-trichloroethane	µg/L	0.5	<0.5	-	-	-	-
1,3-dichloropropane	µg/L	0.5	<0.5	-	-	-	-
Dibromochloromethane (THM)	µg/L	0.5	<0.5	-	-	-	-
2-hexanone (MBK)	µg/L	5	<5	-	-	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	-	-	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	-	-	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	-	-	-	-
Chlorobenzene	µg/L	0.5	<0.5	-	-	-	-
Bromoform (THM)	µg/L	0.5	<0.5	-	-	-	-
cis-1,4-dichloro-2-butene	µg/L	1	<1	-	-	-	-
Styrene (Vinyl benzene)	µg/L	0.5	<0.5	-	-	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	-	-	-	-
1,2,3-trichloropropane	µg/L	0.5	<0.5	-	-	-	-
trans-1,4-dichloro-2-butene	µg/L	1	<1	-	-	-	-

VOCs in Water [AN433] Tested: 15/10/2021 (continued)

PARAMETER	UOM	LOR	BH2M	GW-QD1	GW-QR1	GW-QTB1	GW-QTS1
			WATER - 13/10/2021 SE224584.001	WATER - 13/10/2021 SE224584.002	WATER - 13/10/2021 SE224584.003	WATER - 13/10/2021 SE224584.004	WATER - 13/10/2021 SE224584.005
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	-	-	-	-
Bromobenzene	µg/L	0.5	<0.5	-	-	-	-
n-propylbenzene	µg/L	0.5	<0.5	-	-	-	-
2-chlorotoluene	µg/L	0.5	<0.5	-	-	-	-
4-chlorotoluene	µg/L	0.5	<0.5	-	-	-	-
1,3,5-trimethylbenzene	µg/L	0.5	<0.5	-	-	-	-
tert-butylbenzene	µg/L	0.5	<0.5	-	-	-	-
1,2,4-trimethylbenzene	µg/L	0.5	<0.5	-	-	-	-
sec-butylbenzene	µg/L	0.5	<0.5	-	-	-	-
1,3-dichlorobenzene	µg/L	0.5	<0.5	-	-	-	-
1,4-dichlorobenzene	µg/L	0.3	<0.3	-	-	-	-
p-isopropyltoluene	µg/L	0.5	<0.5	-	-	-	-
1,2-dichlorobenzene	µg/L	0.5	<0.5	-	-	-	-
n-butylbenzene	µg/L	0.5	<0.5	-	-	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	-	-	-	-
1,2,4-trichlorobenzene	µg/L	0.5	<0.5	-	-	-	-
Hexachlorobutadiene	µg/L	0.5	<0.5	-	-	-	-
1,2,3-trichlorobenzene	µg/L	0.5	<0.5	-	-	-	-
Total VOC	µg/L	10	<10	-	-	-	-

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 15/10/2021

PARAMETER	UOM	LOR	BH2M	GW-QD1	GW-QR1
			WATER - 13/10/2021 SE224584.001	WATER - 13/10/2021 SE224584.002	WATER - 13/10/2021 SE224584.003
TRH C6-C9	µg/L	40	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 14/10/2021

PARAMETER	UOM	LOR	BH2M	GW-QD1	GW-QR1
			WATER - 13/10/2021 SE224584.001	WATER - 13/10/2021 SE224584.002	WATER - 13/10/2021 SE224584.003
TRH C10-C14	µg/L	50	<50	<50	<50
TRH C15-C28	µg/L	200	650	320	<200
TRH C29-C36	µg/L	200	220	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	820	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500
TRH C10-C40	µg/L	320	870	320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 14/10/2021

			BH2M
			WATER
			-
			13/10/2021
			SE224584.001
PARAMETER	UOM	LOR	
Naphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Total PAH (18)	µg/L	1	<1



ANALYTICAL RESULTS

SE224584 R0

Total Phenolics in Water [AN289] Tested: 18/10/2021

			BH2M
			WATER
			-
			13/10/2021
PARAMETER	UOM	LOR	SE224584.001
Total Phenols	mg/L	0.01	<0.01

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 14/10/2021

PARAMETER	UOM	LOR	BH2M	GW-QD1	GW-QR1
			WATER - 13/10/2021 SE224584.001	WATER - 13/10/2021 SE224584.002	WATER - 13/10/2021 SE224584.003
Arsenic, As	µg/L	1	1	1	<1
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1
Chromium, Cr	µg/L	1	<1	<1	<1
Copper, Cu	µg/L	1	1	<1	2
Lead, Pb	µg/L	1	<1	<1	<1
Nickel, Ni	µg/L	1	7	7	<1
Zinc, Zn	µg/L	5	11	12	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 14/10/2021

			BH2M	GW-QD1	GW-QR1
			WATER	WATER	WATER
			-	-	-
			13/10/2021	13/10/2021	13/10/2021
			SE224584.001	SE224584.002	SE224584.003
PARAMETER	UOM	LOR			
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

- AN020** Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
- AN289** Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D.
- AN311(Perth)/AN312** Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
- AN318** Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
- AN403** Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
- AN403** Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
- AN403** The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
- AN420** (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
- AN433** VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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CLIENT DETAILS

Contact Luiza Barbosa
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email Luiza.Barbosa@eiaustralia.com.au

Project **E25342 6-8 Woodburn St. Redfern-Add**
Order Number **E25342**
Samples 5

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE224584A R0**
Date Received 17/11/2021
Date Reported 18/11/2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



Ly Kim HA
Organic Section Head

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water [AN403] Tested: 18/11/2021

			BH2M
			WATER
			-
			13/10/2021
			SE224584A.001
PARAMETER	UOM	LOR	
TRH C10-C14-Silica	µg/L	50	<50
TRH C15-C28-Silica	µg/L	200	<200
TRH C29-C36-Silica	µg/L	200	<200
TRH C37-C40-Silica	µg/L	200	<200
TRH >C10-C16-Silica	µg/L	60	<60
TRH >C16-C34-Silica	µg/L	500	<500
TRH >C34-C40-Silica	µg/L	500	<500
TRH Sum C10-C36-Silica	µg/L	450	<450
TRH Sum C10-C40-Silica	µg/L	650	<650

METHOD

METHODOLOGY SUMMARY

AN403

Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.

AN403

Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRHsilica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.

AN403

The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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CLIENT DETAILS

Contact Andrew Schmidt
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.schmidt@eiaustralia.com.au
Project **E25342 6-8 Woodburn St. Redfern**
Order Number **E25342**
Samples 6

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com
SGS Reference **SE224584B R0**
Date Received 18/11/2021
Date Reported 18/11/2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



Dong LIANG
Metals/Inorganics Team Leader



ANALYTICAL RESULTS

SE224584B R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 18/11/2021

			GW-QRB1
			WATER
			-
			13/10/2021
			SE224584B.006
PARAMETER	UOM	LOR	
Copper, Cu	µg/L	1	<1

METHOD

METHODOLOGY SUMMARY

AN020

Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.

AN318

Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

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Solid samples expressed on a dry weight basis.

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If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
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For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

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CERTIFICATE OF ANALYSIS 280382

Client Details

Client	El Australia
Attention	Emmanuel Woelders
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E25342, Redfern</u>
Number of Samples	1 Water
Date samples received	14/10/2021
Date completed instructions received	14/10/2021

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.

Report Details

Date results requested by	21/10/2021
Date of Issue	21/10/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
Greta Petzold, Senior Report Coordinator

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		280382-1
Your Reference	UNITS	GW-QT1
Date Sampled		13/10/2021
Type of sample		Water
Date extracted	-	15/10/2021
Date analysed	-	18/10/2021
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	98
Surrogate toluene-d8	%	98
Surrogate 4-BFB	%	102

svTRH (C10-C40) in Water		
Our Reference		280382-1
Your Reference	UNITS	GW-QT1
Date Sampled		13/10/2021
Type of sample		Water
Date extracted	-	15/10/2021
Date analysed	-	15/10/2021
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	102

HM in water - dissolved		
Our Reference		280382-1
Your Reference	UNITS	GW-QT1
Date Sampled		13/10/2021
Type of sample		Water
Date prepared	-	15/10/2021
Date analysed	-	18/10/2021
Arsenic-Dissolved	µg/L	1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	6
Zinc-Dissolved	µg/L	10

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	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-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	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)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			15/10/2021	[NT]	[NT]	[NT]	[NT]	15/10/2021	[NT]
Date analysed	-			18/10/2021	[NT]	[NT]	[NT]	[NT]	18/10/2021	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	118	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-BFB	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			15/10/2021	[NT]	[NT]	[NT]	[NT]	15/10/2021	[NT]
Date analysed	-			15/10/2021	[NT]	[NT]	[NT]	[NT]	15/10/2021	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	98	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate o-Terphenyl	%		Org-020	107	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			15/10/2021	[NT]	[NT]	[NT]	[NT]	15/10/2021	[NT]
Date analysed	-			18/10/2021	[NT]	[NT]	[NT]	[NT]	18/10/2021	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	98	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

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.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Appendix M – Laboratory QA/QC Policies and DQOs



STATEMENT OF QA/QC PERFORMANCE

SE224433 R0

CLIENT DETAILS

Contact Emmanuel Woelders
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email emmanuel.woelders@eiaustralia.com.au

Project **E25342 6-8 Woodburn St, Redfern NSW**
Order Number **E25342**
Samples 12

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE224433 R0**
Date Received 08 Oct 2021
Date Reported 15 Oct 2021

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Surrogate	VOC's in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item
Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	TRH (Total Recoverable Hydrocarbons) in Soil	1 item
Matrix Spike	TRH (Total Recoverable Hydrocarbons) in Soil	3 items
	VOC's in Soil	1 item

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	10 Soil, 2 Water
Date documentation received	8/10/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	15°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Fibre Identification in soil

Method: ME-(AU)-[ENV]JAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.3-0.4	SE224433.002	LB234769	05 Oct 2021	08 Oct 2021	05 Oct 2022	14 Oct 2021	05 Oct 2022	15 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234769	06 Oct 2021	08 Oct 2021	06 Oct 2022	14 Oct 2021	06 Oct 2022	15 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234769	06 Oct 2021	08 Oct 2021	06 Oct 2022	14 Oct 2021	06 Oct 2022	15 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234769	05 Oct 2021	08 Oct 2021	05 Oct 2022	14 Oct 2021	05 Oct 2022	15 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234769	05 Oct 2021	08 Oct 2021	05 Oct 2022	14 Oct 2021	05 Oct 2022	15 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234769	06 Oct 2021	08 Oct 2021	06 Oct 2022	14 Oct 2021	06 Oct 2022	15 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234769	07 Oct 2021	08 Oct 2021	07 Oct 2022	14 Oct 2021	07 Oct 2022	15 Oct 2021
BH3M_0.3-0.4	SE224433.012	LB234769	07 Oct 2021	08 Oct 2021	07 Oct 2022	14 Oct 2021	07 Oct 2022	15 Oct 2021

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]JAN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE224433.010	LB234430	05 Oct 2021	08 Oct 2021	02 Nov 2021	11 Oct 2021	02 Nov 2021	11 Oct 2021

Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234702	05 Oct 2021	08 Oct 2021	02 Nov 2021	13 Oct 2021	02 Nov 2021	15 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234702	05 Oct 2021	08 Oct 2021	02 Nov 2021	13 Oct 2021	02 Nov 2021	15 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234702	06 Oct 2021	08 Oct 2021	03 Nov 2021	13 Oct 2021	03 Nov 2021	15 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234702	06 Oct 2021	08 Oct 2021	03 Nov 2021	13 Oct 2021	03 Nov 2021	15 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234702	05 Oct 2021	08 Oct 2021	02 Nov 2021	13 Oct 2021	02 Nov 2021	15 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234702	05 Oct 2021	08 Oct 2021	02 Nov 2021	13 Oct 2021	02 Nov 2021	15 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234702	06 Oct 2021	08 Oct 2021	03 Nov 2021	13 Oct 2021	03 Nov 2021	15 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234702	07 Oct 2021	08 Oct 2021	04 Nov 2021	13 Oct 2021	04 Nov 2021	15 Oct 2021
QD1	SE224433.009	LB234702	05 Oct 2021	08 Oct 2021	02 Nov 2021	13 Oct 2021	02 Nov 2021	15 Oct 2021

Moisture Content

Method: ME-(AU)-[ENV]JAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234513	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234513	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234513	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234513	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234513	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234513	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234513	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234513	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021
QD1	SE224433.009	LB234513	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	16 Oct 2021	13 Oct 2021

OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234487	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
QD1	SE224433.009	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021

OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234487	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
QD1	SE224433.009	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234487	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
QD1	SE224433.009	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234487	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021
QD1	SE224433.009	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	14 Oct 2021

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN404/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234699	05 Oct 2021	08 Oct 2021	03 Apr 2022	13 Oct 2021	03 Apr 2022	14 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234699	05 Oct 2021	08 Oct 2021	03 Apr 2022	13 Oct 2021	03 Apr 2022	14 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234699	06 Oct 2021	08 Oct 2021	04 Apr 2022	13 Oct 2021	04 Apr 2022	14 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234699	06 Oct 2021	08 Oct 2021	04 Apr 2022	13 Oct 2021	04 Apr 2022	14 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234699	05 Oct 2021	08 Oct 2021	03 Apr 2022	13 Oct 2021	03 Apr 2022	14 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234699	05 Oct 2021	08 Oct 2021	03 Apr 2022	13 Oct 2021	03 Apr 2022	14 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234699	06 Oct 2021	08 Oct 2021	04 Apr 2022	13 Oct 2021	04 Apr 2022	14 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234699	07 Oct 2021	08 Oct 2021	05 Apr 2022	13 Oct 2021	05 Apr 2022	14 Oct 2021
QD1	SE224433.009	LB234699	05 Oct 2021	08 Oct 2021	03 Apr 2022	13 Oct 2021	03 Apr 2022	14 Oct 2021

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE224433.010	LB234377	05 Oct 2021	08 Oct 2021	03 Apr 2022	08 Oct 2021	03 Apr 2022	12 Oct 2021

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234487	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234487	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021
QD1	SE224433.009	LB234487	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	20 Nov 2021	13 Oct 2021

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE224433.010	LB234537	05 Oct 2021	08 Oct 2021	12 Oct 2021	12 Oct 2021	21 Nov 2021	14 Oct 2021

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP2_0.3-0.4	SE224433.006	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234495	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	21 Oct 2021	13 Oct 2021
QD1	SE224433.009	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE224433.010	LB234611	05 Oct 2021	08 Oct 2021	19 Oct 2021	12 Oct 2021	19 Oct 2021	13 Oct 2021
Trip Blank	SE224433.011	LB234611	05 Oct 2021	08 Oct 2021	19 Oct 2021	12 Oct 2021	19 Oct 2021	13 Oct 2021

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M_0.9-1.0	SE224433.001	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
BH1M_0.3-0.4	SE224433.002	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
BH2M_0.5-0.6	SE224433.003	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
BH3M_0.4-0.5	SE224433.004	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
TP1_0.3-0.4	SE224433.005	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
TP2_0.3-0.4	SE224433.006	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021
TP3_0.3-0.4	SE224433.007	LB234495	06 Oct 2021	08 Oct 2021	20 Oct 2021	11 Oct 2021	20 Oct 2021	13 Oct 2021
TP4_0.2-0.3	SE224433.008	LB234495	07 Oct 2021	08 Oct 2021	21 Oct 2021	11 Oct 2021	21 Oct 2021	13 Oct 2021
QD1	SE224433.009	LB234495	05 Oct 2021	08 Oct 2021	19 Oct 2021	11 Oct 2021	19 Oct 2021	13 Oct 2021

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE224433.010	LB234611	05 Oct 2021	08 Oct 2021	19 Oct 2021	12 Oct 2021	19 Oct 2021	13 Oct 2021
Trip Blank	SE224433.011	LB234611	05 Oct 2021	08 Oct 2021	19 Oct 2021	12 Oct 2021	19 Oct 2021	13 Oct 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	111
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	113
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	117
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	113
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	113
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	113
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	112

OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	86
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	88
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	88
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	84
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	88
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	88
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	84
d14-p-terphenyl (Surrogate)	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	96
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	90
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	92
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	90
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	92
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	92
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	86

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	70 - 130%	88
	BH1M_0.3-0.4	SE224433.002	%	70 - 130%	86
	BH2M_0.5-0.6	SE224433.003	%	70 - 130%	88
	BH3M_0.4-0.5	SE224433.004	%	70 - 130%	88
	TP1_0.3-0.4	SE224433.005	%	70 - 130%	84
	TP2_0.3-0.4	SE224433.006	%	70 - 130%	88
	TP3_0.3-0.4	SE224433.007	%	70 - 130%	88
	TP4_0.2-0.3	SE224433.008	%	70 - 130%	84
d14-p-terphenyl (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	70 - 130%	96
	BH1M_0.3-0.4	SE224433.002	%	70 - 130%	96
	BH2M_0.5-0.6	SE224433.003	%	70 - 130%	90
	BH3M_0.4-0.5	SE224433.004	%	70 - 130%	92
	TP1_0.3-0.4	SE224433.005	%	70 - 130%	90
	TP2_0.3-0.4	SE224433.006	%	70 - 130%	92
	TP3_0.3-0.4	SE224433.007	%	70 - 130%	92
	TP4_0.2-0.3	SE224433.008	%	70 - 130%	86
d5-nitrobenzene (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	70 - 130%	82
	BH1M_0.3-0.4	SE224433.002	%	70 - 130%	80
	BH2M_0.5-0.6	SE224433.003	%	70 - 130%	82
	BH3M_0.4-0.5	SE224433.004	%	70 - 130%	82
	TP1_0.3-0.4	SE224433.005	%	70 - 130%	78
	TP2_0.3-0.4	SE224433.006	%	70 - 130%	82
	TP3_0.3-0.4	SE224433.007	%	70 - 130%	82
	TP4_0.2-0.3	SE224433.008	%	70 - 130%	78

PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	111
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	113
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	117
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	113
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	113
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	113
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	112

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	63
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	62
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	63
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	62
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	62
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	80
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	60 ①
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	63
	QD1	SE224433.009	%	60 - 130%	68
d4-1,2-dichloroethane (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	86
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	87
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	88
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	86
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	87
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	80
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	85
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	88
	QD1	SE224433.009	%	60 - 130%	91
d8-toluene (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	81
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	82
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	82
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	81
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	80
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	73
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	79
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	81
	QD1	SE224433.009	%	60 - 130%	71

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR1	SE224433.010	%	40 - 130%	96
	Trip Blank	SE224433.011	%	40 - 130%	96
d4-1,2-dichloroethane (Surrogate)	QR1	SE224433.010	%	40 - 130%	106
	Trip Blank	SE224433.011	%	40 - 130%	104
d8-toluene (Surrogate)	QR1	SE224433.010	%	40 - 130%	91
	Trip Blank	SE224433.011	%	40 - 130%	92

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	63
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	62
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	63
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	62
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	62
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	80
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	60 ①
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	63
	QD1	SE224433.009	%	60 - 130%	68
d4-1,2-dichloroethane (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	86
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	87
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	88
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	86
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	87
	TP2_0.3-0.4	SE224433.006	%	60 - 130%	80
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	85
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	88
	QD1	SE224433.009	%	60 - 130%	91
d8-toluene (Surrogate)	BH1M_0.9-1.0	SE224433.001	%	60 - 130%	81
	BH1M_0.3-0.4	SE224433.002	%	60 - 130%	82
	BH2M_0.5-0.6	SE224433.003	%	60 - 130%	82
	BH3M_0.4-0.5	SE224433.004	%	60 - 130%	81
	TP1_0.3-0.4	SE224433.005	%	60 - 130%	80

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued)**Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	TP2_0.3-0.4	SE224433.006	%	60 - 130%	73
	TP3_0.3-0.4	SE224433.007	%	60 - 130%	79
	TP4_0.2-0.3	SE224433.008	%	60 - 130%	81
	QD1	SE224433.009	%	60 - 130%	71

Volatile Petroleum Hydrocarbons in Water**Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR1	SE224433.010	%	40 - 130%	96
d4-1,2-dichloroethane (Surrogate)	QR1	SE224433.010	%	60 - 130%	106
d8-toluene (Surrogate)	QR1	SE224433.010	%	40 - 130%	91

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB234430.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB234702.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234487.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.2	<0.2
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	85

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234487.001	Dichlorvos	mg/kg	0.5	<0.5
	Dimethoate	mg/kg	0.5	<0.5
	Diazinon (Dimpylate)	mg/kg	0.5	<0.5
	Fenitrothion	mg/kg	0.2	<0.2
	Malathion	mg/kg	0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2	<0.2
	Methidathion	mg/kg	0.5	<0.5
	Ethion	mg/kg	0.2	<0.2
	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	2-fluorobiphenyl (Surrogate)	%	-	78
	d14-p-terphenyl (Surrogate)	%	-	100
Surrogates				

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234487.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234487.001	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	88
	2-fluorobiphenyl (Surrogate)	%	-	78
	d14-p-terphenyl (Surrogate)	%	-	100

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234487.001	Arochlor 1016	mg/kg	0.2	<0.2
	Arochlor 1221	mg/kg	0.2	<0.2
	Arochlor 1232	mg/kg	0.2	<0.2
	Arochlor 1242	mg/kg	0.2	<0.2
	Arochlor 1248	mg/kg	0.2	<0.2
	Arochlor 1254	mg/kg	0.2	<0.2
	Arochlor 1260	mg/kg	0.2	<0.2
	Arochlor 1262	mg/kg	0.2	<0.2
	Arochlor 1268	mg/kg	0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates			
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	85

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB234699.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB234377.001	Arsenic, As	µg/L	1	<1
	Cadmium, Cd	µg/L	0.1	<0.1
	Chromium, Cr	µg/L	1	<1
	Copper, Cu	µg/L	1	<1
	Lead, Pb	µg/L	1	<1
	Nickel, Ni	µg/L	1	<1
	Zinc, Zn	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB234487.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB234537.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR
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Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB234495.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
		d8-toluene (Surrogate)	%	-	84
		Bromofluorobenzene (Surrogate)	%	-	75
	Totals	Total BTEX	mg/kg	0.6	<0.6

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB234611.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	102
		d8-toluene (Surrogate)	%	-	91
		Bromofluorobenzene (Surrogate)	%	-	95

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB234495.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB234611.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	102
		d8-toluene (Surrogate)	%	-	91
		Bromofluorobenzene (Surrogate)	%	-	95

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224424.034	LB234430.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	128	48
SE224433.010	LB234430.017	Mercury	µg/L	0.0001	<0.0001	<0.0001	169	35

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.001	LB234702.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE224433.009	LB234702.023	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234513.011	% Moisture	%w/w	1	8.3	6.3	44	27
SE224433.009	LB234513.022	% Moisture	%w/w	1	17.9	18.0	36	1

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234487.014	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	172	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30	1
SE224433.008	LB234487.027	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	0.2	0.1	102	38
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	0.4	0.3	57	24

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.008	LB234487.027	Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.16	30	2

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234487.014	Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
		Malathion	mg/kg	0.2	<0.2	<0.2	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
		Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
		Ethion	mg/kg	0.2	<0.2	<0.2	200	0
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
		Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234487.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	0.2	0.3	67	30
		Anthracene	mg/kg	0.1	<0.1	<0.1	148	0
		Fluoranthene	mg/kg	0.1	0.4	0.6	50	24
		Pyrene	mg/kg	0.1	0.5	0.6	49	24
		Benzo(a)anthracene	mg/kg	0.1	0.2	0.3	68	38
		Chrysene	mg/kg	0.1	0.2	0.3	72	42
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.3	0.5	57	52
		Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.2	107	31
		Benzo(a)pyrene	mg/kg	0.1	0.2	0.4	66	55
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	0.3	78	48
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	0.2	0.3	78	57
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	0.3	0.5	63	51
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	0.4	0.6	73	41
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	0.3	0.5	57	45
		Total PAH (18)	mg/kg	0.8	2.4	3.5	57	37
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	4
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE224433.008	LB234487.027	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.008	LB234487.027	Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	0.1	0.1	113	0
		Pyrene	mg/kg	0.1	0.1	0.1	117	9
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	175	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	3
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234487.014	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
SE224433.008	LB234487.027	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	1
		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	2

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.001	LB234699.014	Arsenic, As	mg/kg	1	19	20	35	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	13	14	34	6
		Copper, Cu	mg/kg	0.5	13	14	34	14
		Nickel, Ni	mg/kg	0.5	<0.5	<0.5	200	0
		Lead, Pb	mg/kg	1	12	13	38	7
		Zinc, Zn	mg/kg	2	5.4	6.8	63	22
		Surrogates						
SE224433.009	LB234699.023	Arsenic, As	mg/kg	1	4	5	51	28
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	6.5	8.9	36	31
		Copper, Cu	mg/kg	0.5	8.2	9.6	36	16
		Nickel, Ni	mg/kg	0.5	1.6	<0.5	86	104 ③
		Lead, Pb	mg/kg	1	8	8	42	7

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.009	LB234699.023	Zinc, Zn	mg/kg	2	2.6	3.5	96	30

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE2244391.003	LB234377.014	Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Copper, Cu	µg/L	1	<1	<1	200	0
		Zinc, Zn	µg/L	5	32	33	30	3
SE224433.010	LB234377.027	Arsenic, As	µg/L	1	<1	<1	200	0
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	<1	<1	200	0
		Copper, Cu	µg/L	1	<1	<1	200	0
		Lead, Pb	µg/L	1	<1	<1	200	0
		Nickel, Ni	µg/L	1	<1	<1	200	0
		Zinc, Zn	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234487.014	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	100	190	61	59
		TRH C29-C36	mg/kg	45	130	230	56	56 @
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	230	410	64	58
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	470	94	77
		TRH F Bands						
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	180	330	65	59
		TRH >C34-C40 (F4)	mg/kg	120	<120	140	200	16
SE224433.008	LB234487.027	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands						
		TRH >C10-C16	mg/kg	25	<25	<25	200	0
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224462.001	LB234537.023	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	200	450	320	83	34
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	450	<320	114	33
		TRH F Bands						
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	540	<500	143	8
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234495.014	Monocyclic						
		Aromatic						
		Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic						
		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.9	50	1
		d8-toluene (Surrogate)	mg/kg	-	8.4	8.4	50	0
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	6.6	50	6
		Totals						
		Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
		Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224433.009	LB234495.025	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	8.8	50	3
			d8-toluene (Surrogate)	mg/kg	-	7.1	8.1	50	13
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.8	6.1	50	10
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0

VOCs in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224508.001	LB234611.025	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
	Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.9	11.7	30	16	
		d8-toluene (Surrogate)	µg/L	-	9.4	11.0	30	15	
		Bromofluorobenzene (Surrogate)	µg/L	-	9.8	10.6	30	9	

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224425.010	LB234495.014	TRH C6-C10	mg/kg	25	<25	<25	200	0
		TRH C6-C9	mg/kg	20	<20	<20	200	0
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.9	30	1
		d8-toluene (Surrogate)	mg/kg	-	8.4	8.4	30	0
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	6.6	30	6
	VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
		TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE224433.009	LB234495.025	TRH C6-C10	mg/kg	25	<25	<25	200	0
		TRH C6-C9	mg/kg	20	<20	<20	200	0
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	8.8	30	3
		d8-toluene (Surrogate)	mg/kg	-	7.1	8.1	30	13
		Bromofluorobenzene (Surrogate)	mg/kg	-	6.8	6.1	30	10
	VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
		TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234702.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	100

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234487.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	90
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	85
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	87
	Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	85
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	86
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	98
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.12	0.15	40 - 130	81

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234487.002	Dichlorvos	mg/kg	0.5	1.3	2	60 - 140	67
	Diazinon (Dimpylate)	mg/kg	0.5	1.5	2	60 - 140	77
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.5	2	60 - 140	76
	Ethion	mg/kg	0.2	1.3	2	60 - 140	67
Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	104
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234487.002	Naphthalene	mg/kg	0.1	3.7	4	60 - 140	91
	Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	103
	Acenaphthene	mg/kg	0.1	3.7	4	60 - 140	93
	Phenanthrene	mg/kg	0.1	3.4	4	60 - 140	86
	Anthracene	mg/kg	0.1	3.6	4	60 - 140	89
	Fluoranthene	mg/kg	0.1	3.5	4	60 - 140	87
	Pyrene	mg/kg	0.1	3.6	4	60 - 140	91
	Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	97
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	76
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	104
Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234487.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	94

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234699.002	Arsenic, As	mg/kg	1	320	318.22	80 - 120	102
	Cadmium, Cd	mg/kg	0.3	4.4	4.81	70 - 130	92
	Chromium, Cr	mg/kg	0.5	35	38.31	80 - 120	90
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	99
	Lead, Pb	mg/kg	1	90	89.9	80 - 120	100
	Zinc, Zn	mg/kg	2	270	273	80 - 120	99

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234377.002	Arsenic, As	µg/L	1	20	20	80 - 120	98
	Cadmium, Cd	µg/L	0.1	22	20	80 - 120	108
	Chromium, Cr	µg/L	1	22	20	80 - 120	110
	Copper, Cu	µg/L	1	22	20	80 - 120	109
	Lead, Pb	µg/L	1	20	20	80 - 120	102
	Nickel, Ni	µg/L	1	21	20	80 - 120	107
	Zinc, Zn	µg/L	5	23	20	80 - 120	114

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB234487.002	TRH C10-C14	mg/kg	20	30	40	60 - 140	75	
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	83	
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	75	
	TRH F Bands	TRH >C10-C16	mg/kg	25	32	40	60 - 140	80
	TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	78	
	TRH >C34-C40 (F4)	mg/ka	120	<120	20	60 - 140	75	

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB234537.002	TRH C10-C14	µg/L	50	850	1200	60 - 140	71	
	TRH C15-C28	µg/L	200	1100	1200	60 - 140	90	
	TRH C29-C36	µg/L	200	1100	1200	60 - 140	95	
	TRH F Bands	TRH >C10-C16	µg/L	60	1000	1200	60 - 140	86
	TRH >C16-C34 (F3)	µg/L	500	1100	1200	60 - 140	88	
	TRH >C34-C40 (F4)	µg/L	500	600	600	60 - 140	100	

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234495.002	Monocyclic	Benzene	mg/kg	0.1	4.2	5	60 - 140	83
	Aromatic	Toluene	mg/kg	0.1	4.4	5	60 - 140	89
		Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	93
		m/p-xylene	mg/kg	0.2	10	10	60 - 140	103
		o-xylene	mg/kg	0.1	5.0	5	60 - 140	100
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.3	10	70 - 130	103
		d8-toluene (Surrogate)	mg/kg	-	9.5	10	70 - 130	95
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	10	70 - 130	73

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234611.002	Monocyclic	Benzene	µg/L	0.5	53	45.45	60 - 140	116
	Aromatic	Toluene	µg/L	0.5	54	45.45	60 - 140	120
		Ethylbenzene	µg/L	0.5	53	45.45	60 - 140	117
		m/p-xylene	µg/L	1	110	90.9	60 - 140	118
		o-xylene	µg/L	0.5	54	45.45	60 - 140	118
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.1	10	60 - 140	111
		d8-toluene (Surrogate)	µg/L	-	10.0	10	70 - 130	100
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB234495.002	TRH C6-C10	mg/kg	25	68	92.5	60 - 140	74	
	TRH C6-C9	mg/kg	20	52	80	60 - 140	65	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	10	70 - 130	73
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/ka	25	40	62.5	60 - 140	64

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB234611.002	TRH C6-C10	µg/L	50	740	946.63	60 - 140	79	
	TRH C6-C9	µg/L	40	640	818.71	60 - 140	78	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.1	10	60 - 140	111
		d8-toluene (Surrogate)	µg/L	-	10.0	10	70 - 130	100
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	420	639.67	60 - 140	66

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224366.005	LB234430.004	Mercury	mg/L	0.0001	0.0021	<0.0001	0.008	104

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224392.001	LB234702.004	Mercury	mg/kg	0.05	0.21	0.02016362543	0.2	95

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234487.004	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	103
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	89
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	97
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	93
		Endrin	mg/kg	0.2	<0.2	<0.2	0.2	95
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.3	<0.1	0.2	108
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	-	96	

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234487.004	Dichlorvos	mg/kg	0.5	1.5	<0.5	2	73
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Diazinon (Dimpylate)	mg/kg	0.5	1.9	<0.5	2	93
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	<0.2	2	88
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
		Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
		Ethion	mg/kg	0.2	2.2	<0.2	2	109
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	7.3	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR
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Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234487.004	Naphthalene	mg/kg	0.1	3.7	<0.1	4	91
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	3.8	<0.1	4	94
		Acenaphthene	mg/kg	0.1	3.7	<0.1	4	91
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	3.5	0.1	4	85
		Anthracene	mg/kg	0.1	3.4	<0.1	4	85
		Fluoranthene	mg/kg	0.1	3.6	0.3	4	83
		Pyrene	mg/kg	0.1	3.8	0.3	4	87
		Benzo(a)anthracene	mg/kg	0.1	<0.1	0.1	-	-
		Chrysene	mg/kg	0.1	0.1	0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	0.2	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	3.6	0.1	4	88
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	3.7	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	3.8	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	3.7	0.2	-	-
		Total PAH (18)	mg/kg	0.8	29	1.5	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234487.004	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	92
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	96

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224392.001	LB234699.004	Arsenic, As	mg/kg	1	46	2.17101089015	50	88
		Cadmium, Cd	mg/kg	0.3	42	0.02204071969	50	84
		Chromium, Cr	mg/kg	0.5	52	13.0202927714€	50	79
		Copper, Cu	mg/kg	0.5	77	37.2703322285€	50	79
		Nickel, Ni	mg/kg	0.5	47	1.79054608585	50	91
		Lead, Pb	mg/kg	1	50	7.09133917297	50	86
		Zinc, Zn	mg/kg	2	63	22.9254971590€	50	79

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224345.031	LB234377.004	Arsenic, As	µg/L	1	21	<0.001	20	105
		Cadmium, Cd	µg/L	0.1	22	<0.0001	20	109
		Chromium, Cr	µg/L	1	23	0.001	20	109
		Copper, Cu	µg/L	1	25	0.004	20	106
		Lead, Pb	µg/L	1	21	<0.001	20	100
		Nickel, Ni	µg/L	1	24	0.003	20	104
		Zinc, Zn	µg/L	5	32	0.01	20	89

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR
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Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234487.004	TRH C10-C14	mg/kg	20	36	<20	40	90
		TRH C15-C28	mg/kg	45	120	120	40	0 ⑤
		TRH C29-C36	mg/kg	45	150	160	40	-23 ⑤
		TRH C37-C40	mg/kg	100	<100	<100	-	-
		TRH C10-C36 Total	mg/kg	110	310	280	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	230	230	-	-
		TRH >C10-C16	mg/kg	25	35	<25	40	88
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	35	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	200	230	40	-83 ⑤
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224425.001	LB234495.004	Monocyclic	Benzene	mg/kg	0.1	<0.1	5	75
		Aromatic	Toluene	mg/kg	0.1	<0.1	5	83
			Ethylbenzene	mg/kg	0.1	<0.1	5	88
			m/p-xylene	mg/kg	0.2	<0.2	10	97
			o-xylene	mg/kg	0.1	<0.1	5	95
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	10	91
			d8-toluene (Surrogate)	mg/kg	-	8.6	10	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.5	10	65 ①
		Totals	Total Xylenes	mg/kg	0.3	<0.3	-	-
			Total BTEX	mg/kg	0.6	<0.6	-	-

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224357.001	LB234611.026	Monocyclic	Benzene	µg/L	0.5	<0.5	45.45	111
		Aromatic	Toluene	µg/L	0.5	<0.5	45.45	113
			Ethylbenzene	µg/L	0.5	<0.5	45.45	112
			m/p-xylene	µg/L	1	<1	90.9	112
			o-xylene	µg/L	0.5	<0.5	45.45	111
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.3	10	73
			d8-toluene (Surrogate)	µg/L	-	8.8	9.5	88
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	9.9	96

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE224425.001	LB234495.004	TRH C6-C10	mg/kg	25	67	<25	92.5	72	
		TRH C6-C9	mg/kg	20	57	<20	80	71	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	9.7	10	91
			d8-toluene (Surrogate)	mg/kg	-	8.6	9.2	10	86
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.5	7.0	-	65
		VPH F	Benzene (F0)	mg/kg	0.1	3.8	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	40	<25	62.5	63

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE224357.001	LB234611.026	TRH C6-C10	µg/L	50	960	<50	946.63	101	
		TRH C6-C9	µg/L	40	840	<40	818.71	102	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.3	10	-	73
			d8-toluene (Surrogate)	µg/L	-	8.8	9.5	-	88
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	9.9	-	96
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-	
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	650	<50	639.67	102

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * NATA accreditation does not cover the performance of this service.
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE224584 R0

CLIENT DETAILS

Contact Andrew Schmidt
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.schmidt@eiaustralia.com.au

Project **E25342 6-8 Woodburn St. Redfern**
Order Number **E25342**
Samples 5

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE224584 R0**
Date Received 13 Oct 2021
Date Reported 20 Oct 2021

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	5 Water
Date documentation received	13/10/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234764	13 Oct 2021	13 Oct 2021	10 Nov 2021	14 Oct 2021	10 Nov 2021	14 Oct 2021
GW-QD1	SE224584.002	LB234764	13 Oct 2021	13 Oct 2021	10 Nov 2021	14 Oct 2021	10 Nov 2021	14 Oct 2021
GW-QR1	SE224584.003	LB234764	13 Oct 2021	13 Oct 2021	10 Nov 2021	14 Oct 2021	10 Nov 2021	14 Oct 2021

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	20 Oct 2021
GW-QD1	SE224584.002	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	20 Oct 2021
GW-QR1	SE224584.003	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	20 Oct 2021

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN289

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234946	13 Oct 2021	13 Oct 2021	10 Nov 2021	18 Oct 2021	10 Nov 2021	18 Oct 2021

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234824	13 Oct 2021	13 Oct 2021	11 Apr 2022	14 Oct 2021	11 Apr 2022	19 Oct 2021
GW-QD1	SE224584.002	LB234824	13 Oct 2021	13 Oct 2021	11 Apr 2022	14 Oct 2021	11 Apr 2022	19 Oct 2021
GW-QR1	SE224584.003	LB234824	13 Oct 2021	13 Oct 2021	11 Apr 2022	14 Oct 2021	11 Apr 2022	19 Oct 2021

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	19 Oct 2021
GW-QD1	SE224584.002	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	19 Oct 2021
GW-QR1	SE224584.003	LB234755	13 Oct 2021	13 Oct 2021	20 Oct 2021	14 Oct 2021	23 Nov 2021	19 Oct 2021

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QD1	SE224584.002	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QR1	SE224584.003	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QTB1	SE224584.004	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QTS1	SE224584.005	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584.001	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QD1	SE224584.002	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QR1	SE224584.003	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	18 Oct 2021
GW-QTB1	SE224584.004	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	19 Oct 2021
GW-QTS1	SE224584.005	LB234896	13 Oct 2021	13 Oct 2021	27 Oct 2021	15 Oct 2021	27 Oct 2021	19 Oct 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH2M	SE224584.001	%	40 - 130%	60
d14-p-terphenyl (Surrogate)	BH2M	SE224584.001	%	40 - 130%	74
d5-nitrobenzene (Surrogate)	BH2M	SE224584.001	%	40 - 130%	44

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH2M	SE224584.001	%	40 - 130%	101
	GW-QD1	SE224584.002	%	40 - 130%	101
	GW-QR1	SE224584.003	%	40 - 130%	101
	GW-QTB1	SE224584.004	%	40 - 130%	100
	GW-QTS1	SE224584.005	%	40 - 130%	99
d4-1,2-dichloroethane (Surrogate)	BH2M	SE224584.001	%	40 - 130%	97
	GW-QD1	SE224584.002	%	40 - 130%	100
	GW-QR1	SE224584.003	%	40 - 130%	98
	GW-QTB1	SE224584.004	%	40 - 130%	98
	GW-QTS1	SE224584.005	%	40 - 130%	104
d8-toluene (Surrogate)	BH2M	SE224584.001	%	40 - 130%	94
	GW-QD1	SE224584.002	%	40 - 130%	95
	GW-QR1	SE224584.003	%	40 - 130%	95
	GW-QTB1	SE224584.004	%	40 - 130%	95
	GW-QTS1	SE224584.005	%	40 - 130%	96

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH2M	SE224584.001	%	40 - 130%	101
	GW-QD1	SE224584.002	%	40 - 130%	101
	GW-QR1	SE224584.003	%	40 - 130%	101
d4-1,2-dichloroethane (Surrogate)	BH2M	SE224584.001	%	60 - 130%	97
	GW-QD1	SE224584.002	%	60 - 130%	100
	GW-QR1	SE224584.003	%	60 - 130%	98
d8-toluene (Surrogate)	BH2M	SE224584.001	%	40 - 130%	94
	GW-QD1	SE224584.002	%	40 - 130%	95
	GW-QR1	SE224584.003	%	40 - 130%	95

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB234764.001	Mercury	mg/L	0.0001	<0.0001

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB234755.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
	Dibenzo(ah)anthracene	µg/L	0.1	<0.1
	Benzo(ghi)perylene	µg/L	0.1	<0.1
Surrogates	d5-nitrobenzene (Surrogate)	%	-	58
	2-fluorobiphenyl (Surrogate)	%	-	66
	d14-p-terphenyl (Surrogate)	%	-	78

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN289

Sample Number	Parameter	Units	LOR	Result
LB234946.001	Total Phenols	mg/L	0.01	<0.01

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB234824.001	Arsenic, As	µg/L	1	<1
	Cadmium, Cd	µg/L	0.1	<0.1
	Chromium, Cr	µg/L	1	<1
	Copper, Cu	µg/L	1	<1
	Lead, Pb	µg/L	1	<1
	Nickel, Ni	µg/L	1	<1
	Zinc, Zn	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB234755.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB234896.001	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5
		1,2-dichloropropane	µg/L	0.5	<0.5
		cis-1,3-dichloropropene	µg/L	0.5	<0.5
		trans-1,3-dichloropropene	µg/L	0.5	<0.5
		1,2-dibromoethane (EDB)	µg/L	0.5	<0.5
	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5
		Chloromethane	µg/L	5	<5
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3
		Bromomethane	µg/L	10	<10
		Chloroethane	µg/L	5	<5
		Trichlorofluoromethane	µg/L	1	<1
		Iodomethane	uo/L	5	<5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB234896.001	Halogenated Aliphatics	1,1-dichloroethene	µg/L	0.5	<0.5
		Dichloromethane (Methylene chloride)	µg/L	5	<5
		Allyl chloride	µg/L	2	<2
		trans-1,2-dichloroethene	µg/L	0.5	<0.5
		1,1-dichloroethane	µg/L	0.5	<0.5
		cis-1,2-dichloroethene	µg/L	0.5	<0.5
		Bromochloromethane	µg/L	0.5	<0.5
		1,2-dichloroethane	µg/L	0.5	<0.5
		1,1,1-trichloroethane	µg/L	0.5	<0.5
		1,1-dichloropropene	µg/L	0.5	<0.5
		Carbon tetrachloride	µg/L	0.5	<0.5
		Dibromomethane	µg/L	0.5	<0.5
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
		1,1,2-trichloroethane	µg/L	0.5	<0.5
		1,3-dichloropropane	µg/L	0.5	<0.5
		Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5
		1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5
		cis-1,4-dichloro-2-butene	µg/L	1	<1
		1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5
		1,2,3-trichloropropane	µg/L	0.5	<0.5
		trans-1,4-dichloro-2-butene	µg/L	1	<1
		1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
	Halogenated Aromatics	Hexachlorobutadiene	µg/L	0.5	<0.5
		Chlorobenzene	µg/L	0.5	<0.5
		Bromobenzene	µg/L	0.5	<0.5
		2-chlorotoluene	µg/L	0.5	<0.5
		4-chlorotoluene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.3	<0.3
		1,2-dichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic Hydrocarbons	1,2,4-trichlorobenzene	µg/L	0.5	<0.5
		1,2,3-trichlorobenzene	µg/L	0.5	<0.5
		Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
		n-propylbenzene	µg/L	0.5	<0.5
		1,3,5-trimethylbenzene	µg/L	0.5	<0.5
		tert-butylbenzene	µg/L	0.5	<0.5
	Nitrogenous Compounds	1,2,4-trimethylbenzene	µg/L	0.5	<0.5
		sec-butylbenzene	µg/L	0.5	<0.5
		p-isopropyltoluene	µg/L	0.5	<0.5
		n-butylbenzene	µg/L	0.5	<0.5
		Acrylonitrile	µg/L	0.5	<0.5
	Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10
		MtBE (Methyl-tert-butyl ether)	µg/L	2	<1
		Vinyl acetate	µg/L	10	<10
		MEK (2-butanone)	µg/L	10	<10
		MIBK (4-methyl-2-pentanone)	µg/L	5	<5
	Polycyclic VOCs	2-hexanone (MBK)	µg/L	5	<5
		Naphthalene	µg/L	0.5	<0.5
	Sulphonated	Carbon disulfide	µg/L	2	<2
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	98
		d8-toluene (Surrogate)	%	-	93
		Bromofluorobenzene (Surrogate)	%	-	98
	Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5
		Bromodichloromethane (THM)	µg/L	0.5	<0.5
		Dibromochloromethane (THM)	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB234896.001	Trihalomethanes	Bromoform (THM)	µg/L	0.5

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB234896.001	TRH C6-C9	µg/L	40	<40
	d4-1,2-dichloroethane (Surrogate)	%	-	98
	d8-toluene (Surrogate)	%	-	93
	Bromofluorobenzene (Surrogate)	%	-	98

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584.003	LB234764.011	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	21

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN289

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224698.003	LB234946.011	Total Phenols	mg/L	0.01	<0.01	<0.01	200	0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224633.005	LB234824.029	Arsenic, As	µg/L	1	<1	<1	200	0
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	<1	<1	200	0
		Copper, Cu	µg/L	1	<1	<1	200	0
		Lead, Pb	µg/L	1	<1	<1	200	0
		Nickel, Ni	µg/L	1	<1	<1	200	0
		Zinc, Zn	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584.003	LB234755.022	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	200	<200	<200	200	0
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
		TRH F Bands						

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584.001	LB234896.023	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
			Chloromethane	µg/L	5	<5	<5	200	0
		Aliphatics	Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE224584.001	LB234896.023	Halogenated	1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0	
			Aliphatics	cis-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0	
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0	
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0	
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0	
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0	
			Halogenated	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics		Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0	
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0	
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0	
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0	
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0	
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0	
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0	
		Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0	
			Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
		Ethylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		m/p-xylene		µg/L	1	<1	<1	200	0	
		o-xylene		µg/L	0.5	<0.5	<0.5	200	0	
		Styrene (Vinyl benzene)		µg/L	0.5	<0.5	<0.5	200	0	
		Isopropylbenzene (Cumene)		µg/L	0.5	<0.5	<0.5	200	0	
		n-propylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		1,3,5-trimethylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		tert-butylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		1,2,4-trimethylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		sec-butylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		p-isopropyltoluene		µg/L	0.5	<0.5	<0.5	200	0	
		n-butylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		Nitrogenous		Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Oxygenated		Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds		MtBE (Methyl-tert-butyl ether)	µg/L	2	<2	<2	200	0
			Vinyl acetate	µg/L	10	<10	<10	200	0	
			MEK (2-butanone)	µg/L	10	<10	<10	200	0	
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0	
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0	
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0	
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.7	9.6	30	1	
			d8-toluene (Surrogate)	µg/L	-	9.4	9.7	30	4	
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.1	30	1	
		Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5	<0.5	177	0	
			Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0	
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0	
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0	
SE224628.001	LB234896.024	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0	
			Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
		Ethylbenzene		µg/L	0.5	<0.5	<0.5	200	0	
		m/p-xylene		µg/L	1	<1	<1	200	0	
		o-xylene		µg/L	0.5	<0.5	<0.5	200	0	
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.8	10.0	30	2	
			d8-toluene (Surrogate)	µg/L	-	9.3	9.8	30	5	
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.1	30	0	

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584.001	LB234896.023	TRH C6-C10	µg/L	50	<50	<50	200	0
		TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloromethane (Surrogate)	µg/L	-	9.7	9.6	30

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584.001	LB234896.023	Surrogates	d8-toluene (Surrogate)	µg/L	-	9.4	9.7	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.1	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE224628.001	LB234896.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.8	10.0	30	2
			d8-toluene (Surrogate)	µg/L	-	9.3	9.8	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.1	30	0
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234755.002	Naphthalene	µg/L	0.1	26	40	60 - 140	64
	Acenaphthylene	µg/L	0.1	34	40	60 - 140	84
	Acenaphthene	µg/L	0.1	30	40	60 - 140	76
	Phenanthrene	µg/L	0.1	36	40	60 - 140	89
	Anthracene	µg/L	0.1	35	40	60 - 140	87
	Fluoranthene	µg/L	0.1	37	40	60 - 140	91
	Pyrene	µg/L	0.1	35	40	60 - 140	88
	Benzo(a)pyrene	µg/L	0.1	38	40	60 - 140	95
	Surrogates						
	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	54
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	66
	d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	82

Total Phenolics in Water

Method: ME-(AU)-[ENV]JAN289

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234946.002	Total Phenols	mg/L	0.01	0.24	0.25	80 - 120	96

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]JAN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234824.002	Arsenic, As	µg/L	1	20	20	80 - 120	102
	Cadmium, Cd	µg/L	0.1	21	20	80 - 120	107
	Chromium, Cr	µg/L	1	21	20	80 - 120	107
	Copper, Cu	µg/L	1	21	20	80 - 120	105
	Lead, Pb	µg/L	1	20	20	80 - 120	101
	Nickel, Ni	µg/L	1	21	20	80 - 120	105
	Zinc, Zn	µg/L	5	20	20	80 - 120	99

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]JAN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234755.002	TRH C10-C14	µg/L	50	980	1200	60 - 140	81
	TRH C15-C28	µg/L	200	1400	1200	60 - 140	115
	TRH C29-C36	µg/L	200	1500	1200	60 - 140	122
	TRH F Bands						
	TRH >C10-C16	µg/L	60	1300	1200	60 - 140	106
	TRH >C16-C34 (F3)	µg/L	500	1500	1200	60 - 140	125
	TRH >C34-C40 (F4)	µg/L	500	800	600	60 - 140	134

VOCs in Water

Method: ME-(AU)-[ENV]JAN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB234896.002	Halogenated	1,1-dichloroethene	µg/L	0.5	55	45.45	60 - 140	120
	Aliphatics	1,2-dichloroethane	µg/L	0.5	52	45.45	60 - 140	114
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	43	45.45	60 - 140	95
	Halogenated	Chlorobenzene	µg/L	0.5	52	45.45	60 - 140	114
	Monocyclic	Benzene	µg/L	0.5	53	45.45	60 - 140	116
	Aromatic	Toluene	µg/L	0.5	52	45.45	60 - 140	114
		Ethylbenzene	µg/L	0.5	52	45.45	60 - 140	114
		m/p-xylene	µg/L	1	100	90.9	60 - 140	114
		o-xylene	µg/L	0.5	52	45.45	60 - 140	115
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	10	60 - 140	103
		d8-toluene (Surrogate)	µg/L	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94
	Trihalomethan	Chloroform (THM)	µg/L	0.5	58	45.45	60 - 140	127

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]JAN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB234896.002	TRH C6-C10	µg/L	50	760	946.63	60 - 140	81	
	TRH C6-C9	µg/L	40	650	818.71	60 - 140	79	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	10	60 - 140	103
		d8-toluene (Surrogate)	µg/L	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	450	639.67	60 - 140	70

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224583A.004	LB234824.004	Arsenic, As	µg/L	1	21	<1	20	105
		Cadmium, Cd	µg/L	0.1	22	<0.1	20	109
		Chromium, Cr	µg/L	1	22	<1	20	110
		Copper, Cu	µg/L	1	22	<1	20	107
		Lead, Pb	µg/L	1	21	<1	20	104
		Nickel, Ni	µg/L	1	22	<1	20	110
		Zinc, Zn	µg/L	5	22	<5	20	96

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE224611.002	LB234896.025	Monocyclic	Benzene	µg/L	0.5	53	0	45.45	118
		Aromatic	Toluene	µg/L	0.5	53	0.01377102412	45.45	117
			Ethylbenzene	µg/L	0.5	53	0.00458371961	45.45	116
			m/p-xylene	µg/L	1	100	0.01281519298	90.9	114
			o-xylene	µg/L	0.5	52	0.00635397674	45.45	114
			Polycyclic	Naphthalene	µg/L	0.5	51	0.01728571303	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.1	9.87166503606	-	101
			d8-toluene (Surrogate)	µg/L	-	10.3	9.51443092736	-	103
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	10.11771182005	-	96

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE224611.002	LB234896.025	TRH C6-C10	µg/L	50	2.80830300385	946.63	99
		TRH C6-C9	µg/L	40	2.35887475372	818.71	101
		Surrogates					
		d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.87166503606	-	101
		d8-toluene (Surrogate)	µg/L	-	9.51443092736	-	103
		Bromofluorobenzene (Surrogate)	µg/L	-	10.11771182005	-	96
		VPH F					
		Benzene (F0)	µg/L	0.5	0	-	-
		Bands					
		TRH C6-C10 minus BTEX (F1)	µg/L	50	2.80830300385	639.67	98

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE224584A R0

CLIENT DETAILS

Contact Luiza Barbosa
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email Luiza.Barbosa@eiaustralia.com.au

Project **E25342 6-8 Woodburn St. Redfern-Add**
Order Number **E25342**
Samples 5

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE224584A R0**
Date Received 17 Nov 2021
Date Reported 18 Nov 2021

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

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All Data Quality Objectives were met with the exception of the following:

Extraction Date	TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water	1 item
-----------------	---	--------

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	1 Water
Date documentation received	17/11/2021@5:34pm	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water**Method: ME-(AU)-ENVJAN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE224584A.001	LB237239	13 Oct 2021	17 Nov 2021	20 Oct 2021	18 Nov 2021†	28 Dec 2021	18 Nov 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water

Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB237239.001	TRH C10-C14-Silica	µg/L	50	<50
	TRH C15-C28-Silica	µg/L	200	<200
	TRH C29-C36-Silica	µg/L	200	<200
	TRH C37-C40-Silica	µg/L	200	<200

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

No duplicates were required for this job.

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB237239.002	TRH C10-C14-Silica	µg/L	50	910	1200	60 - 140	76
	TRH C15-C28-Silica	µg/L	200	1200	1200	60 - 140	99
	TRH C29-C36-Silica	µg/L	200	1300	1200	60 - 140	108
	TRH >C10-C16-Silica	µg/L	60	1000	1200	60 - 140	84
	TRH >C16-C34-Silica	µg/L	500	1400	1200	60 - 140	116
	TRH >C34-C40-Silica	µg/L	500	610	600	60 - 140	102

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE224584B R0

CLIENT DETAILS

Contact Andrew Schmidt
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email andrew.schmidt@eiaustralia.com.au

Project **E25342 6-8 Woodburn St. Redfern**
Order Number **E25342**
Samples 6

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE224584B R0**
Date Received 18 Nov 2021
Date Reported 18 Nov 2021

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	1 Water
Date documentation received	18/11/2021@10:36a	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	18°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Trace Metals (Dissolved) in Water by ICPMS**Method: ME-(AU)-ENVJAN318**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW-QRB1	SE224584B.006	LB237268	13 Oct 2021	18 Nov 2021	11 Apr 2022	18 Nov 2021	11 Apr 2022	18 Nov 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS**Method: ME-(AU)-[ENV]AN318**

Sample Number	Parameter	Units	LOR	Result
LB237268.001	Copper, Cu	µg/L	1	<1

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE224584B.006	LB237268.004	Copper, Cu	µg/L	1	<1	<1	200	0



LABORATORY CONTROL SAMPLES

SE224584B R0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB237268.002	Copper, Cu	µg/L	1	22	20	80 - 120	108

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here : https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * NATA accreditation does not cover the performance of this service .
- ** Indicative data, theoretical holding time exceeded.
- *** Indicates that both * and ** apply.
- Sample not analysed for this analyte.
- IS Insufficient sample for analysis.
- LNR Sample listed, but not received.
- LOR Limit of reporting.
- QFH QC result is above the upper tolerance.
- QFL QC result is below the lower tolerance.
- ① At least 2 of 3 surrogates are within acceptance criteria.
- ② RPD failed acceptance criteria due to sample heterogeneity.
- ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
- ④ Recovery failed acceptance criteria due to matrix interference.
- ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
- ⑥ LOR was raised due to sample matrix interference.
- ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
- ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
- ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
- ⑩ LOR was raised due to high conductivity of the sample (required dilution).
- † Refer to relevant report comments for further information.

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Appendix N – QA/QC Assessment

N.1 Project QA/QC Protocols

Quality assurance comprises an assessment of the reliability of the field procedures and the laboratory results against standard industry practices and the SAQP. A summary of the project QA/QC protocols incorporated into this DSI is presented in **Table N-1**.

Table N-1 QA/QC Protocols

Task	Description	Comments / Compliance with SOP or DQI
Field QA/QC		
Duplicates	Field duplicates were collected / analysed as follows: - intra-laboratory (blind) duplicates at a rate of 1 in 20 primary samples (as per NEPM); and - inter-laboratory (split) duplicates at a rate of 1 in 20 primary samples (as per NEPM). RPD should be as per Table 5-2, Section 5.3 .	Yes. Field QC samples are summarised in Table J-2 and calculated RPD values for soil and groundwater are displayed in Tables 3.1 and 3.2 (Appendix B) . RPDs were generally within the acceptable range limit with the exception of the following: <u>Soil:</u> - QD1: - Copper (RPD=45.3%). - Lead (RPD=47.6%). Exceedances of the RPD range limit for soil duplicates were likely to be due to the heterogeneous nature of the fill.
Rinsate	Sampling equipment decontaminated after the collection of sample by washing with phosphate-free detergent (Decon 90) and potable water, followed by a final distilled water rinse. Field rinsate sample results were considered acceptable when analyte concentrations were below the corresponding LOR.	Yes. All analytes in the soil (QR1) and water (GW-QR1) below laboratory quantitation limits, except for copper in groundwater equipment rinsate sample. Copper concentration was low in groundwater sample BH2M. The non-compliance was considered to not interfere in the overall data quality.
Trip blanks	Trip blank samples were prepared and analysed by the primary laboratory for BTEX. Analytical results for trip blank samples should be below the laboratory PQLs, indicating that ideal sample transport and handling conditions were achieved.	Yes. All analytes in the soil (QTB1) and water (GW-QTB1) trip blanks were below laboratory quantitation limits.
Trip spikes	Trip spike samples were prepared and analysed by the primary laboratory for BTEX. Acceptance criteria of spike recoveries were between 70-130%, indicating that satisfactory sample transport and handling conditions were achieved.	Yes. Recoveries for water (GW-QTS1) ranged from 99% to 101%.

Task	Description	Comments / Compliance with SOP or DQI
Laboratory QA/QC		
Laboratory analysis	The laboratories selected were NATA accredited for the analytes selected and performed their own internal QA/QC programs.	Yes SGS - primary laboratory. Envirolab - secondary laboratory.
	Appropriate detection limits used for the analyses to be undertaken.	Practical Quantitation Limits for all tested parameters were presented in the laboratory analytical reports (Appendix L).
Holding times	Holding times are the maximum permissible elapsed time in days from the collection of the sample to its extraction and/or analysis. All extraction and analyses should be completed within standard guidelines.	All DQOs were met except for the following: <u>Groundwater:</u> Silica gel clean-up test was requested after holding times. Extraction date was due 20 October 2021. Sample extraction was completed on 18 November 2021.
Laboratory duplicates	Laboratory duplicates are samples that are split in the laboratory and subsequently analysed a number of times in the same batch. These sub-samples are selected by the laboratory to assess the accuracy and precision of the analytical method. The selected laboratories should undertake QA/QC procedures such as calibration standards, laboratory control samples, surrogates, reference materials, sample duplicates and matrix spikes. Intra-laboratory duplicates should be performed at a frequency of 1 per 10 samples.	All laboratory duplicates for soil samples and the majority of laboratory duplicates for groundwater were within the acceptance criteria. Laboratory DQO documents are attached in Appendix M . Laboratory duplicate which failed was as follow: <u>Soil:</u> - SE224433.009 (duplicate LB234699.023), - Copper (RPD = 104%). The results were less than 5 times LOR precluding acceptance criteria for RPD. - SE224425.010 (duplicate LB234487.014), - TRH C29-C36 (RPD = 56%). The RPD failed the acceptance criteria due to sample heterogeneity. Minor non-compliance.
Laboratory control standards	A laboratory control standard is a standard reference material used in preparing primary standards. The concentration should be equivalent to a mid-range standard to confirm the primary calibration. Laboratory control samples should be performed on a frequency of 1 per 20 samples or at least one per analytical run.	The Laboratory Control Samples for the analysis batches were within acceptable ranges.

Task	Description	Comments / Compliance with SOP or DQI
Matrix spikes	These are field samples to which a predetermined stock solution of known concentration has been added. The samples are then analysed for recovery of the known addition. Recoveries should be within the stated laboratory control limits of 70 to 130% and duplicates should have RPDs of less than 50%.	All spikes were within acceptable ranges, except for the following: <u>Soil:</u> - SE224425.001 (sample LB234487.004): - TRH C15-C28 (Recovery = 0%). - TRH C29-C36 (Recovery = -23%). - F3 (Recovery = -83%). Recovery failed the acceptance criteria due to the presence of significant concentration of analyte. - SE224425.001 (sample LB234495.004): - Bromofluorobenzene (surrogate) = (Recovery = 65%). At least 2 of 3 surrogates are within acceptance criteria. Minor non-compliance.
Surrogates	Surrogate spikes provide a means of checking, for every analysis that no gross errors have occurred at any stage of the procedure leading to significant analyte loss. Recoveries should be within the stated laboratory control limits.	All surrogate spikes for the analysis batches were within acceptable ranges.
Conclusion	The QA/QC indicators should either all comply with the required standards or showed no variations that would have no significant effect on the quality of the data.	Yes.

N.2 Calculation of Relative Percentage Difference (RPD)

The RPD values were calculated using the following equation:

$$RPD = \frac{|C_O - C_R|}{[(C_O + C_R)/2]} \times 100$$

Where:

C_O = Concentration obtained for the primary sample; and

C_R = Concentration obtained for the blind replicate or split duplicate sample.

N.3 Field QA/QC

N.3.1 Field QC Samples

The field quality control samples collected during the investigation works are identified in **Table N-2**. Analytical results for the field QC samples are tabulated in **Tables 3.1** and **3.2**.

Table N-2 Field QC Sampling Program

Activity	Matrix	Total No Samples	Primary Sample	Intra-Lab Duplicate	Inter-Lab Duplicate	Number Duplicates	Ratio
Field QC Samples - Duplicates							
Soil	Soil	8	BH3M_0.4-0.5	QD1	QT1	1	1:8
Groundwater	Water	1	BH2M	GW-QD1	GW-QT1	1	1:1
Other Field QC Samples							
Soil	Soil Water	QTB1 (soil trip blank). QR1 (equipment rinsate); QRB1 (rinsate water; not analysed).					
Groundwater	Water	GW-QTB1 (water trip blank); GW-QTS1 (water trip spike); GW-QR1 (equipment rinsate), GW-QRB1 (rinsate water; analysed).					

N.3.2 Conclusion for the Field QA/QC

All field work, including equipment decontamination and sample preservation and transport, was conducted in accordance with the SAQP and SOPs, which were devised with reference to industry-approved guidelines. All samples, including field QC samples, were transported to the primary and secondary laboratories under refrigerated conditions, using strict COC procedures. Appropriate QC measures were integrated into each sampling event and the DQI were met, or if not, the variability was suitably justified. Non-compliances were minor and unlikely to affect reliability of the data set.

EI considered the field QA/QC program carried out during the DSI to be appropriate.

N.4 Laboratory QA/QC Data

All contracted laboratories (SGS and Envirolab) were accredited by NATA for the analyses undertaken. All analytical procedures used were industry recognised and endorsed standard methods. Appropriate QC measures were integrated into each testing batch and the DQI were met, or if not, the variability was suitably justified. Non-compliances were minor and unlikely to affect reliability of the data set.

EI considered the laboratory QA/QC programs carried out during the DSI to be appropriate.

N.5 Summary Of Project QA/QC

The sampling (including sample preservation, transport and decontamination procedures) and laboratory methods followed during this investigation were consistent with EI protocols. The project DQOs specified in **Section 5.2, Table 5-1** were considered to have been achieved. The adopted QA/QC program ensured that the data collated during the DSI were accurate, precise and representative of the (final) site conditions. It was therefore considered that the data were sufficiently precise and accurate and that the data was reliable for interpretation.