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SUPER STAR HOLDING GROUP PTY LTD

Detailed Site Investigation

164-170 Croatia Ave, Edmondson Park NSW

E24744.E02_Rev0
26 October 2020

Document Control

Report Title: Detailed Site Investigation

Report No: E24744.E02_Rev0

Copies	Recipient
1 Soft Copy (PDF – Secured, issued by email)	Marx Lin Super Star Holding Group Pty Ltd Level 2, 12 Queen St, Chippendale
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Revision	Details	Date	Amended By
Draft	Draft	07 September 2020	-
0	Final	26 October 2020	EI Australia

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Executive Summary

Background and Objectives

Mr Marx Lin, of Super Star Holding Group Pty Ltd, engaged EI Australia (EI) to conduct a Detailed Site Investigation (DSI) of the land parcel located at 164-170 Croatia Ave, Edmondson Park NSW (herein referred to as the 'the site').

The site is located approximately 22 km south-west of the Parramatta Central Business District within the Local Government Area (LGA) of Liverpool City Council (**Figure 1**). The site is cadastrally identified as Lot 25-26 in DP228850, and covers a total area of approximately 43,000 m^2, as depicted in the site plan presented as **Figure 2**. At the time of this investigation the site was a vacant area covered by grass and trees.

EI understand that this DSI will form part of a Development Application (DA) to Liverpool City Council for proposed redevelopment of the property. Proposed development plans (Ref. Tony Owen Partners, Project no. 1098, Dated, June 2020) indicate the site redevelopment will include the construction of multiple high density residential apartment buildings overlying two level basement carpark, public open spaces and roadways predominantly in the central and south western portion of the site as shown in **Appendix C**. Existing creek re-alignment and revegetation are planned in the northern part of the site.

Key Findings

- The site was vacant land covered by tall grasses (up to 1.3m height) and scattered mature trees with a creek located in the central portion of the site. Trees were identified on either side of the creek. Standing water was observed in the creek and a concrete culvert was observed in the north-western portion of the site.
- No building structures were observed on the site in July 2020. An abandoned car (**Photograph 4**) was identified in the north portion of the site, as shown in **Figure 2**. Some vehicle related wastes (tyres, metal and glass) were also identified around the abandoned car (**Photograph 5**). Waste tyres are considered Special Waste in accordance with the NSW EPA Waste Classification Guidelines (EPA 2014).
- The historical aerial photograph dated 6 May 2018, indicated that some demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek, as shown on **Figure 4.** However, no rubble stockpile or demolition waste was identified during the time of the site inspection; also no building rubbles and demolition wastes were identified from any of the boreholes in that area.
- Steep topographical change was observed in the south portion of the site (**Photograph 9**) where the ground surface in the south-western portion of the site is higher than the ground surface in the south-eastern portion of the site. The survey plan (**Appendix C**), also confirms that the ground surface elevation changes from approximate 47.02 mAHD (The south-eastern corner of the site) to approximate 56.25 mAHD (the south-western corner of the site).
- Review of land titles records and historic aerial photography indicated that the site was vacant land until sometime between 1965 and 1978 when a residential dwelling and market garden or agricultural land use began to occupy the land. A Croatian community co-op group owned the land from 1962-1965. A large shed was constructed on the land between

1989 and 1998 and demolished sometime between July 2010 and May 2011. The residential dwelling was demolished sometime between 12 December 2017 and 6 May 2018 under a demolition permit. There is evidence that demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek.

- The site was free of statutory notices issued by the EPA, and was not recorded on the list of NSW Contaminated Sites Notified to the EPA/POEO public register;
- Soil sampling and analysis was conducted at fifty (50) test bore locations:
  - The sub-surface layers comprised a layer of topsoil and/or fill overlying natural clays;
  - An assessment against the NEPM (2013) HIL-A/HSL- A & B investigation levels did not indicate soil samples (composite or individual) exceeding adopted criteria; and
  - An assessment against the NEPM (2013) and site specific EIL/ESL investigation levels did not indicate soil samples (composite or individual) exceeding adopted criteria.
- Groundwater was generally found below depths of 4 to 5 mBEGL. Artesian flow was observed within the wells BH4M and BH5M, with steady water flow within BH4M and a stable, above surface groundwater level within the stick up section of the monitoring well BH5M. The creek adjacent to BH4M and BH5M was observed to be a perennial stream with stagnant and relatively shallow ponded water.
- Asbestos was not identified during intrusive sampling.
- A full study of the creek sediments, infrastructure filling, and surface water were not undertaken. Given the site topography and former land uses, the creek represents a potential deposition zone for land run-off with contaminant loading potentially collecting in the sediments.

Conclusions and Recommendations

Taking into account the above considerations and subject to the statement of limitation (**Section 13**), EI consider that the site can be made suitable for its proposed use.

Based on the findings presented above, EI provide the following recommendations:

- A targeted data gap investigation focussing on the north-eastern portion of the site (i.e. the levelling of former house and shed were identified in the northeast part of the site) and along the creek (i.e. location of stormwater tank demolition and filling at a culvert) should be conducted to determine the impact of potential historical demolition and earthmoving activities.
- As noted in the geotechnical investigation, additional groundwater monitoring wells particularly along the creek to the north should be constructed for long term groundwater monitoring, seepage modelling, and ongoing monitoring of groundwater inflows into the bulk excavation is required.
- Prior to any burial, dredging or use of sediments within the creek, an assessment of these sediments and waters should be undertaken. Fill placement around creek infrastructure, such as the concrete culvert, should also be assessed at the time of removal. Existing and new wells noted above may also be suitable for environmental assessment associated with realignment of the creek, as needed.

- Waste materials being removed from site (including virgin excavated natural materials or VENM) as part of site development are to be classified for off-site disposal in accordance the EPA (2014) *Waste Classification Guidelines.*
- Any material being imported to the site (i.e. for landscaping purposes) should be assessed for potential contamination in accordance with NSW EPA guidelines as being suitable for the intended use or be classified as VENM.

1. Introduction

Mr Marx Lin, of Super Star Holding Group Pty Ltd, engaged EI Australia (EI) to conduct a Detailed Site Investigation (DSI) of the land parcel located at 164-170 Croatia Ave, Edmondson Park NSW (herein referred to as the site).

The site is located approximately 22 km south-west of the Parramatta Central Business District within the Local Government Area (LGA) of Liverpool City Council (**Figure 1**). The site is cadastrally identified as Lot 25-26 in DP228850, and covers a total area of approximately 43,000 m^2, as depicted in the site plan presented as **Figure 2**. At the time of this investigation the site was a vacant area covered by grass and trees.

EI understand that this DSI will form part of a Development Application (DA) to Liverpool City Council for proposed redevelopment of the property.

1.1 Proposed Development

Proposed development plans (Ref. Tony Owen Partners, Project no. 1098, Dated, June 2020) indicate the site redevelopment will include the construction of multiple high density residential apartment buildings overlying two level basement carpark, public open spaces and roadways predominantly in the central and south western portion of the site as shown in **Appendix C**. Existing creek re-alignment and revegetation are planned in the northern part of the site.

1.2 Regulatory Framework

The following regulatory framework and guidelines were considered during the preparation of this report:

- *Contaminated Land Management Act 1997* (CLM Act);
- *State Environment Protection Policy 55 Remediation of Land, under the NSW Environmental Planning and Assessment Act 1997 (SEPP 55);*
- Consultants reporting on contaminated land guidelines, NSW EPA, 5 May 2020 (NSW EPA, 2020);
- Liverpool Local Environmental Plan 2008;
- Guidelines for the Assessment and Management of Groundwater Contamination, DEC 2007 (DEC, 2007);
- NSW Work Health and Safety Act 2011;
- National Environmental Protection (Assessment of Site Contamination) Measure 1999 (Amendment 2013), in particular Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater and Schedule B(2) Guideline on Site Characterisation, NEPC 2013 (NEPC, 2013);
- Contaminated Land Management: Guidelines on the Duty to Report Contamination, EPA, 2015 (EPA, 2015);
- Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme, EPA, 2017 (EPA, 2017); and
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Anzecc, 2000 (anzecc, 2000).

1.3 Project Objectives

The main objectives of this DSI were:

- to evaluate the potential for site contamination on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources; and
- to investigate the degree of potential contamination by means of intrusive sampling and laboratory analysis, for relevant contaminants of concern.

A further objective, should site contamination be confirmed, was to make recommendations for the appropriate management of any contaminated soils and/or groundwater.

1.4 Scope of Works

The following scope of works was undertaken to achieve the above objectives:

- A review of relevant hydrogeological, acid sulfate soil and soil landscape maps for the project area;
- Review of any previous completed environmental reports (if available);
- Detailed site walkover inspection;
- Search of historical aerial photographs archived at the NSW Land and Property Information in order to review previous site use and the historical sequence of land development in the neighbouring area;
- Site history survey involving a detailed search of Council for information relating to operational site history;
- A land titles search, also conducted through NSW Land and Property Information;
- Review of existing underground services on site;
- A search through the Office of Environment and Heritage Land Information records to confirm that there are no statutory notices on the site under the Contaminated Land Management Act (1997);
- Drilling, sampling and logging of fifty boreholes distributed in a triangular systematic grid pattern across accessible areas of the site;
- Multiple level soil sampling within fill and natural soils;
- Laboratory analysis of selected soil samples for relevant analytical parameters as determined from the site history survey and field observations during the investigation program; and
- Data collation, assessment and reporting.

2. Site Description

2.1 Property Identification, Location, and Physical Setting

The site identification details and associated information are presented in **Table 2-1**, while the site locality is shown in **Figure A1**.

Table 2-1 Site Identification

Attribute	Description
Street Address	164-170 Croatia Ave, Edmondson Park NSW
Location Description	The site is located approx. 22 km south-west of the Parramatta CBD, bound by: **North**: Croatia Avenue, followed by a cattle farm; **East**: Rural residential properties, followed by new subdivision lands; **South**: Railway track followed by construction site; and **West**: Soldiers parade, followed by vacant land and residential properties.
Site Coordinates	Northern corner of site (GDA2020-MGA56): **Easting:** 302437.181 **Northing:** 6239516.179 (Source: http://maps.six.nsw.gov.au)
Site Area	Approx. 4.3 ha
Lot and Deposited Plan (DP)	Lot 25 and 26 in DP 228850
State Survey Marks	1 Permanent Mark (PM) is situated in close proximity (<100 m) to the site: PM50461 (Approximately 53 m south-east to the corner of Croatia Avenue and Soldiers parade);
Local Government Authority	Liverpool City Council
Current Zoning	R1 – General Residential RE1: Public Recreation B4: Mixed use (Source: Liverpool Local Environmental Plan 2008)

2.2 Local Land Use

The site is situated within an area of rural residential with several residential subdivision within 2 km surrounding the site, as described in **Table 2-2**. The potential local receptors within close proximity to the site are also identified.

Table 2-2 Local Land Use

Direction	Land Use Description	Potential sensitive Receptors and distance from the site
North	Croatia Avenue and Ardennes Avenue beyond which is cattle farm and rural residential	Residential houses located 300 m north west of the northern boundary of the site. St Francis Catholic college located 710m north-west of the site.
East	Ardennes Avenue beyond which are Rural residential properties	Bardia Family Day Care located 1km east of the eastern boundary of the site.
South	Railway track beyond which is a construction.	Construction workers working in the construction site located 350m south of the southern boundary of the site. Bardia Public School located 750m south of the southern boundary of the site.
West	Soldiers Parade, followed by vacant land beyond which are residential properties.	Residential dwellings located 800m west of the western boundary of the site. Clermont Park located 700m west of the western boundary of the site.

2.3 Regional Setting

Regional and local topography, geology, soil landscape and hydrogeological information are summarised in **Table 2-3**.

Table 2-3 Regional Setting

Attribute	Description
Topography	The site is located on the lower eastern side of Soldiers Parade and the lower southern side of Croatia Avenue. Site levels vary from RL 47.94m at the north-eastern site corner to RL 56.25m at the south-western site corner with toe of bank levels in the creek ranging from RL47m to RL46.30m. The site is within gently dipping topography sloping towards the creek on both sides of the creek.
Site Drainage	Site drainage is likely to be consistent with the general slope of the site. The majority of the site was covered by grass. Therefore, stormwater is likely to infiltrate into the ground. With reference to the site survey plan (**Appendix C**) provided by the client, the site topography allows surface water drain to the creek in the central portion of the site.
Regional Geology	Based on the Department of Mineral Resources Geological Map Penrith 1:100,000 Geological Series Sheet 9030 (DMR 1991), the site is indicated to be underlain by Bringelly (Rwb) Shale, carbonaceous claystone, claystone, laminite, fine to medium-grained lithic sandstone, rare coal and tuff.
Soil Landscapes	The Soil Landscape Map of Penrith (soil Landscape Series Sheet 9030, Scale 1:100,000, 1989), prepared by the Soil Conservation Service of NSW, indicates that the site is located within the South Creek landscape area and typically consists of highly plastic and relatively impermeable alluvial soil.

Attribute	Description
Acid Sulfate Soil (ASS) Risk	There was no Acid Sulfate Soils (ASS) risk classification map pertaining to the site available on the Liverpool Local Environmental Plan, 2008. With reference to the Liverpool Acid Sulfate Soil Risk Map (1:25,000 scale; Murphy, 1997), the subject land lies within the map class description of No Known Occurrences. In such cases, there is a low probability of occurrence of acid sulphate soil (ASS) material within the soil profile. Based on the above, further ASS investigation is not considered warranted for the purposes of this DSI.
Potential aquatic ecosystem receiving water body	The Maxwells creek in the central portion of the site.
Anticipated Groundwater Flow Direction	Groundwater flow direction is not known but may flow into the Maxwells creek located in the central portion of the site and then flow into Maxwell Creek located approximate 3.4km to the north of the site which is the tributary of Cabramatta Creek and Georges River.

2.4 Groundwater Bore Records and Local Groundwater Use

An online search of registered groundwater bores was conducted by EI on 30 July 2020 through the WaterNSW (Ref. https://realtimedata.waternsw.com.au/water.stm). There were no registered bores within a 500 m radius of the site. A groundwater bore map is attached in **Appendix E**.

2.5 Site Walkover Inspection

Site observations were recorded during a site walkover of the site conducted on 23rd August 2020 by an EI environmental engineer. A summary of site observations are detailed below and site photographs taken during the site walk-over are enclosed in **Appendix D**.

- The site was vacant land covered by tall grasses (up to 1.3m height) and scattered mature trees with a creek located in the central portion of the site (**Photographs 1 and 2**). Trees were identified on either side of the creek. Standing water was observed in the creek and a concrete culvert was observed in the north-western portion of the site.
- No building structures were observed on the site. An abandoned car (**Photograph 4**) was identified in the north portion of the site, as shown in **Figure 2**. Some vehicle related wastes (tyres, metal and glass) were also identified around the abandoned car (**Photograph 5**).
- Intact post and metal wire farm fences bisected the land in the south-east portion of the site (**Photograph 6**).
- No suspicious odours or evidence of contamination (i.e. staining, discolouration, drums, distressed vegetation) were observed in any part of the site;
- No evidence indicative of underground petroleum storage systems (UPSS) was observed on any parts of the site; and,
- The property to the north of the site was being used as a cattle farm (**Photograph 3**). The surrounding lands were observed to be rural residential.
- The historical aerial photo dated 6 May 2018, indicated that demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek, as shown on **Figure 4.** However, no rubble

stockpile or demolition waste was identified during the time of the site inspection; also no building rubbles and demolition wastes were identified from any of the boreholes completed by EI (July 2020) in that area.

- Steep topographical change was observed in the south portion of the site (**Photograph 9**) where the ground surface in the south-western portion of the site is higher than the ground surface in the south-eastern portion of the site. The survey plan (**Appendix C**), also confirms that the ground surface elevation changes from approximate 47.02 mAHD (south-eastern corner of the site) to approximate 56.25 mAHD (the south-western corner of the site).

In summary, the site walkover inspection did not identify any evidence of contamination on site or source of contamination from the neighbouring properties.

The detailed location of abandoned car and its related wastes are presented in **Figure 2**.

3. Previous Environmental Investigations

EI are unaware of any previous environmental investigations having been completed at the site.

4. Site History and Searches

4.1 Historic Land Titles

A historical land titles search was conducted through InfoTrack Pty Ltd on 5 July 2020. Copies of relevant documents resulting from this search are presented in **Appendix F**. A summary of all the previous and current registered proprietors (**Table 4-1**).

Table 4-1 Summary of Owner History

Date of Acquisition and term held	Registered Proprietor(s) & Occupations (where documented)
1819 to 1962	Private owners
1962 to 1966	Croatian Community Advancement Co-Operative Society Limited
1966 to 2019	Private owners
22.11.2019 (2019 to date)	# 90 Croatia Properties Pty Ltd

Note 1 # denotes current registered proprietor

4.2 Historic Aerial Photograph Review

Information obtained from the available historical aerial photographs, in relation to past potential land uses is provided in **Table 4-2**. The historical aerial photographs reviewed as part of this DSI included:

- **1930:** Map/Survey 3423, Sydney Survey, 10-2-1930, Run 27;
- **1956:** NSW 235, LANDS PHOTO;
- **1965:** NSW 1405 5023, LANDS PHOTO;
- **1978:** NSW 2714 66, LANDS PHOTO;
- **1989:** NSW 3652 177 LANDS PHOTO;
- **1998:** WILD 15/4 UAG-S NO. 13217 152,78; and
- **2010-2020:** Nearmap;

Table 4-2 Summary of Aerial Photograph Review

Aerial Photograph	Site land use	Surrounding Land Use
1930	The site appeared to be vacant land.	Rural residential with market garden and orchard activity.
1956	The site appeared relatively unchanged from the 1930 aerial photograph.	Rural residential with market garden and orchard activity.
1965	The site appeared relatively unchanged from the 1956 aerial	Rural residential

Aerial Photograph	Site land use	Surrounding Land Use
	photograph except that a road was constructed to the north of the site (Croatia Avenue).	with market garden and orchard activity.
1978	The west portion (the area currently identified as Lot 26 in DP228850) appeared relatively unchanged from the 1965 aerial photograph. The east portion of the site (the area currently identified as Lot 26 in DP228850) appeared to be redeveloped into rural residential property. A house appeared to be built on the north-eastern portion of site (as shown as area of former residential house presented on **Figure 4**). The land to the south of the creek appeared to be used for agricultural purpose.	Rural residential with market garden and orchard activity.
1989	The site appeared relatively unchanged from the 1978 aerial photograph.	Rural residential with market garden and orchard activity.
1998	The site appeared relatively unchanged from the 1989 aerial photograph except that a large shed was apparent along the east boundary of the site and to the southeast of the residential dwelling.	Rural residential with market garden and orchard activity.
2002	The site appeared relatively unchanged from the 1998 aerial photograph.	Rural residential with market garden and orchard activity.
15/07/2010	The site appeared relatively unchanged from the 2002 aerial photograph. The aerial photo is presented on **Figure 4.**	Rural residential with market garden and orchard activity.
14/05/2011	The site appeared relatively unchanged from the 2010 aerial photograph except that the large shed has been demolished and a concrete slab remains over the footprint of the shed. Debris from demolition can be seen near the former shed, located between the structures and the creek. The aerial photo is presented in **Figure 4.**	Rural residential with market garden and orchard activity.
22/04/2014	The site appeared relatively unchanged from the 2011 aerial photograph except that the former shed concrete slab is not visible and is covered by market garden. Building rubble is apparent near the former shed, located between the structures and the creek. An above-ground storage tank (AST) with open top, possible for irrigation water storage, is apparent to the south of the creek. The south-western portion of the site appeared to be used for agricultural purpose. The aerial photo is presented in **Figure 4.**	Rural residential with market garden and orchard activity.
12/12/2017	The site appeared relatively unchanged from the 2014 aerial photograph except that more building rubble is apparent near the former shed, located between the structures and the creek. Some debris is visible on the south side of the creek. The AST to the south of the creek appeared to have been demolished with debris left on the ground surface. The slab of	Rural residential with market garden and orchard activity.

Aerial Photograph	Site land use	Surrounding Land Use
	the former shed is once again visible with market garden having been removed. The aerial photo is presented in **Figure 4.**	
06/05/2018	The residential dwelling has been demolished and the ground surface is scarred with track marks indicating the levelling of the ground surface and materials in a southerly direction from the house and former shed demolitions. The AST debris located to the south of the creek is not visible. The aerial photo is presented in **Figure 4.**	Rural residential with market garden and orchard activity.
02/11/2018	The ground scarring observed in the previous aerial photograph (06/05/2018) is covered by vegetation. A car body (likely the abandoned car observed during the site walkover) is visible in the northern portion of the site. The aerial photo is presented in **Figure 4.**	Rural residential with market garden and orchard activity.

In summary, review of land titles records and historic aerial photography indicated that the site was vacant land until sometime between 1965 and 1978 when a residential dwelling and market garden or agricultural land use began to occupy the land. A Croatian community co-op group owned the land from 1962-1965. A large shed was constructed on the land between 1989 and 1998 and demolished sometime between July 2010 and May 2011. The residential dwelling was demolished sometime between 12 December 2017 and 6 May 2018. There is evidence that demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek.

4.3 Council Information

Property files archived by Liverpool Council are summarised in **Table 4-3**.

Table 4-3 Summary of Council Information

Date	Reference	Type	Details
18/08/2018	3733D	Site survey plan	The site survey plan indicated the previous structures on the site: ▪ Concrete driveway located in the north-eastern corner of the site; ▪ One single storey brick cottage located in the northern portion of the area currently identified as Lot 26 in DP228850; ▪ Concrete slab located to the south-east of the cottage ; and ▪ A metal shed to the north of the creek. The surrounding area of the metal shed was covered by trees.
06/07/2018	316729c	Licence	Description of work: demolition of existing brick cottage and temporary structure. Proposed date to commence work: 06/07/2018 Builder/principal contractor: Skywin Pty Ltd.
28/12/2017	2-1523-C03-01-	Waste Management Plan	With reference to the Plan generated by Gelder Architects (Job number: 1819, Drawing number: CDC 01 dated 27/11/2017), the waste management procedures are as follows :

Date	Reference	Type	Details
			▪ The truck area covered by roadbase rubbles was proposed to be located in the north-eastern portion of the site where previously covered by concrete as shown in the survey plan (reference number: 3733D dated 18/08/2018); ▪ Demolition materials are proposed to be stockpiled in an area to the north of the area previously occupied by the cottage ; and ▪ The metal shed was proposed to be removed while all surrounding trees were proposed to be protected. In Section 1 of the Waste Management Plan, the following waste was estimated to be generated during the demolition stage: ▪ General waste: 5m^3; ▪ Green waste: 9m^3; ▪ Brick: 25m^3; ▪ Concrete: 10m^3; and ▪ Timber: 10m^3 With reference to Section 1 of the Waste Management Plan, the brick and concrete were proposed to be disposed at Concrete recyclers located at 14 Thackeray Street, Camellia.

4.4 EPA Online Records

4.4.1 Record of Notices under Section 58 of CLM Act (1997)

An on-line search of the contaminated land public record of EPA Notices was conducted on 30 July 2020. The contaminated land public record is a searchable database of:

- Orders made under Part 3 of the *Contaminated Land Management Act 1997* (CLM Act);
- Notices available to the public under Section 58 of the CLM Act;
- Approved voluntary management proposals under the CLM Act that have not been fully carried out and where the approval of the Environment Protection Authority (EPA) has not been revoked;
- Site audit statements provided to the NSW EPA under section 53B of the CLM Act that relate to significantly contaminated land;
- Where practicable, copies of anything formerly required to be part of the public record; and
- Actions taken by NSW EPA under section 35 or 36 of the *Environmentally Hazardous Chemicals Act 1985* (EHC Act).

The search confirmed that the site known as 164-170 Croatia Ave, Edmondson Park NSW and surrounding lands within close proximity (within 250 m) were not subject to any regulatory notices relevant to the above legislation.

4.4.2 List of NSW contaminated sites notified to EPA

A search through the List of NSW Contaminated Sites notified to the EPA under Section 60 of the CLM Act 1997 was conducted on 30 July 2020. This list is maintained by NSW EPA and includes properties on which contamination has been identified. Not all notified land is deemed to be impacted significantly enough to warrant regulation by the NSW EPA. The site or localities in proximity (⩽250 m) to the site have not been notified as contaminated to the EPA.

4.4.3 POEO Public Register

A search of the Protection of the Environment Operations (POEO) Act public register was conducted on 30 July 2020. The public register contains records related to environmental protection licences, applications, notices, audits, pollution studies, and reduction programmes. The search for Edmondson Park, Preston, Glenfield, Bardia and Leppington did not identify any properties within close proximity (approx. 250 m) to the site on the POEO Public register.

4.4.4 Controlled Chemicals

The EPA uses chemical control orders (CCOs) as a primary legislative tool under the *Environmentally Hazardous Chemicals Act 1985* to manage chemicals of concern and limit their potential impact on the environment. CCOs provide the EPA a flexible mechanism for responding to emerging chemical issues. EI considered the potential for controlled chemicals to be part of the site history or currently on the site based on the site history and chemicals controlled by CCOs as outlined in **Table 4-4**.

Table 4-4 Controlled Chemicals

Chemicals of Concern (CCO or Emerging)	Decision
Were aluminium smelter wastes used or stored on site (CCO,1986)?	No
Do dioxin contaminated wastes (CCO,1986) have the potential to impact the site? [1]	No
Were organotin products (CCO,1989) used or stored on site ? [2]	No
Were polychlorinated biphenyls (PCBs) used or PCB wastes (CCO, 1997) stored on-site? [3]	No
Were scheduled chemical or wastes (CCO, 2004) used or stored? [4]	Potential pesticide use in market gardens.
Are other emerging chemicals suspected? [5]	No
If Yes to any questions, has site sampling suite been optimised to include specific sampling for other chemicals of concern in soil, air and water	Yes

Notes:
1 From burning of certain chemicals, smelting or chemical manufacturing or fire on or near the site.
2 From anti-fouling paints used or removed at boat & ship yards and marinas.
3 From older transformer oils & electrical capacitors.
4 Twenty-four mostly organochlorine pesticides and industrial by-products.
5 Other chemicals considered as emerging (e.g. 1,4 dioxane, associated with some CVOC).

4.4.5 Per or Poly-Fluoroalkyl Substances (PFAS)

EPA (2017) requires that PFAS is considered in assessing land contamination. A PFAS desktop survey is provided in **Table 4-5** based on the PFAS National Environmental Management Plan (NEMP 2020). It is important to note that PFAS are known to be present in Aqueous Film Forming Firefighting Foams (AFFF) and Alcohol-Type Concentrate (ATC). The historic use of AFFF is reported as being used by Fire & Rescue NSW between 1976 and 2007, while other agencies used AFFF during training exercises as late as 2010 (Source: Fire & Rescue NSW, Information Sheet, Firefighting Foam and PFAS, reference D16/82523).

Table 4-5 PFAS Decision Tree

Preliminary Screening	Probability of Occurrence [1]
Is the past or present site activity listed in the NEMP (2020)[2] as being an activity with risk of fire. If so list activity:	Low
Is the past or present off-site activity up-gradient or adjacent to the site listed in the NEMP (2020)[2] as being an activity with risk of fire. If so list activity:	Low
Did fire training involving the use of suppressants occur on-site between 1970 and 2010 ?	Low
Did fire training occur up-gradient of or adjacent to the site between 1970 and 2010 ? [3]	Low
Have "fuel" fires ever occurred on-site between 1970 and 2010 ? e.g. ignition of fuel (solvent, petrol, diesel, kero) tanks?	Low
Have PFAS been used in manufacturing or stored on-site ?[4]	Low
Could PFAS have been imported to the site in fill materials from a site with activity listed in NEMP (2020) ?	Low
Could PFAS-contaminated groundwater or run-off have migrated on to the site?	Low
Is the site or adjacent sites listed in the NSW EPA PFAS Investigation Program? [5]	No
If the probability is medium or high in any of the rows, does the site analytical suite need to be optimised to include preliminary sampling and testing for PFAS in soil (incl. ASLP testing) and waters? Provide rationale.	PFAS contamination not expected to be associated with the specific land uses of the site.

Notes:

1 Probability: L – low (all necessary documentation has been reviewed and there is no recorded instance or compelling evidence or rationale), M – medium/moderate (all necessary documentation has been reviewed and there is potential evidence of a recorded instance with compelling evidence or rationale); H – high (all necessary documentation has been reviewed and there is evidence of a recorded instance); risk, N/A – not applicable (or "-")]

2 Activities listed in Appendix B, Table B1 and Table B2 of the NEMP Version 2.0 (January 2020). Further information, refer to https://www.oecd.org/env/ehs/risk-management/PFC_FINAL-Web.pdf

3 The historic use of AFFF is reported as being used by Fire & Rescue NSW between 1976 and 2007, while other agencies used AFFF during training exercises as late as 2010 (Source: Fire & Rescue NSW, Information Sheet, Firefighting Foam and PFAS, reference D16/82523).

4 PFAS is used wide range of industrial processes and consumer products, including in the manufacture of non-stick cookware, specialised garments and textiles, Scotchguard™ and similar products (used to protect fabric, furniture, leather and carpets from oils and stains), metal plating and in some types of fire-fighting foam (https://www.nicnas.gov.au/chemical-information/factsheets/chemical-name/perfluorinated-chemicals-pfas)

5 https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program

5. Preliminary Conceptual Site Model

Based on the information and findings thus far described in this report, EI have developed a preliminary conceptual site model (CSM) outlining and assessing plausible pollutant linkages between potential contamination sources, migration pathways and receptors including contaminants of potential concern in accordance with Schedule B2 - Guideline on Site Characterisation (NEPC, 2013), and Consultants reporting on contaminated land (EPA, 2020).

5.1 Historic Land Use Summary

Based on the historical information available, the site was vacant land until sometime between 1965 and 1978 when a residential dwelling and market garden or agricultural land use began to occupy the land. A Croatian community co-op group owned the land from 1962-1965. A large shed was constructed on the land between 1989 and 1998 and demolished sometime between July 2010 and May 2011. The residential dwelling was demolished sometime between 12 December 2017 and 6 May 2018 under a demolition permit. There is evidence that demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek.

5.2 Potential Contamination Sources

On the basis of the historical findings potential contamination sources were identified as follows:

- Potential imported fill of unknown chemical quality;
- Demolition of former building structures (house, shed, water AST) that potentially contained hazardous building materials or agricultural chemicals followed by earthworks and potential burial of these building items on the land;
- Long-term application of pesticides within market gardens on-site; and,
- Potential surface water migration of contaminants from off-site sources, or run-off from site sources, and deposition in creek sediments.

5.3 Contaminants of Potential Concern

Based on the findings of the desktop study, the contaminants of potential concern (COPC) at the site are considered to be:

- Heavy metals (HM);
- Total recoverable hydrocarbons (TRH);
- Monocyclic aromatic hydrocarbon compounds benzene, toluene, ethyl-benzene and xylenes (BTEX);
- Polycyclic aromatic hydrocarbons (PAH);
- Organochlorine and organophosphorus pesticides (OCP/ OPP);
- Polychlorinated biphenyls (PCB); and
- Asbestos.

5.4 Potential Exposure Pathway

The identified potential contamination sources, transport mechanisms, exposure pathways, human and environmental receptors, and likelihood of complete exposure pathways considered relevant for this assessment are summarised in **Table 5-1**.

Table 5-1 Preliminary Conceptual Site Model

Potential Contamination Source	Potential Contaminants of Concern	Potential Transport Mechanism	Potential Exposure Pathway	Potential Receptor	Likelihood of Complete Exposure Pathway
Potential imported fill of unknown chemical quality	HM, TRH, BTEX, PAH, OCP, OPP, PCB and Asbestos.	Importation from off-site Physical erosion Wind mobilisation Leaching to water	Dermal contact Ingestion Inhalation Uptake (ecological receptors)	Current site users Workers during construction Future site users Future workers	Medium - There is the possibility that earthworks and filling material have been used for levelling purposes during the construction of the house and near the creek.
Demolition and on-site burial of former building structures and/or agricultural chemicals	HM, TRH, BTEX, PAH, OCP, OPP, PCB, asbestos, and agricultural nutrients.	Earthworks and burial Physical erosion Wind mobilisation Leaching to water			Medium - Given the age of the structures, potential lead-based paints and asbestos-containing building materials may be used in previous site buildings. Agricultural chemicals and nutrients may have been stored at the shed.
Long-term application of pesticides within market gardens on-site	HM, OCP, OPP, agricultural nutrients	Spray applications Physical erosion Wind mobilisation Leaching to water			Medium to high – Market gardens were active on the site from the late1960's/1970's.
Potential surface water migration of contaminants from off-site sources, or run-off from on-site sources, and deposition in creek sediments.	HM, TRH, BTEX, PAH, OCP, OPP, PCB, Asbestos, and agricultural nutrients.	Migration in surface water, settlement into creek sediments Site run-off and settlement into creek sediments			Low to medium – Surface run-off into the creek from market gardens is likely but potential exposure to sediments is lower.

5.5 Data Gaps

Based on the information reviewed and the CSM derived for the site, the following data gaps have been identified:

- Uncertainty in regards to potential importation of fill material of an unknown nature and quality to the site;
- Uncertainty in regards to the extent of potential building or infrastructure demolition levelling or burial on the site;
- Uncertainty in regards to the nature of market gardens and actual use or storage of agricultural chemicals on the site; and,
- Uncertainty in regards to the extent and nature of impacts from historical market garden/orchard activities to the site soils and creek sediments.

The above data gaps were considered for the intrusive soil sampling investigation. Investigation of creek sediments, surface water, or groundwater was not undertaken, however, may require assessment on the basis of findings of soil investigation.

6. SAMPLING AND ANALYSIS QUALITY PLAN

The Sampling and Analysis Quality Plan (SAQP) plays a crucial role in ensuring that the data collected as part of these, and ongoing, environmental works conducted at the site, are representative and provide a robust basis for assessment decisions. This SAQP includes the following:

- Data quality objectives, including a summary of the objectives of the DSI;
- Investigation methodology, including the media to be sampled, descriptions of sampling points and methods and details of the analytes to be measured;
- Analysis Methods;
- Sample handling, preservation and storage; and
- Analytical QA/QC.

6.1 Data Quality Objectives (DQO)

In accordance with the US EPA (2006) *Data Quality Assessment* and the EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, Data Quality Objectives (DQOs) were established by the EI team to determine the appropriate level of data quality needed for the specific data requirements of the project. The DQO process that was applied for this DSI is documented in **Table 6-1**.

Table 6-1 Summary of Project Data Quality Objectives

DQO Steps	Details	Comments (changes during investigation)
1. State the Problem Summarise the contamination problem that will require new environmental data, and identify the resources available to resolve the problem; develop a conceptual site model.	A Conceptual Site Model (CSM) and data gaps are presented in **Section 5**. The current CSM does not confirm if the identified potential complete exposure pathways actually exist and to what extent they may affect the current land use and proposed re-development. The CSM warrants an intrusive investigation.	
2. Identify the Goal of the Study (Identify the decisions) Identify the decisions that need to be made on the problem and the new environmental data required to make them.	The goal of the investigation is to determine if existing site conditions pose risk to human health or ecology for the current and proposed land use and re-development. Has the site been adequately characterised with sufficient and appropriate sampling coverage (vertical and lateral) to assess for the presence of potential contamination sources? Has the nature, source and extent of any onsite impacts (soil, groundwater, and/or vapour) been defined? What influence do site-specific, geologic conditions have on the fate and transport of any impacts that may be identified? Does the degree of impact coupled with the fate and transport of identified contaminants represent an unacceptable risk to identified human and/or environmental receptors on or offsite? Does the collected data provide sufficient information to allow the selection and design of an appropriate remedial strategy, assuming remedial action is necessary? If not, what are the remaining data gaps requiring closure?	

DQO Steps	Details	Comments (changes during investigation)
3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision and specify which inputs require new environmental measurements.	Inputs to the decision making process include: Proposed development and land use; Aerial photographs and historical information; Areas of environmental concern outlined in the CSM (refer to **Section 5**); National and NSW EPA guidelines endorsed under the NSW Contaminated Land Management Act 1997; Field observations, as well as soil samples obtained from locations, and to depths, deemed appropriate for detailed investigation purposes; In-field and laboratory analyses of selected soil samples for the COPC, to verify the presence and extent of on-site contamination.	
4. Define the Boundaries of the Study Specify the spatial and temporal aspects of the environmental media that the data must represent to support decision.	Lateral – the investigation will be conducted within the cadastral boundaries of the site (Appendix C and Figure A2). Vertical – Investigations will be advanced to the depth of natural soils or rock. Temporal – Results are valid on the day of data / sample collection and remain valid as long as no changes occur on site or contamination (if present) does not migrate on site or on to the site from off-site sources.	
5. Develop the Analytic Approach (Develop a decision rule) To define the parameter of interest, specify the action level, and integrate previous DQO outputs into a single statement that describes a logical basis for choosing from alternative actions.	The decision rules for the investigation were: If the concentrations of contaminants in the soil analytical data exceed the adopted criteria; then assess the need to further investigate the extent of impacts on site. Decision criteria for QA/QC measures are defined by the Data Quality Indicators (DQI) in Table 6-1. Sampling locations are to be governed by site accessibility, and where not accessible, the location is to be moved to the closets location.	

DQO Steps	Details	Comments (changes during investigation)
6. Specify Performance or Acceptance Criteria (Specify limits on decision errors) Specify the decision-maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainties in the data.	Specific limits for this project to be in accordance with the appropriate guidance made by the NSW EPA, standard procedures for field sampling and handling, and the adopted indicators of data quality. This should include the following points to quantify tolerable limits: A decision can be made based on a probability that 95% Upper Confidence Limits (UCLs) of the data will satisfy the given site criteria. Therefore a limit on the decision error will be 5% that a conclusive statement may be incorrect. A decision can be made based on the probability that a contamination hotspot of a certain circular diameter will be detected with 95% confidence using a selected density of systematic data points. The decision error will be limited to a probability of 5% that a contamination hotspot may not be detected.	
7. Develop the Detailed Plan for Obtaining Data (Optimise the design for obtaining data) Identify the most resource-effective sampling and analysis design for general data that are expected to satisfy the DQOs.	Based on the site area of 4.15 hectares, the NSW EPA Sampling Design Guidelines (EPA, 1995) notes a minimum number of fifty sampling points to identify a hotspot (of 33.5m diameter) with a 95% confidence level. This equates to a grid sample spacing of 28.5 m across the site. The grid is to be orientated over the site to optimise the sample locations with targets identified. Soil samples of fill and natural are to be collected at each borehole location. Further sampling is to be carried out where fill depths are deep and indicate different profile. Soil samples were selected for laboratory analyses are to be based on field observations (including visual and olfactory evidence, as well as soil vapour screening in headspace samples where odorous soils are identified). Representative soil samples collected from the site were analysed for the COPC described in **Section 5** to assist with characterising soil quality.	

6.2 Data Quality Indicators

To ensure that the investigation results were of an acceptable quality, the data set was assessed against the quality indicators (DQIs) outlined in . Further assessment of data quality is discussed in **Section 8**.

Table 6-2 Data Quality Indicators

QA/QC Measure	Data Quality Indicator
Precision – A quantitative measure of the variability (or reproducibility) of data	▪ Data precision would be assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision would be deemed acceptable if RPDs are found to be less than 30%. ▪ In cases where RPD values were considered unacceptable, the analytical results of primary and duplicate samples were both reviewed against the adopted assessment criteria. If the review indicates the variations in data between the primary and duplicate samples would result in a different conclusion (e.g. the higher concentration is failing the assessment criteria), the need for re-sampling / validation would be considered. ▪ Duplicate samples are to be collected at a rate of 5% (1 duplicate sample per 20 samples collected).
Accuracy – A quantitative measure of the closeness of reported data to the "true" value	Data accuracy would be assessed through the analysis of: ▪ Method blanks, which are analysed for the analytes targeted in the primary samples. ▪ Matrix spike and matrix spike duplicate sample sets. ▪ Laboratory control samples. ▪ Calibration of instruments against known standards. ▪ Variation in results reported by the primary and secondary laboratories for primary and duplicate samples.
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	To ensure the data produced by the laboratory is representative of conditions encountered in the field, the laboratory would carry out the following: ▪ Collect samples that are representative of the material being sampled and biased to any suspect locations based on physical evidence. ▪ Blank samples will be run in parallel with field samples to confirm there are no unacceptable instances of laboratory artefacts. ▪ Review of relative percentage differences (RPD) values for field and laboratory duplicates to provide an indication that the samples are generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities. ▪ The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods). ▪ Consistency between field vapour screening information and laboratory results.

QA/QC Measure	Data Quality Indicator
Completeness – A measure of the amount of useable data from a data collection activity	Analytical data sets acquired during the assessment will be evaluated as complete, upon confirmation that: ▪ Standard operating procedures for sampling protocols were adhered to. ▪ Copies of all COC documentation are presented, reviewed and found to be properly completed. ▪ It can therefore be considered whether the proportion of "useable data" generated in the data collection activities is sufficient for the purposes of the land use assessment.
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Given that a reported data set can comprise several data sets from separate sampling episodes, issues of comparability between data sets are reduced through adherence to standard operation procedure and regulator-endorsed or published guidelines and standards on each data gathering activity. Sampling was conducted by the same sampler where possible to enhance project continuity and minimise variability in sampling technique. Sampling under inclement weather conditions were avoided to minimise variability contributed by weather conditions. Samples to be collected using procedures meeting NSW EPA endorsed guidelines. In addition the data will be collected by experienced samplers and NATA-accredited laboratory methodologies will be employed in all laboratory testing programs.
Required Sampling Frequency	▪ Intra-laboratory Duplicate – 1 in 20 samples ▪ Inter-laboratory Duplicate – 1 in 20 samples ▪ Rinsate Blanks – 1 per batch where non-dedicated sampling equipment used ▪ Trip Blanks – 1 sample per batch ▪ Trip Spike – 1 sample per batch

7. ASSESSMENT METHODOLOGY

7.1 Sampling Rationale

With reference to the CSM described in **Section 5**, soil investigation works were planned in accordance with the following rationale:

- Sampling fill and natural soils from fifty test bore locations (BH1 to BH50), located in a systematic (grid-based) sampling pattern across the site such that each targeted area was investigated **(Figure A2).**

7.2 Investigation Constraints

The proposed grid pattern of 28.5m could not be maintained across the entire site due to the presence and alignment of the creek. No sampling occurred in the area within 5m of the creek.

7.3 Assessment Criteria

The assessment criteria adopted for this project are outlined in **Table 7-1** and are illustrated on **Figure A.3**. The adopted soil assessment criteria (SAC) were selected in accordance with the CLM Act from NSW EPA made or approved statutory guidelines, or, NSW EPA published or endorsed non-statutory guidelines with due consideration to the proposed development plans and associated exposure scenarios outlined in the NEPC 2013.

The assessment of soils has been undertaken in the framework of a Tier 1 risk assessment. A Tier 1 assessment is a risk-based analysis comparing site data with generic investigation levels and screening levels for various land uses to determine the need for further assessment or development of an appropriate management strategy. The application of investigation and screening levels is subject to a range of limitations.

Table 7-1 Adopted Soil Assessment Criteria

Protected Value	Adopted Guidelines	Criteria
Human Health	NEPC, 2013, Schedule B1, Section 6, Tables 1A(1) and 1A(3); For asbestos: Section 4, Table 7.	Soils within building footprints will be assessed against HIL-B and HSL-D for residential with minimal opportunities for soil access. Soils within hardstand roadways will be assessed against HIL-D and HSL-D for commercial/industrial. Soils within proposed landscape, open space areas will be assessed against HIL-C and HSL-C for developed open space such as park playgrounds, playing fields, secondary schools and footpaths. Soils within the proposed childcare centre area and its surrounding areas (a buffer ranging from 10-25 m based on land uses) will be assessed against HIL-A and HSL-A for residential with garden/ accessible soil.
Ecological	NEPC 2013, Schedule B1	Ecological Investigation Levels (EILs) have been derived in accordance with NEPM (2013), Schedule B1, EILs for Urban residential and public open spaces. Site specific EILs are derived for copper, nickel, chromium III and zinc, while generic EILs are applicable for arsenic, DDT and naphthalene. The EILs have been calculated, where necessary, using the Interactive (MS Excel) Calculation Spreadsheet found on the National Environment Protection Council website,http://nepc.gov.au/nepms/assessment-site-contamination/toolbox. The derived EIL criteria for copper, nickel, chromium III, and zinc are based on high traffic volume and aged contamination (>2 years) and the inputs shown in **Table 7-2**: **For selected petroleum hydrocarbons**: Ecological Screening Levels (ESL) for urban residential and public open space and protection of terrestrial ecosystems, fine soil texture were adopted.

Table 7-2 Inputs for Derivation of Ecological Investigation Levels

Soil	Input Parameters (pH, CEC, TOC, % Clay)	Calculated EIL - Urban residential (mg/kg)			
		Cu	Cr III	Ni	Zn
Silty CLAY	pH: ranged from 4.9 to 6.3; average 5.7 CEC: ranged from 11 to 14; average 13 TOC: estimated 1 % Clay Range: estimated 15	180	470	200	440

8. RESULTS

8.1 Soil Investigation

The soil investigation works conducted at the site are summarised in **Table 8-1**. Test bore locations are illustrated in **Figure A2**.

Table 8-1 Summary of Soil Investigation Methodology

Activity/Item	Details
Fieldwork	Conducted on 23 July 2020. Fifty boreholes drilled (BH1 to BH50) across the site, with samples taken in both the fill and natural soil layers, where permissible.
Drilling Method and Investigation Depth	Test bores were drilled using a ute-mounted drill rig, fitted with solid flight augers. The maximum depths of drilling ranged from 0.5 to 1.8 metres Below Ground Level (mBGL).
Soil Logging	Recovered soils from the boreholes were classified in the field with respect to lithological characteristics and evaluated on a qualitative basis for odour and visual signs of contamination. Soil classifications and descriptions were based on Australian Standard (AS) 4482.1-2005. Bore logs are presented in **Appendix I**.
Decontamination Procedures	Soil samples were collected using grab/dry methods and placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars using dedicated nitrile gloves. Blind field duplicates were separated from the primary samples and placed into glass jars. A small amount of duplicate was collected from samples and placed into a zip-lock bag for Photo-ionisation Detector (PID) screening and asbestos analysis.
Sample Preservation	Samples were stored in chilled (ice brick-filled) chests, whilst on-site and in transit to the laboratory, which was performed under Chain-of-Custody (COC) conditions. Copies of the completed COC documentation (used to track sample movements) and laboratory Sample Receipt Advice (SRA) forms are provided in **Appendix K.**
Management of Soil Cuttings	Soil cuttings were used as backfill for completed boreholes.

Activity/Item	Details
Quality Control & Laboratory Analysis	A number of soil samples were submitted for analysis of previously-identified COPC by SGS Laboratories (SGS). QA/QC testing comprised intra-laboratory duplicates ('field duplicates') tested blind by SGS and an inter-laboratory field duplicate tested blind by Envirolab Services (Envirolab). All samples were transported under strict Chain-of-Custody (COC) conditions and COC certificates and laboratory sample receipt documentation were provided to EI for confirmation purposes, as discussed in **Section 7**.
Soil Vapour Screening	PID screening for potential VOCs within soil samples was completed during intrusive investigations. No hydrocarbon odours were reported during the investigation. Individual screening of samples ranged from 0.1– 0.5 ppm.

8.2 Soil Investigation Results

8.2.1 Subsurface Conditions

The general site geology encountered during the drilling of the soil investigation boreholes may be described as a layer of topsoil/fill, overlying residual clays. The geological information obtained during the investigation is summarised in **Table 8-2** and borehole logs from these works are presented in **Appendix I**.

Table 8-2 Generalised Subsurface Profile

Layer	Description	Minimum & maximum depth of layer (mBGL)
Fill/Topsoil	Clayey SILT, dark grey, with root fibres, no odour; Silty CLAY; Silty CLAY; medium to high plasticity, brown, with fine to medium and sub-angular to angular gravels, with root fibres, no odour; Gravelly SILT; dark brown, with fine to coarse and sub-angular to angular gravels, no odour; and Silty SAND; fine grained, brown to orange, with rootlets, no odour.	0.0 – 1.30
Natural	Silty CLAY; medium to high plasticity, pale brown to orange, no odour. SILT; pale brown, with rootlets, no odour.	0. 0 – 1.80+
Groundwater	Groundwater was not observed in any of the boreholes.	

Note 1 **+** Denotes the material was detected at the termination depth.

8.2.2 Field Observations

Soil samples were obtained from bores at various depths ranging between 0.1 mBGL to 1.5 mBGL. All examined soil samples were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, asbestos fragments, ash, and charcoal) and the following observations were noted:

- Some sub-angular to angular gravels were reported within fill materials;
- No olfactory odours were observed during the investigation;
- Evidence of ash or slag materials was not observed in any boreholes; and
- Photo-ionisation Detector (PID) analysis of soil samples ranged between 0.1 – 0.5 ppm.

The presence of demolition debris associated with former buildings was not observed in 13 boreholes drilled in the targeted area.

8.3 Laboratory Analytical Results

A summary of laboratory results showing test sample quantities, minimum/maximum analyte concentrations and samples found to exceed the SAC, is presented in **Table 8-3**. More detailed tabulations of results showing the tested concentrations for individual samples alongside the adopted SAC are presented in **Appendix B, Table B.1**.

Completed documentation used to track soil sample movements and laboratory receipt (i.e. COC and SRA forms) are copied in **Appendix K** and all laboratory analytical reports for tested soil samples are presented in **Appendix L**.

Table 8-3 Summary of Soil Analytical Results

No. of primary samples	Analyte	Min. Conc. (mg/kg)	Max. Conc. (mg/kg)	Sample(s) exceeding adopted human health SAC	Sample(s) exceeding adopted Ecological SAC [1]
Metals (Total)					
59	Arsenic	3	60	None	None
59	Cadmium	<0.3	0.7	None	None
59	Chromium	5.2	22	None	None
59	Copper	3	40	None	None
59	Lead	7	370	None	None
59	Mercury	<0.05	0.06	None	None
59	Nickel	1.7	20	None	None
59	Zinc	7.1	170	None	None
PAHs					
59	Carcinogenic PAHs (as B(a)P TEQ)	<0.2	0.2	None	N/A
59	Benzo(a)pyrene	<0.1	0.2	None	None
59	Total PAHs	<0.8	<0.8	None	N/A
59	Naphthalene	<0.1	<0.1	None	None
BTEX				None	None
59	Benzene	<0.1	<0.1	None	None
59	Toluene	<0.1	<0.1	None	None
59	Ethylbenzene	<0.1	<0.1	None	None

No. of primary samples	Analyte	Min. Conc. (mg/kg)	Max. Conc. (mg/kg)	Sample(s) exceeding adopted human health SAC	Sample(s) exceeding adopted Ecological SAC [1]
59	Total xylenes	<0.3	<0.3	None	None
TRHs					
59	F1	<25	<25	None	None
59	F2	<25	<25	None	None
59	F3	<90	<90	None	None
59	F4	<120	<120	None	None
Pesticides					
40	Total OCPs	<1	<1	None	N/A
40	Total OPPs	<1.7	<1.7	None	N/A
PCBs					
40	Total PCBs	<1	<1	None	N/A
Asbestos					
40	Asbestos	Not detected	Not detected	none	N/A

Note 1 N/A: 'Not Applicable' – no EILs were available for said analyte

Metals

All heavy metal concentrations were below the corresponding human health and ecological criteria. One soil sample (BH15_1.5-1.6) reported a lead concentration of 370 mg/kg which was orders of magnitude greater than the remaining samples. At this location, historic aerial photographs indicated the presence of rubble or debris.

TRHs

All TRH concentrations were below corresponding human health and ecological criteria.

BTEX

BTEX compounds concentrations were below corresponding human health and ecological criteria.

PAHs

PAH concentrations were below corresponding human health and ecological criteria.

OCPs, OPPs and PCBs

All soil concentrations in relation to OCPs, OPPs, and PCBs were below the adopted human health and ecological criteria.

Asbestos

No asbestos was detected in any of the tested fill samples.

8.4 Groundwater Investigation Results

Three monitoring wells were drilled on the southern side of the creek and in the south-western corner of the site as part of the geotechnical investigation (EI ref. E24744.G03_Rev 1).

Following completion of augering, groundwater monitoring wells were installed in BH3M, BH4M and BH5M. BH3M was bailed dry, and the groundwater levels were then measured within the monitoring wells as per **Table 8-4** below on the same day and one month following installation. We note that the groundwater levels may not have become evident or stabilised in the augered boreholes within the limited observation period.

Table 8-4 Summary of Groundwater Investigation Results

Borehole ID	Measurement Date	Depth to Groundwater (m BEGL)	Groundwater RL (m AHD)
BH3M	06/08/2020 (on the same day as installation)	4.25	50.75
	15/09/2020	5.50	49.50
BH4M	15/09/2020	Artesian Flow	
BH5M	15/09/2020	Artesian Flow	

Artesian flow was observed within the wells BH4M and BH5M, with steady water flow within BH4M and a stable, above surface groundwater level within the stick up section of the monitoring well BH5M. The creek adjacent to BH4M and BH5M was observed to be a perennial stream with stagnant and relatively shallow ponded water.

9. DATA QUALITY ASSESSMENT

The assessment of data quality is defined as the scientific and statistical evaluation of environmental data to determine if they meet the objectives for the project (USEPA 2006). For this investigation, the data quality assessment included evaluation of the sampling procedures and the accuracy and precision of the reported laboratory results (based on external (field) and internal QC samples). The findings are discussed in detail in **Appendix M**.

The QC measures generated from the field sampling and laboratory analytical program are summarised in .

Table 9-1 Quality Control Process

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
Preliminaries	Data Quality Objectives established	Yes	See **Section 6**
Field work	Suitable documentation of fieldwork observations including borehole logs, field notes.	Yes	See **Section 2.5** and **Appendix I**
Sampling Plan	Use of relevant and appropriate sampling plan (density, type, and location)	Yes	See sample rationale
	All media sampled and duplicates collected	Yes	See **Table B.1** and **Appendix M**
	Use of approved and appropriate sampling methods (soil, groundwater, soil vapour)	Yes	See **Section 8**
	Selection of soil samples according to field PID readings (where VOCs are present)	Yes	See **Section 8**
	Preservation and storage of samples upon collection and during transport to the laboratory	Yes	See **Section 8**
	Appropriate Rinsate, Field and Trip Blanks taken	Yes	See **Appendix M**
	Completed field and analytical laboratory sample COC procedures and documentation	Yes	See **Appendix I** and **Appendix K**
Laboratory	Sample holding times within acceptable limits	Part	See **Appendix I** and **Appendix K**
	Use of appropriate analytical procedures and NATA-accredited laboratories	Yes	See **Appendix I** and **Appendix K**
	LOR/PQL low enough to meet adopted criteria	Yes	See **Appendix I** and **Appendix K**
	Laboratory blanks	Yes	See **Appendix I** and **Appendix K**
	Laboratory duplicates	Yes	See **Appendix I** and **Appendix K**
	Matrix spike/matrix spike duplicates (MS/MSDs)	Part	See **Appendix I** and **Appendix K**

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
	Surrogates (or System Monitoring Compounds)	Yes	See **Appendix I** and **Appendix K**
	Analytical results for replicated samples, including field and laboratory duplicates and inter-laboratory duplicates, expressed as Relative Percentage Difference (RPD)	Yes	See **Appendix I** and **Appendix K**
	Checking for the occurrence of apparently unusual or anomalous results, e.g. laboratory results that appear to be inconsistent with field observations or measurements	Yes	See **Appendix I** and **Appendix K**
Reporting	Report reviewed by senior staff to assess project meets desired quality, EPA guidelines and project outcomes.	Yes	See Report Distribution page at front of report.

9.1 Quality Overview

On the basis of the completed assessment, the overall quality of the analytical data from this investigation was considered to be of an acceptable standard for interpretive use and preparation of an updated CSM.

10. SITE CHARACTERISATION

10.1 Soil Characterisation

With reference to **Tables 10-2**, **10-3** and **Tables B.1**, soils on the site at the sampling locations were found to be below the adopted human health and ecological SAC. The number and distribution of soil samples was considered suitable to assess the soil conditions, however, the use of boreholes at the demolition levelling target in the northeast part of the site was considered insufficient to observe the nature of all fill soils in this area, and the presence or absence of potential building hazardous materials in this area is not concluded.

With reference to **Table B.1**, lead contamination was identified in the natural soil of borehole BH15_1.5-1.6(370mg/kg). Although it is below the adopted human health SAC, it is evidence of man-made impact above the natural site background levels. Although sample BH15_1.5-1.6 exceeded the CT1 Criteria for lead, the TCLP concentration below the TCLP1 criteria, as such, the lead contaminated soil in the vicinity of BH15 can be classified as General Solid Waste for off-site disposal purposes.

10.2 Groundwater and Creek Environment Characterisation

Although groundwater analysis was not carried out as part of the geotechnical investigation (EI ref. E24744.G03_Rev 1), EI consider that potential risks to groundwater from the site are low given the following factors:

- Subsurface conditions consisted of clay which has low permeability and thus minimises vertical migration into groundwater;
- The concentrations of nearly all selected soil samples were below the adopted human health criteria and ecological criteria indicating a lack of a contributing source for leaching.

In return, the groundwater underlying the site is inferred not to pose potential risk to the site on the basis that the surrounding land uses were predominantly rural residential in nature.

A full study of the creek sediments, infrastructure filling, and surface water were not undertaken. Given the site topography and former land uses, the creek represents a potential deposition zone for land run-off with contaminant loading potentially collecting in the sediments.

With reference to the proposed development plans (Ref. Tony Owen Partners, Project no. 1098, Dated, June 2020), the existing Maxwell's Creek is to be realigned as shown in **Figure 2.** Prior to any burial, dredging or use of sediments within the creek, an assessment of these sediments should be undertaken. Fill placement around creek infrastructure, such as the concrete culvert, should also be assessed in conjunction with the removal and realignment works.

10.1 Review of Conceptual Site Model

On the basis of investigation findings, the CSM discussed in **Section 5** is revised below in **Table 10-1**.

Table 10-1 Revised Conceptual Site Model

Potential Contamination Source	Potential Contaminants of Concern	Potential Transport Mechanism	Potential Exposure Pathway	Potential Receptor	Likelihood of Complete Exposure Pathway
Potential imported fill of unknown chemical quality	HM, TRH, BTEX, PAH, OCP, OPP, PCB and Asbestos.	Importation from off-site Physical erosion Wind mobilisation Leaching to water	Dermal contact Ingestion Inhalation Uptake (ecological receptors)	Current site users Workers during construction Future site users Future workers	Low – Fill was encountered across the site but found to be within human health and ecological criteria. Fill along and within the creek was not assessed (see below). Evidence of widespread imported fill was not evident.
Demolition and on-site burial of former building structures and/or agricultural chemicals	HM, TRH, BTEX, PAH, OCP, OPP, PCB, asbestos, and agricultural nutrients.	Earthworks and burial Physical erosion Wind mobilisation Leaching to water			Medium – Aerial photographs indicated medium to high potential for levelling of building rubble associated with the former house and shed in the northeast part of the site and along the creek (water tank). Field evidence of extensive buried building rubble was not encountered, however, may become apparent with test pits by excavator/backhoe in this area. Given the age of the structures, potential lead-based paints and asbestos-containing building materials may be used in previous site buildings. Agricultural chemicals and nutrients may have been stored at the shed.
Long-term application of pesticides within market gardens on-site	HM, OCP, OPP, agricultural nutrients	Spray applications Physical erosion Wind mobilisation Leaching to water			Low to Very low except in creek sediments – Market gardens were active on the site from the late1960's/1970's to the 2010's, however, evidence of OCP and OPP were not encountered in soil samples analysed. The lack of OCP/OPP indicates that these may not have been widely used.
Creek sediments - Potential surface water migration of contaminants from off-site sources, or run-off from on-site sources, and deposition in creek	HM, TRH, BTEX, PAH, OCP, OPP, PCB, Asbestos, and agricultural nutrients.	Migration in surface water, settlement into creek sediments Site run-off and			Medium – As the creek is a topographical low point on the site, surface waters and sediments are likely to be repositories of site contaminants, if any.

Potential Contamination Source	Potential Contaminants of Concern	Potential Transport Mechanism	Potential Exposure Pathway	Potential Receptor	Likelihood of Complete Exposure Pathway
sediments.		settlement into creek sediments			

11. Conclusions

The property located at 164-170 Croatia Ave, Edmondson Park NSW was the subject of a Detailed Site Investigation. The investigation was prepared to accompany as part of the Development Application to Liverpool City Council.

Based on proposed development plans, the site redevelopment would involve the site redevelopment will include the construction of multiple high density residential apartment buildings overlying two level basement carpark, public open spaces and roadways predominantly in the central and south western portion of the site as shown in **Appendix C**. Existing creek re-alignment and revegetation are planned in the northern part of the site.

Based on the findings of this assessment, it is concluded that:

- The site was vacant land covered by tall grasses (up to 1.3m height) and scattered mature trees with a creek located in the central portion of the site. Trees were identified on either side of the creek. Standing water was observed in the creek and a concrete culvert was observed in the north-western portion of the site.
- No building structures were observed on the site in July 2020. An abandoned car (**Photograph 4**) was identified in the north portion of the site, as shown in **Figure 2**. Some vehicle related wastes (tyres, metal and glass) were also identified around the abandoned car (**Photograph 5**). Waste tyres are considered Special Waste in accordance with the NSW EPA Waste Classification Guidelines (EPA 2014).
- The historical aerial photograph dated 6 May 2018, indicated that some demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek, as shown on **Figure 4.** However, no rubble stockpile or demolition waste was identified during the time of the site inspection; also no building rubbles and demolition wastes were identified from any of the boreholes in that area.
- Steep topographical change was observed in the south portion of the site (**Photograph 9**) where the ground surface in the south-western portion of the site is higher than the ground surface in the south-eastern portion of the site. The survey plan (**Appendix C**), also confirms that the ground surface elevation changes from approximate 47.02 mAHD (south-eastern corner of the site) to approximate 56.25 mAHD (the south-western corner of the site).
- Review of land titles records and historic aerial photography indicated that the site was vacant land until sometime between 1965 and 1978 when a residential dwelling and market garden or agricultural land use began to occupy the land. A Croatian community co-op group owned the land from 1962-1965. A large shed was constructed on the land between 1989 and 1998 and demolished sometime between July 2010 and May 2011. The residential dwelling was demolished sometime between 12 December 2017 and 6 May 2018 under a demolition permit. There is evidence that some demolition debris from the residential dwelling and shed may have been levelled on the site in the northeast area of the site between the structures and the creek.
- The site was free of statutory notices issued by the EPA, and was not recorded on the list of NSW Contaminated Sites Notified to the EPA/POEO public register;
- Soil sampling and analysis was conducted at fifty test bore locations:

  - The sub-surface layers comprised a layer of topsoil and/or fill overlying natural clays;
  - An assessment against the NEPM (2013) HIL-A/HSL- A & B investigation levels did not indicate soil samples (composite or individual) exceeding adopted criteria; and
  - An assessment against the NEPM (2013) and site specific EIL/ESL investigation levels did not indicate soil samples (composite or individual) exceeding adopted criteria.
- Asbestos was not identified during intrusive sampling.
- Groundwater was generally found below depths of 4 to 5 mBEGL. Artesian flow was observed within the wells BH4M and BH5M, with steady water flow within BH4M and a stable, above surface groundwater level within the stick up section of the monitoring well BH5M. The creek adjacent to BH4M and BH5M was observed to be a perennial stream with stagnant and relatively shallow ponded water.
- A full study of the creek sediments, infrastructure filling, and surface water were not undertaken. Given the site topography and former land uses, the creek represents a potential deposition zone for land run-off with contaminant loading potentially collecting in the sediments.
- With reference to the proposed development plans (Ref. Tony Owen Partners, Project no. 1098, Dated, June 2020), the existing Maxwell's Creek is to be realigned as shown in **Figure 2.** Prior to any burial, dredging or use of sediments within the creek, an assessment of these sediments should be undertaken. Fill placement around creek infrastructure, such as the concrete culvert, should also be assessed in conjunction with the removal and realignment works.

Taking into account the above considerations and subject to the statement of limitation (**Section 13**), EI considers that the site can be made suitable for the proposed residential land use.

12. Recommendations

Based on the findings presented above, EI provide the following recommendations:

- A targeted data gap investigation focussing on the north-eastern portion of the site (i.e. the levelling of former house and shed were identified in the northeast part of the site) and along the creek (i.e. location of stormwater tank demolition and filling at a culvert) should be conducted to determine the impact of potential historical demolition and earthmoving activities.
- As noted in the geotechnical investigation, additional groundwater monitoring wells particularly along the creek to the north should be constructed for long term groundwater monitoring, seepage modelling, and ongoing monitoring of groundwater inflows into the bulk excavation is required.
- Prior to any burial, dredging or use of sediments within the creek, an assessment of these sediments and waters should be undertaken. Fill placement around creek infrastructure, such as the concrete culvert, should also be assessed at the time of removal. Existing and new wells noted above may also be suitable for environmental assessment associated with realignment of the creek, as needed.
- Waste materials being removed from site (including virgin excavated natural materials or VENM) as part of site development are to be classified for off-site disposal in accordance the EPA (2014) *Waste Classification Guidelines.*
- Any material being imported to the site (i.e. for landscaping purposes) should be assessed for potential contamination in accordance with NSW EPA guidelines as being suitable for the intended use or be classified as VENM.

13. Statement of Limitations

This report has been prepared for the exclusive use of Super Star Holding Group Pty Ltd, who is the only intended beneficiary of EI's work. The scope of the investigations carried out for the purpose of this report is limited to those agreed with Super Star Holding Group Pty Ltd on 12 June 2020.

No other party should rely on the document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

EI has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia as at the date of this document. No other warranty, expressed or implied, is made or intended. Each section of this report must be read in conjunction with the whole of this report, including its appendices and attachments.

The conclusions presented in this report are based on a limited assessment of historical site use and current use of the site. Due to the preliminary nature of this assessment, findings are not based on actual samples collected or testing conducted. EI has relied upon information provided by the Client and other third parties to prepare this document, some of which could not be verified by EI due to the anecdotal or historical nature of the information.

EI's professional opinions are reasonable and based on its professional judgment, experience and training.

EI's professional opinions contained in this document are subject to modification if additional information is obtained through the data searches that have been initiated with government authorities, but for which the requested information is still pending.

Technical opinions may also be amended in the light of further investigation, observations, or validation testing and analysis during remedial activities. In some cases, further testing and analysis may be required, which may result in a further report with different conclusions.

References

Ahern C R, Stone, Y, and Blunden B (1998) *Acid Sulfate Soils Assessment Guidelines*, part of the ASS Manual, Acid Sulfate Soil Management Advisory Committee (ASSMAC), Wollongbar, NSW, Australia, 28 August 1998, 59 p.

Australian Standard (2005) Table E1 – *Minimum sampling points required for site characterisation*, in Guide to the investigation and sampling of sites with potentially contaminated soil – Part 1: Non-volatile and semi-volatile compounds, Standards Australia, AS 4482.1-2005, p45.

DEC (2006) Soil Investigation Levels for Urban Development Sites in NSW, in Guidelines for the NSW Site Auditor Scheme, 2nd Edn., NSW Dept. of Environment and Conservation, DEC 2006/121, April 2006;

DMR (1991) Penrith 1:100,000 Geological Series Sheet 9030, *Geological Survey of New South Wales*, Department of Mineral Resources;

EPA (2014) Waste Classification Guidelines, NSW EPA, November 2014;

EPA (2017) Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme, NSW EPA, October 2017;

Hazelton Bannerman and Tille (1989) Soil Landscapes of the Penrith 1:100 000 sheet, Soil Conservation Service of NSW, Sydney, 1989;

Liverpool Local Environmental Plan 2008;

NEPM (2013) Schedule B1 Guideline on Investigation Levels for Soil and Groundwater, Schedule B2 Guideline on Site Characterisation and Schedule B4 Guideline on site-specific health risk assessments, National Environmental Protection (Assessment of Site Contamination) Measure 1999, National Environmental Protection Council, December 1999, Amendment 2013;

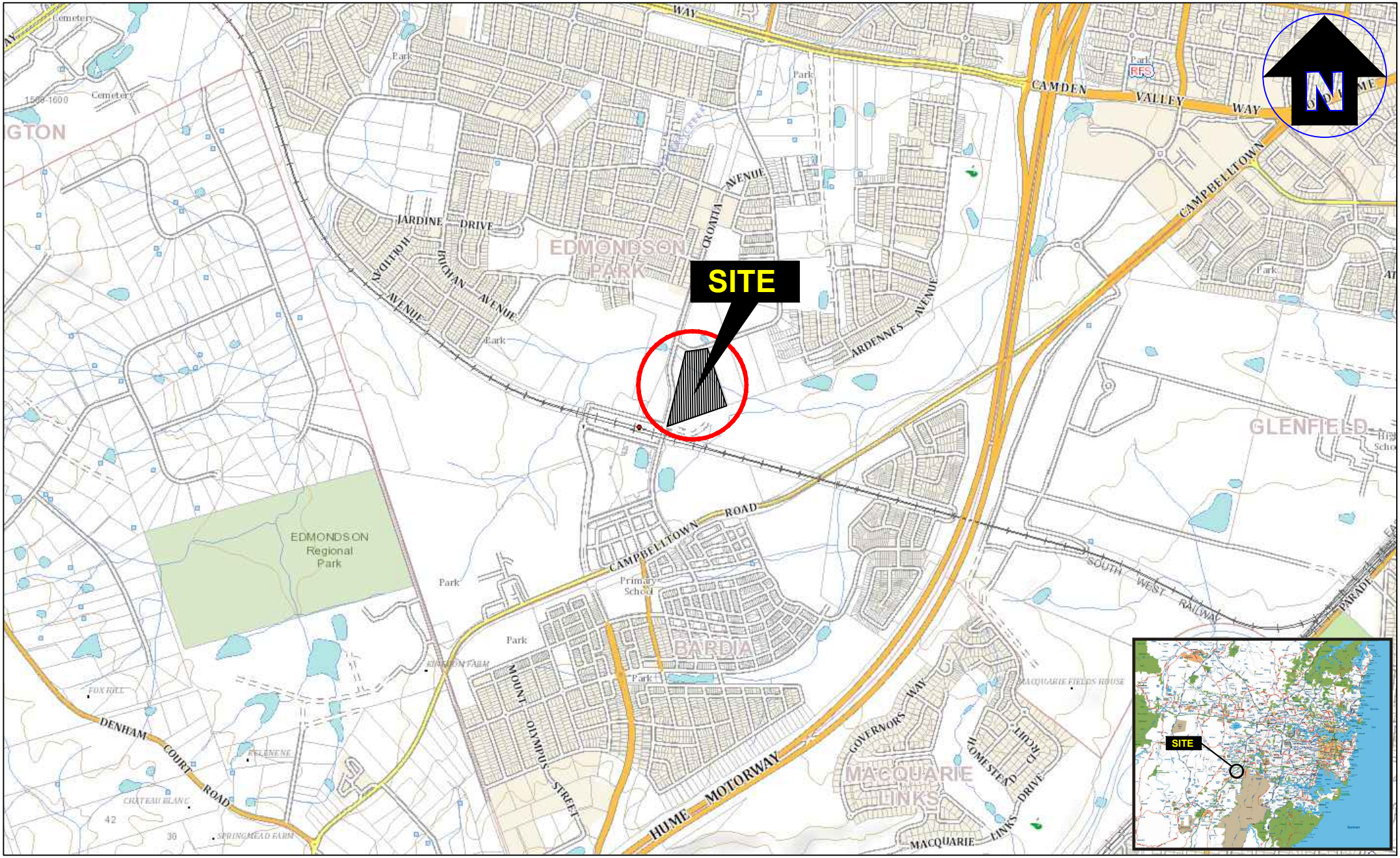
OEH (2011) Guidelines for Consultants Reporting on Contaminated Sites, NSW Office of Environment and Heritage (OEH), OEH 2011/0650, 23 p; and

SEPP 55 (1997) State Environment Protection Policy 55, Remediation of Land under the Environmental Planning and Assessment Act 1997.

Abbreviations

ACM	Asbestos-containing materials
ASS	Acid sulfate soils
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
COPC	Contaminants of Potential Concern
DA	Development Application
DEC	Department of Environment and Conservation, NSW (see OEH)
DECC	Department of Environment and Climate Change, NSW (see OEH)
DP	Deposited Plan
EI	EI Australia
EPA	Environment Protection Authority
GME	Groundwater Monitoring Event
km	Kilometres
m	Metres
mAHD	Metres Australian Height Datum
mBGL	Metres Below Ground Level
NEPC	National Environmental Protection Council
NSW	New South Wales
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage, NSW (formerly DEC, DECC, DECCW)
OPP	Organophosphorus Pesticides
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PSI	Preliminary Site Investigation
TRH	Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)
UPSS	Underground Petroleum Storage System
UST	Underground Storage Tank

Appendix A - Figures



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Date:	02-07-20
Scale:	Not To Scale

Super Star Holding Group Pty Ltd

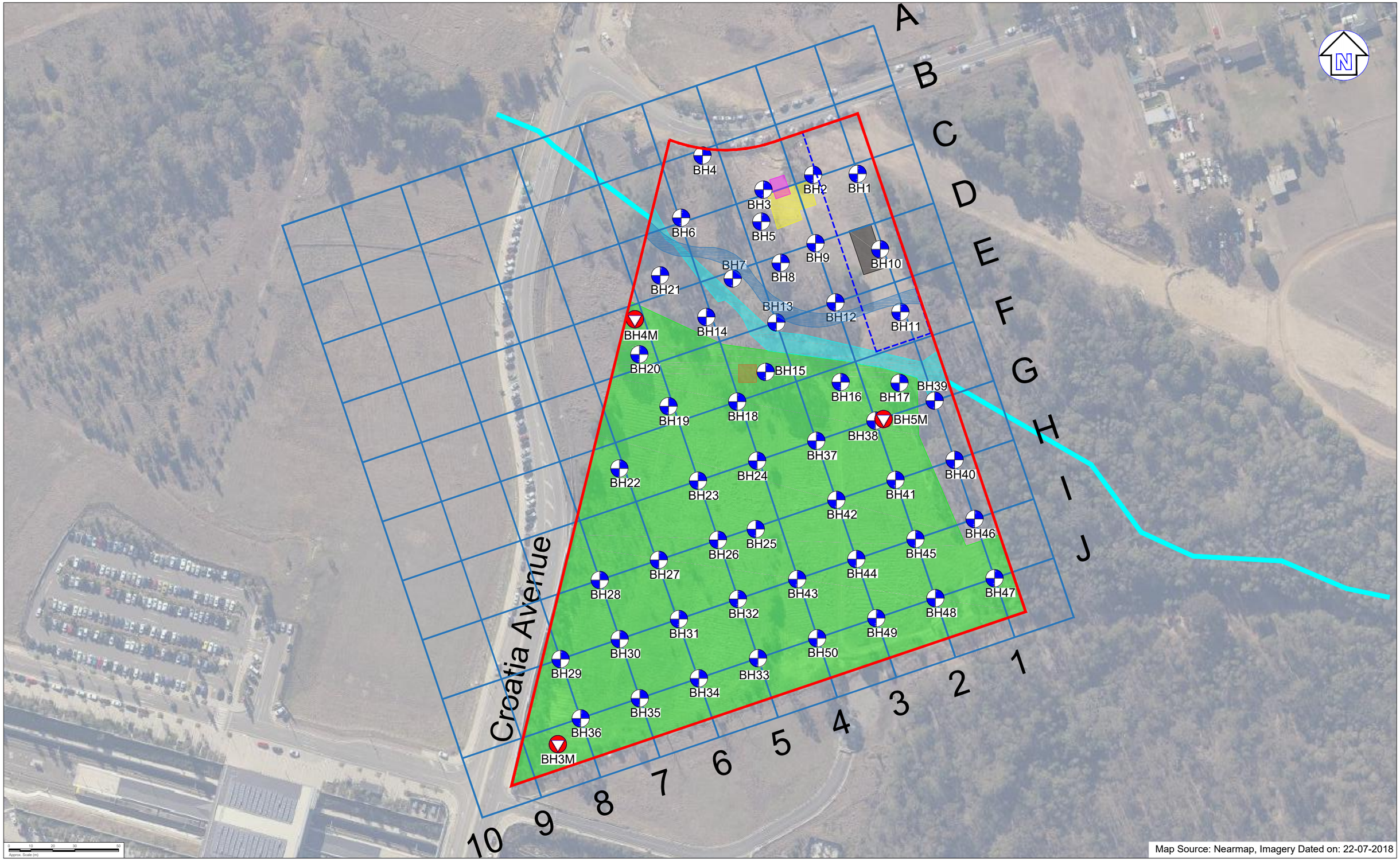
Detailed Site Investigation

164-170 Croatia Ave, Edmondson Park NSW

Site Locality Plan

Figure: 1

Project: E24744 E02_Rev0



LEGEND (All locations are approximate)

- Site boundary
- Existing creek
- Proposed creek realigment
- Area of former market garden
- Area of former residential house (refer to Figure 4 for detail)
- Area of former shed (refer to Figure 4 for detail)
- Area previously covered by demolition waste (refer to Figure 4 for detail)
- Groundwater monitoring well location
- Borehole location
- Location of the abandoned car and its related waste
- Area previously covered by debris (refer to Figure 4 for detail)

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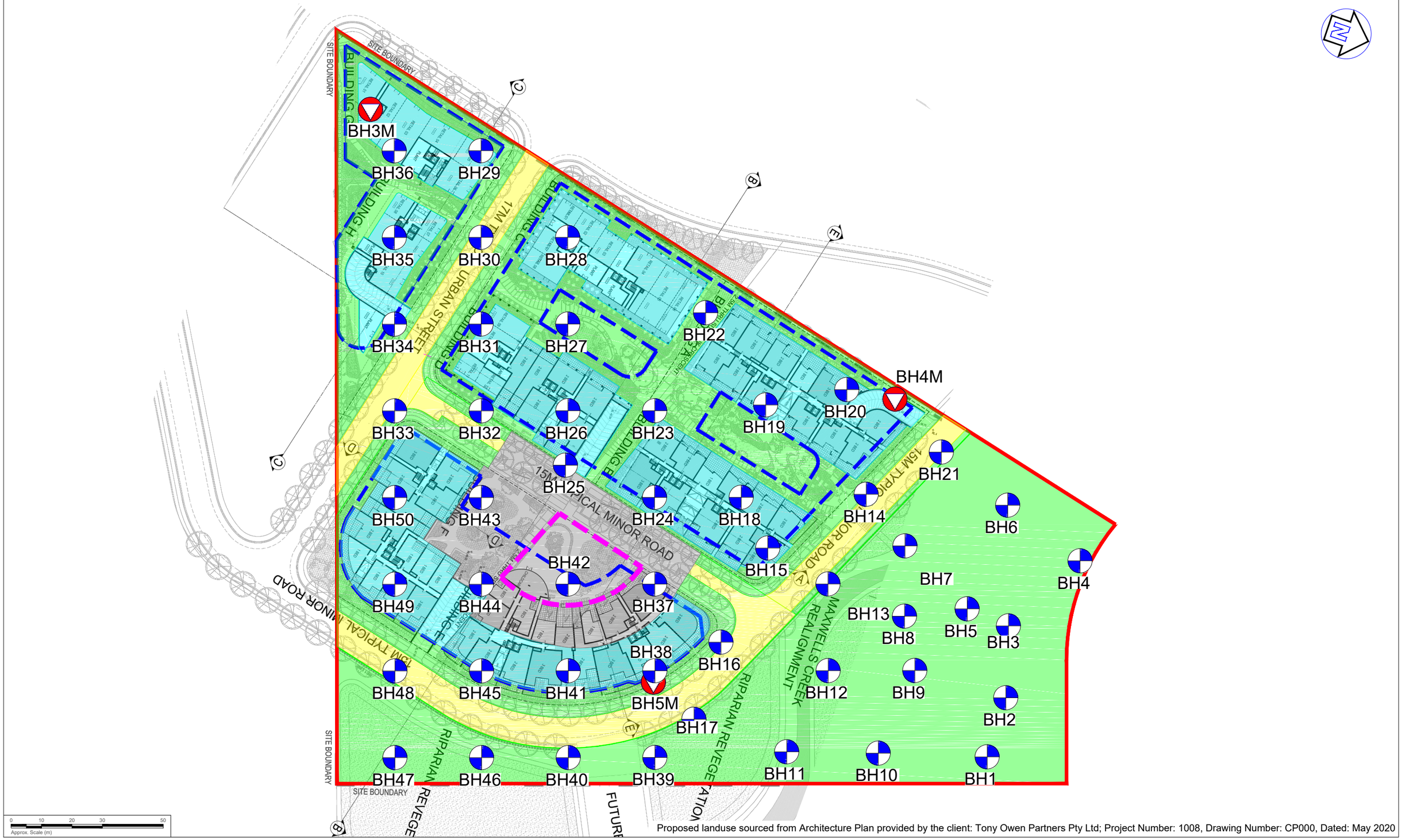
Detailed Site Investigation
164-170 Croatia Ave, Edmondson Park NSW

Sampling Location Plan

Figure: 2

Project: E24744.E02_Rev0



Proposed landuse sourced from Architecture Plan provided by the client: Tony Owen Partners Pty Ltd; Project Number: 1008, Drawing Number: CP000, Dated: May 2020

LEGEND (All locations are approximate)

- Site boundary
- Borehole location
- Groundwater monitoring well location
- Area assessed against against HIL-B,HSL D/Proposed building area
- Area assessed against against HIL-C,HSL C/Proposed landscape area
- Area assessed against against HIL-D,HSL D/Proposed road area
- Area assessed against against HIL-A,HSL A&B/Proposed Childcare area and its surrounding area
- Estimated Area of the proposed childcare center

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Detailed Site Investigation
164-170 Croatia Ave, Edmondson Park NSW
Adopted Human Health Soil Assessment Criteria

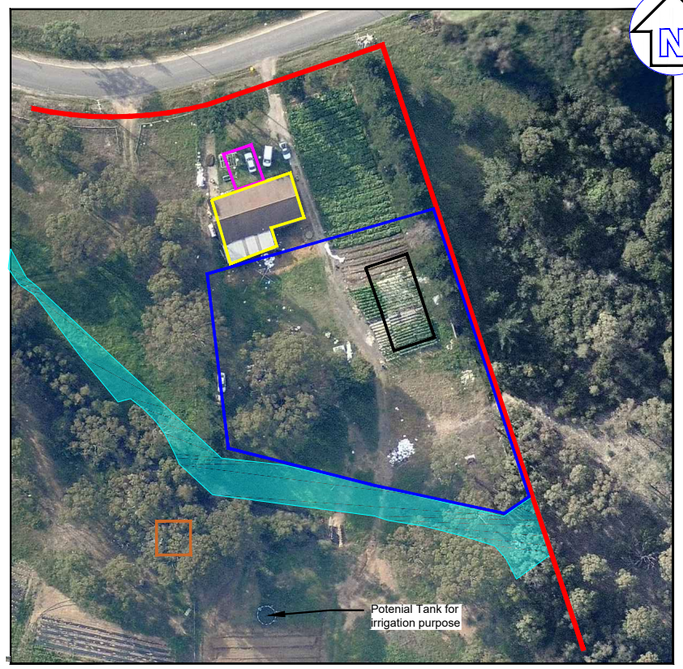
Figure: 3

Project: E24744.E02_Rev0

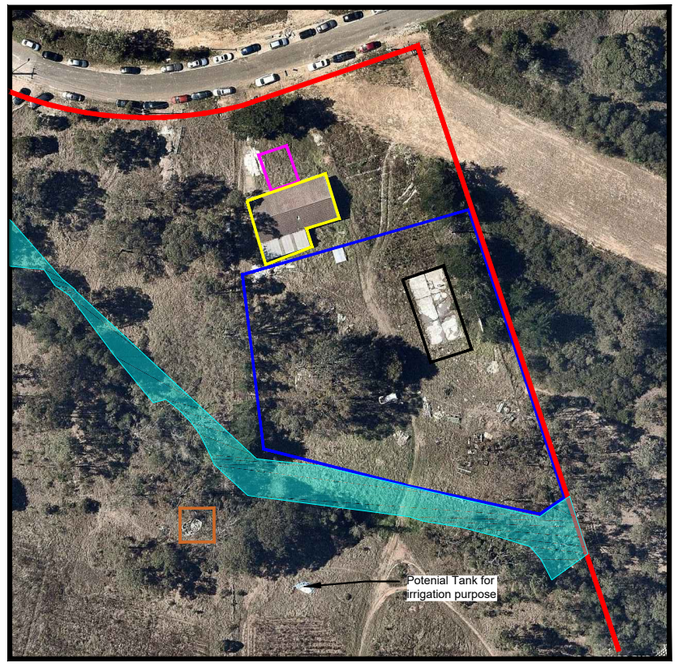
15-07-2010

14-05-2011

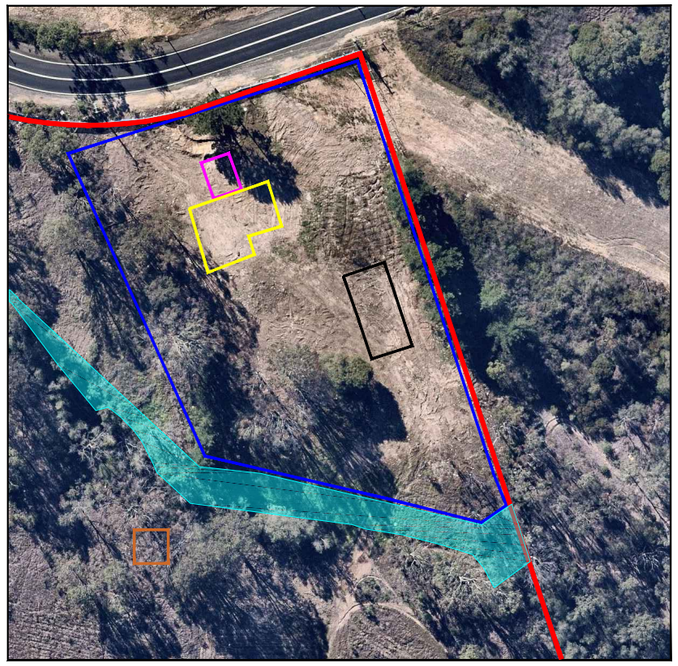
22-04-2014



12-12-2017



06-05-2018



02-11-2018

Map Source: Nearmap, Imagery Dated on: 22-07-2018

LEGEND

- Approximate site boundary
- Area of the creek
- Area of former market garden
- Area of former residential house
- Area of former shed
- Area previously covered by demolition waste
- Location of the abandoned car and its related waste
- Area previously covered by debris

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164-170 Croatia Ave, Edmondson Park NSW

Aerial Photographs (from 2010 to 2018)
North-eastern portion of the site

Figure: 4

Project: E24744.E02_Rev0

Appendix B – Tables

Table B.1 – Summary of Soil Test Results

Sample ID	Sampling Date	Metals								PAHs				BTEX				TRHs				Pesticides		Total PCBs	Asbestos	pH	CEC (meq/100g)
		As	Cd	Cr[#]	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as BaP TEQ)	Benzo(a)pyrene	Total PAHs	Naphthalene	Benzene	Toluene	Ethylbenzene	Total Xylenes	F1	F2	F3	F4	OCPs	OPPs		Presence / absence		
BH1_0.1-0.2	24/7/2020	5	<0.3	7.8	15	12	<0.05	7.4	33	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH1_0.3-0.4		6	<0.3	7.4	14	14	<0.05	7.8	36	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH1_0.7-0.8		5	<0.3	10	6.3	16	<0.05	2.8	7.1	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	6.3	N.A.
BH2_0.1-0.2		4	<0.3	11	7.6	23	<0.05	4.3	29	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH2_0.5-0.6		4	<0.3	9.9	10	8	<0.05	3.8	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH3_0.1-0.2		6	<0.3	19	15	27	<0.05	7.5	46	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH3_0.7-0.8		7	<0.3	21	17	28	<0.05	8	48	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	11
BH4_0.1-0.2		3	<0.3	9.1	3	12	<0.05	2.3	7.3	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH4_0.7-0.8		4	<0.3	9	8.5	8	<0.05	3.3	10	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH5_0.1-0.2		5	<0.3	12	5.5	15	<0.05	3.2	12	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH5_0.9-1.0		4	<0.3	9.7	9.5	9	<0.05	2.1	10	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	4.9	N.A.
BH6_0.1-0.2		11	<0.3	9	31	24	<0.05	14	64	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH6_0.7-0.8		21	0.4	18	40	82	0.06	20	170	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH8_0.1-0.2		5	<0.3	12	4.4	23	<0.05	2.3	9.2	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH8_0.6-0.7		5	<0.3	12	12	10	<0.05	2.9	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH10_0.1-0.2		5	<0.3	13	4.6	11	<0.05	2	8.8	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH10_0.4-0.5		4	<0.3	8.4	12	7	<0.05	3.9	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH12_0.1-0.2		5	<0.3	9.9	4.3	12	<0.05	3.7	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH13_0.1-0.2		6	<0.3	8.6	15	21	<0.05	7.2	49	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH13_0.9-1.0		5	<0.3	11	5.7	12	<0.05	2.4	12	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	4.5	N.A.
BH14_0.1-0.2		5	<0.3	7.6	22	17	<0.05	14	55	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH14_0.6-0.7		5	<0.3	10	9.6	16	<0.05	6.4	19	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH15_0.1-0.2		7	<0.3	15	18	22	<0.05	18	110	0.2	0.2	3.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH15_1.0-1.1		4	<0.3	9.2	13	17	<0.05	7.6	33	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH15_1.5-1.6		5	<0.3	11	17	370	<0.05	8.3	70	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	14
BH17_0.1-0.2		7	<0.3	13	8.1	19	<0.05	4.3	31	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH17_0.9-1.0		7	<0.3	13	4.1	13	<0.05	2.6	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH17_1.5-1.6		5	<0.3	9.2	13	12	<0.05	4.4	21	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH20_0.2-0.3		6	<0.3	18	7.2	12	<0.05	4.8	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	5.7	N.A.
BH21_0.1-0.2		5	<0.3	13	11	17	<0.05	3.8	21	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH22_0.1-0.2		7	<0.3	22	4.9	22	<0.05	3.5	14	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH22_0.5-0.6		6	<0.3	21	9.5	11	<0.05	3.1	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH24_0.1-0.2		5	<0.3	19	8	9	<0.05	2.8	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH24_0.6-0.7		10	<0.3	10	12	13	<0.05	1.7	13	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH25_0.1-0.2		8	<0.3	15	14	17	<0.05	6	31	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH25_0.4-0.5		15	<0.3	17	30	25	<0.05	6.7	40	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH28_0.1-0.2		4	<0.3	13	12	12	<0.05	1.8	14	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH30_0.1-0.2		8	<0.3	13	15	15	<0.05	8.3	32	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH30_0.5-0.6		9	<0.3	15	12	12	<0.05	4.3	21	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH32_0.1-0.2		9	<0.3	12	23	15	<0.05	3.5	20	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH32_1.4-1.5		13	<0.3	6	18	10	<0.05	2	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH34_0.1-0.2		10	<0.3	13	23	15	<0.05	3	19	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH34_0.6-0.7		9	<0.3	13	19	12	<0.05	6.6	31	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH36_0.1-0.2		9	<0.3	17	11	11	<0.05	4.4	22	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH36_0.7-0.8		9	<0.3	14	13	9	<0.05	2.6	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	5.7	N.A.
BH38_0.1-0.2		6	<0.3	12	9.1	12	<0.05	6.8	9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH38_0.6-0.7		8	<0.3	14	14	9	<0.05	4.7	14	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH40_0.1-0.2		5	<0.3	11	7.9	13	<0.05	3.8	9	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH40_0.5-0.6		5	<0.3	11	14	10	<0.05	6.5	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH41_0.1-0.2		7	<0.3	14	11	17	<0.05	5.6	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH41_0.5-0.6		4	<0.3	8.8	14	9	<0.05	4.9	10	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH44_0.1-0.2		9	<0.3	13	12	13	<0.05	6	19	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH44_0.5-0.6		11	<0.3	11	17	9	<0.05	3.3	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH46_0.1-0.2		6	<0.3	13	12	15	<0.05	5.7	13	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH46_0.4-0.5		4	<0.3	7.9	9.1	9	<0.05	2.1	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH47_0.1-0.2		6	<0.3	15	7.6	18	<0.05	6.4	15	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH47_0.4-0.5		5	<0.3	9.5	13	12	<0.05	7.5	19	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	7.8	N.A.
BH50_0.1-0.2		12	<0.3	11	11	21	<0.05	5.4	18	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	N.A.	N.A.
BH50_0.5-0.6		60	0.7	5.2	24	11	<0.05	1.8	17	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.	13
Statistical Analysis																											
Maximum concentration		60	0.7	22	40	370	0.06	20	170	0.2	0.2	3.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	7.8	14
Minimum concentration		3	<0.3	5.2	3	7	<0.05	1.7	7.1	0.2	0.2	3.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<1	<1.7	<1	Absent	4.5	11
NEPM (2013) Criteria																											
HIL A - *Residential with garden / accessible soil*		100	20	100 Cr(VI)	6,000	300	40	400	7,400	3		300										240		1			
HIL B - *Residential with minimal soil access*		500	150	500 Cr(VI)	30,000	1,200	120	1,200	60,000	4		400										600		1			
HIL C - Public open space		300	90	300 Cr(VI)	17,000	600	80	1,200	30,000	3		300										400		1			
HIL D - *Commercial / industrial*		3,000	900	3,600 Cr(VI)	240,000	1,500	730	6,000	400,000	40		4,000										3,600		7			
HSL A & B - Low to high density residential Soil texture classification – Clay		Source depths (0 m to <1 m. BGL)												5	0.7	480	NL	110	50	280					0.01 / 0.001		
		Source depths (1 m to <2 m. BGL)												NL	1	NL	NL	310	90	NL							
		Source depths (2 m to <4 m. BGL)												NL	2	NL	NL	NL	150	NL							
		Source depths (4 m + BGL)												NL	3	NL	NL	NL	290	NL							
HSL C - Recreational / open space Soil texture classification – Clay		Source depths (0 m to <1 m. BGL)												NL	NL	NL	NL	NL	NL	NL					0.02 / 0.001		
		Source depths (1 m to <2 m. BGL)												NL	NL	NL	NL	NL	NL	NL							
		Source depths (2 m to <4 m. BGL)												NL	NL	NL	NL	NL	NL	NL							
		Source depths (4 m + BGL)												NL	NL	NL	NL	NL	NL	NL							
HSL D - Commercial / Industrial Soil texture classification – Clay		Source depths (0 m to <1 m. BGL)												NL	4	NL	NL	NL	310	NL					0.05 / 0.001		
		Source depths (1 m to <2 m. BGL)												NL	6	NL	NL	NL	480	NL							
		Source depths (2 m to <4 m. BGL)												NL	9	NL	NL	NL	NL	NL							
		Source depths (4 m + BGL)												NL	20	NL	NL	NL	NL	NL							
EILs / ESLs - *Urban residential and public open space* [1, 2]		100		470	180	1,100		200	440		0.7			170	65	105	125	45	180	120	1,300	5,600	180				
Management Limits – *Residential, parkland and public open space* [1]																			800	1,000	3,500	10,000					
NSW EPA (2014) Waste Classification Criteria																											

Notes:

Highlighted values exceed HIL / HSL
Highlighted values exceed EILs and ESLs
Concentration exceeds highlighted criteria

Results are recorded in mg/kg

HIL A	NEPC 1999 Amendment 2013 'HIL A' - Health based Residential with garden / accessible soil, also includes children's day care centres, preschools and primary schools.
HIL B	NEPC 1999 Amendment 2013 'HIL B' - Health based Residential with minimal opportunities for soil access including dwellings with fully and permanenetly paved yard space such as high-rise buildings and apartments.
HSL A & B	NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels applicable for vapour intrusion values applicable for low-high density residential settings.
HSL D	NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels applicable for vapour intrusion values applicable for commercial / industrial settings.
#	Thresholds are for Chromium VI.
NA	Not analysed
NL	Not Limiting' If the derived soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical
NC	Not calculated
1	As strata is predominantly clay, fine grained soil assessment criteria values were applied.
2	EIL criteria is derived from a site specific Added Contaminant Limit (ACL) with the Ambient Background Concentration (ABC) for a high traffic NSW suburb.
3	NSW EPA Scheduled Chemical Wastes Chemical Control Order 2004. Section 4.14
4	NSW EPA Polychlorinated Biphenyl (PCB) Chemical Control Order 1997. Where PCBs are reported at concentrations >2 mg/kg and <50 mg/kg, material is *non-scheduled PCB waste* . Where PCBs are reported at concentrations >50 mg/kg, material is *scheduled PCB waste* .
5	ENM Exemption and Order (NSW EPA, 2014).
F1	To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.
F2	To obtain F2 subtract naphthalene from the >C10-C16 fraction.
F3	(>C16-C34)
F4	(>C34-C40)

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Table L-2 Summary of QA/QC Results for Soil Validation Samples **E24744 - Edmondson Park**

Date	Sample Identification	Description	TRH				BTEX				Heavy Metals							
			F1	F2	F3	F4	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
23/07/2020	BH1_0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	7.8	15	12	<0.05	7.4	33
23/07/2020	BHQD1	Intra-laboratory duplicate of BH3_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	7	<0.3	11	5.2	23	<0.05	4.3	14
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***33.33***	***0.00***	***34.04***	**97.03**	**62.86**	***0.00***	**52.99**	**80.85**
23/07/2020	BH15_0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	7	<0.3	15	18	22	<0.05	18	110
23/07/2020	BHQD2	Intra-laboratory duplicate of BH28_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	20	7.6	13	<0.05	14	31
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***33.33***	***0.00***	***28.57***	**81.25**	**51.43**	***0.00***	***25.00***	**112.06**
23/07/2020	BH30-0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	8	<0.3	13	15	15	<0.05	8.3	32
23/07/2020	BHQD3	Intra-laboratory duplicate of BH28_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	8	<0.3	15	10	10	<0.05	3.5	18
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***14.29***	***40.00***	***40.00***	***0.00***	**81.36**	**56.00**
Inter-laboratory Duplicate																		
23/07/2020	BH1_0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	7.8	15	12	<0.05	7.4	33
23/07/2020	BHQT1	Intra-laboratory duplicate of BH3_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.4	11	22	17	<0.1	15	53
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***34.04***	***37.84***	***34.48***	***NA***	**67.86**	***46.51***
23/07/2020	BH15_0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	7	<0.3	15	18	22	<0.05	18	110
23/07/2020	BHQT2	Inter-laboratory duplicate of BH28_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	4	<0.4	18	8	14	<0.1	10	21
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***18.18***	**76.92**	***44.44***	***NA***	**57.14**	**135.88**
23/07/2020	BH30-0.1-0.2	Primary Soil Sample	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	8	<0.3	13	15	15	<0.05	8.3	32
23/07/2020	BHQT3	Inter-laboratory duplicate of BH28_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	7	<0.4	16	14	19	<0.1	7	28
		RPD	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***20.69***	***6.90***	***23.53***	***NA***	***16.99***	***13.33***
Trip Blanks																		
23/07/2020	Trip Blank	Soil	-	-	-	-	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-	-	-
Trip Spikes																		
23/07/2020	Trip Spike	Soil	-	-	-	-	95%	97%	97%	96%	-	-	-	-	-	-	-	-
Rinsate Blanks																		
23/07/2020	BHQR1	De-ionised Water	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.0001	<1	<5

52.17 Indicates values where a single result is found to be less than detection, with the duplicate sample found to be over the detection limit.

82.35 RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE: All soil results are reported in mg/kg . All water results are reported in µg/L.

F1 = TRH C6-C10 less the sum of BTEX
F2 = TRH >C10-C16 less naphthalene
F3 = TRH >C16-C34
F4 = TRH >C34-C40

[1] Value shown is the lowest recovery value reported for xylenes

Appendix C – Proposed Development Plan and site survey Plan

EDMONDSON PARK SOUTH PRECINCT

164 - 170 CROATIA AVENUE

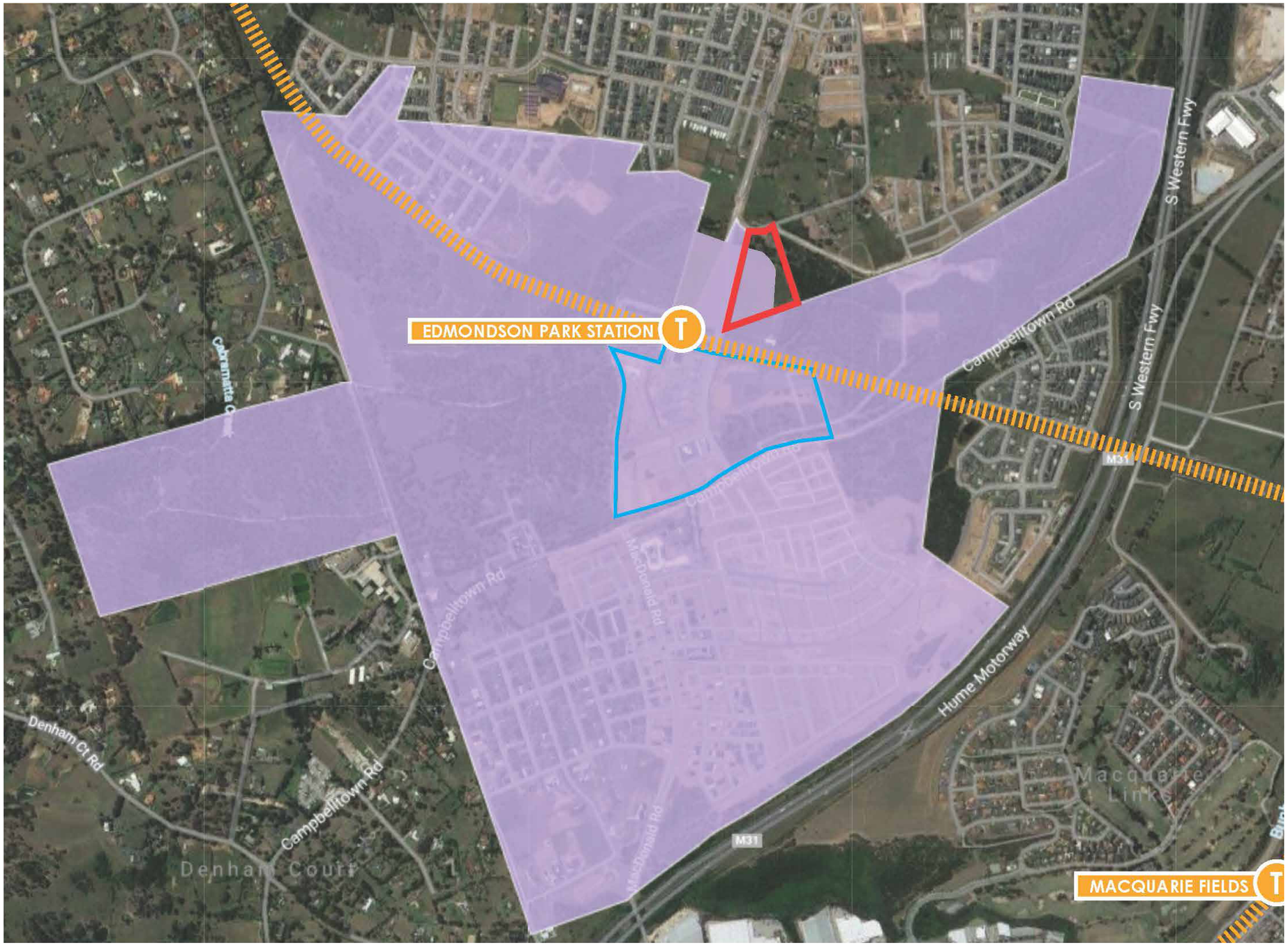
EDMONDSON PARK

STAGE 1 Conceptual Master Plan

SUPERSTAR HOLDING GROUP PTY LTD

Sept 2020

tonkin owen ptnrs



Subject Site

Ed Square
(Fraser Property)

Edmondson Park
(Landcom)

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	CONTEXT	NOT TO SCALE	Sep 2020

LOCATION

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	LOCATION	NOT TO SCALE	Sep 2020

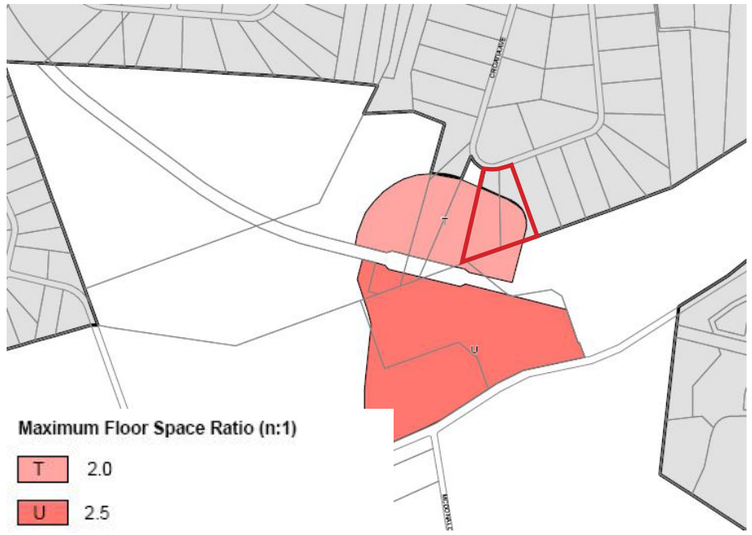
SEPP (STATE SIGNIFICANT PRECINCTS) 2005

The SEPP corresponds with the higher order intent provided by the Concept Plan by providing more detailed (principal) development standards such as: FSR, maximum building height, land use zoning, minimum lot size and areas affected by native vegetation protection.

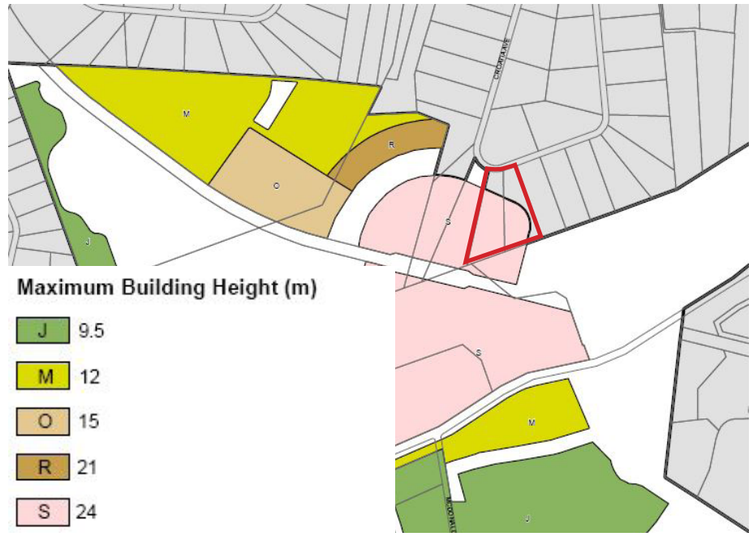
The site is subject to the following development standards:

- Maximum FSR 2.0:1 (Station Precinct only);
- Maximum Building height: 24m (Station Precinct);
- Maximum Building Height: 21m (Parkland Edge);
- Maximum Building Height: 15m (School site);
- Maximum Building Height: 12m (balance of Parkland Precinct);
- Station Precinct zoned B4 – Mixed Use
- Parkland Precinct (including school site) zoned R1 – General Residential

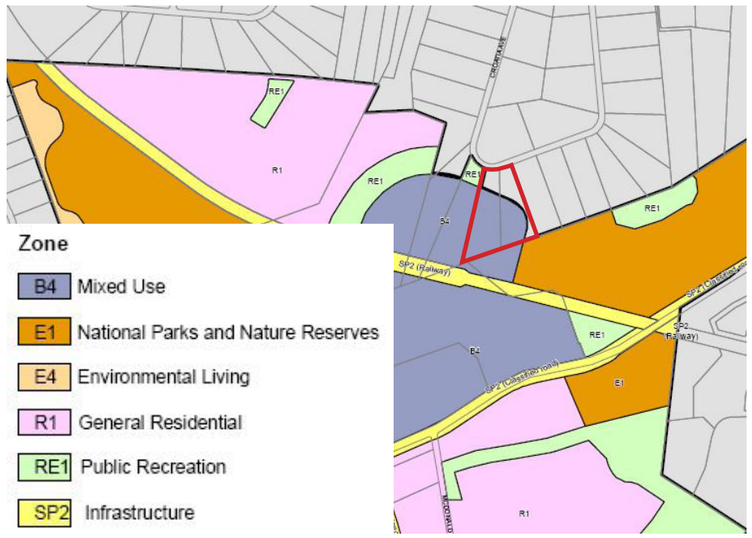
The proposed design is informed by these development parameters and is intended to test them with a built form outcome. This has then informed the modifications porposed to the Concept Plan and the SEPP.



SEPP 2005 FSR MAP



SEPP 2005 MAXIMUM BUILDING HEIGHT MAP



SEPP 2005 LAND ZONING MAP

SEPP 2005 FLOOD PLANNING MAP

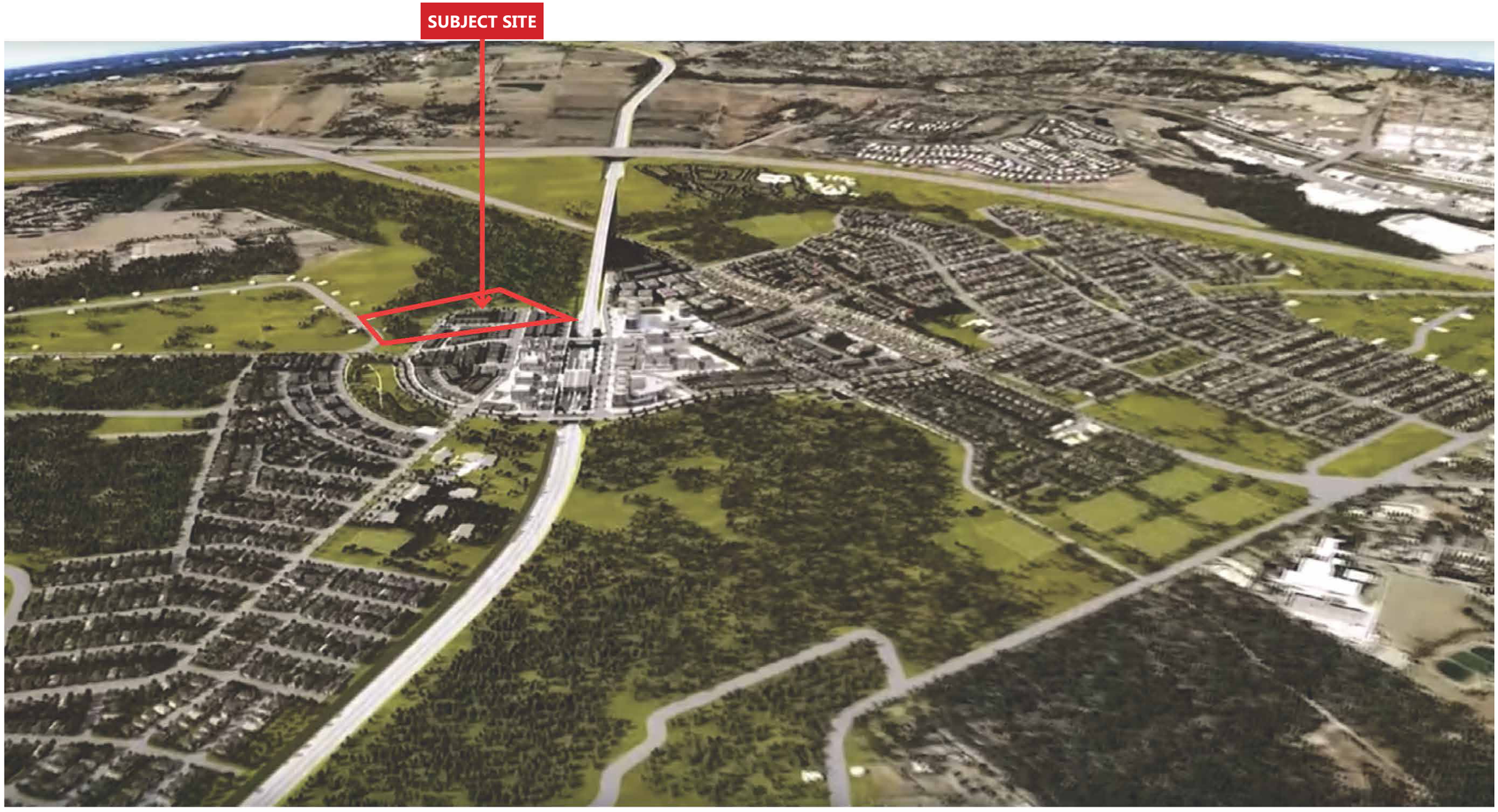
SUBJECT SITE

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	SEPP MAPS	NOT TO SCALE	Sep 2020

This is a statement of present intent only based on the best available knowledge at the time
due to future circumstances and any such statement will not amount to a legally enforce

EDMONDSON PARK MASTERPLAN

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	EDMONDSON PARK MASTER SITE PLAN	NOT TO SCALE	Sep 2020



EDMONDSON PARK MASTER PLAN

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	EDMONDSON PARK MASTER SITE PLAN	NOT TO SCALE	Sep 2020

EDMONDSON PARK FRASERS TOWN CENTRE SOUTH MASTER PLAN

The area to the south of the train station is designated Edmondson Park Frasers Town Centre (EDFTC). The proposal to amend the Edmondson Park Concept Plan (Mod 4) was approved in October, 2017.

The urban design report which informed the Planning Proposal highlighted the following Vision for the precinct:

The Edmondson Park Frasers Town Centre Precinct is set to become a regionally significant community and the benchmark Town Centre of Sydney, characterised by modern enterprise, attractive and vibrant lifestyle offerings as well as diverse social, economic and housing opportunities.

The approved Master Plan includes two main precincts:

- Area A - The Town Centre Core precinct is characterised by a variety of commercial and retail choices, including supermarkets, department stores, gymnasium, medical centre, cinemas, and a family friendly food and entertainment venue. Residential apartments are located along the edges of the commercial buildings, providing for articulation and integration of the public realm.
- Area B - The residential precinct is characterised by a mix of medium density housing, multi-dwelling townhomes (mews housing), studio dwellings, and terraces.

Approved Master Plan Structure for Edmondson Park Frasers Town Centre South (Source: Edmondson Park Frasers Town Centre Public Domain Report, Hassell, Nov 2016)

FRASERS SITE MASTER PLAN

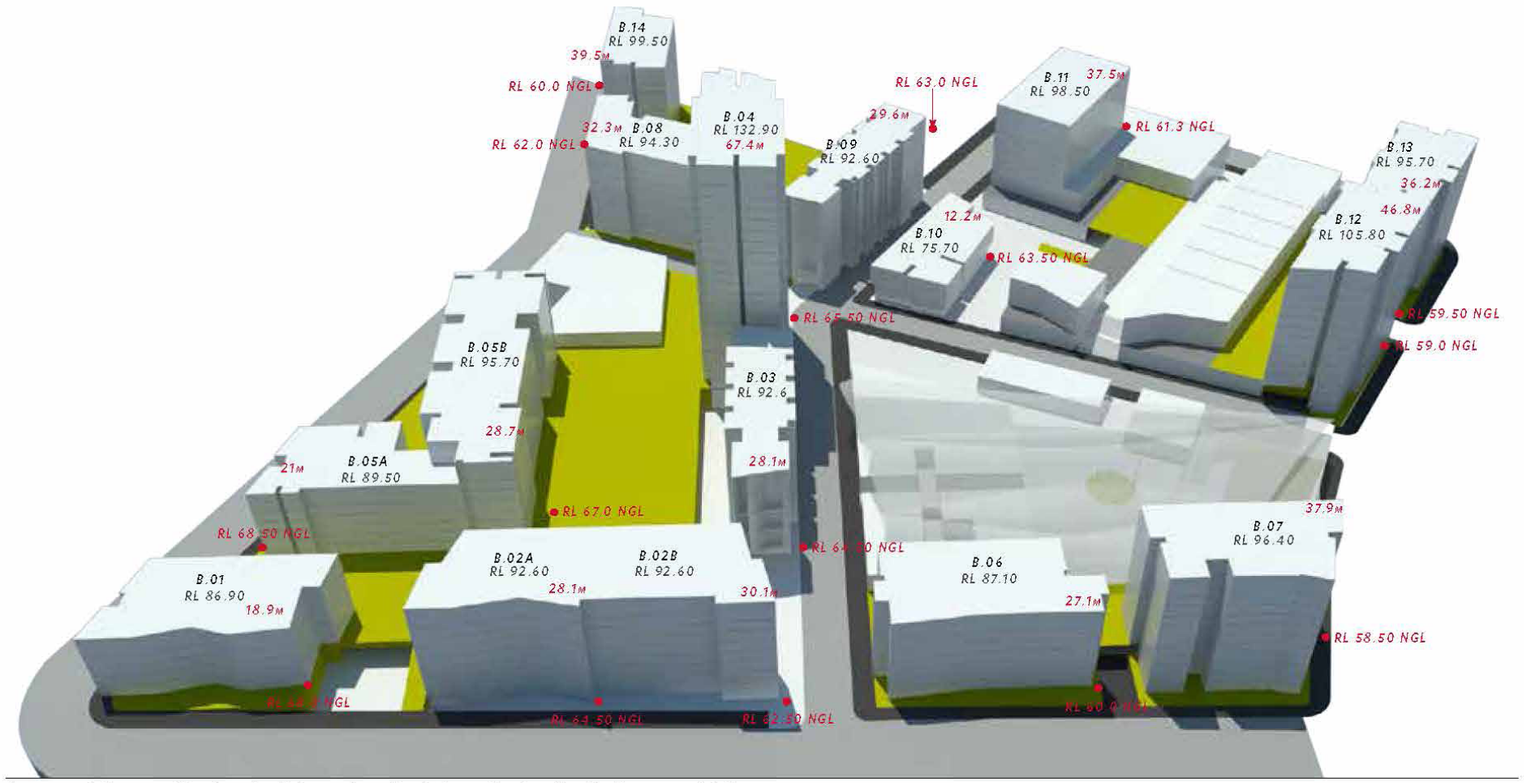
PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	FRASERS SITE MASTER PLAN	NOT TO SCALE	Sep 2020

EDMONDSON PARK FRASERS TOWN CENTRE SOUTH COMMERCIAL CORE

The EDFTC Commercial core precinct is located within the 4 blocks immediately south of the train station.

One of the elements within the approved modification for the Town Centre South are the proposed building heights.

The approved modification is consistent with the 2.5:1 FSR, as per the SEPP 2005. However, removed the FSR applicable under the SEPP and instead included a maximum gross floor area divided across four quadrants. The approved modification increased building heights to a maximum 67.4m. The maximum building height is then variable according to each of the quadrants of development, to allow for flexibility in future siting, heights of buildings and GFA.



Approved Concept Design for Edmondson Park Town Centre South Commercial Core

(Source: Edmondson Park Town Centre Core Section 75W - Design Report, Rice Daubney, 2016)

FRASERS SITE MASTER PLAN MASSING DIAGRAM

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	FRASERS SITE MASTER PLAN	NOT TO SCALE	Sep 2020

DESIGN PRINCIPLES

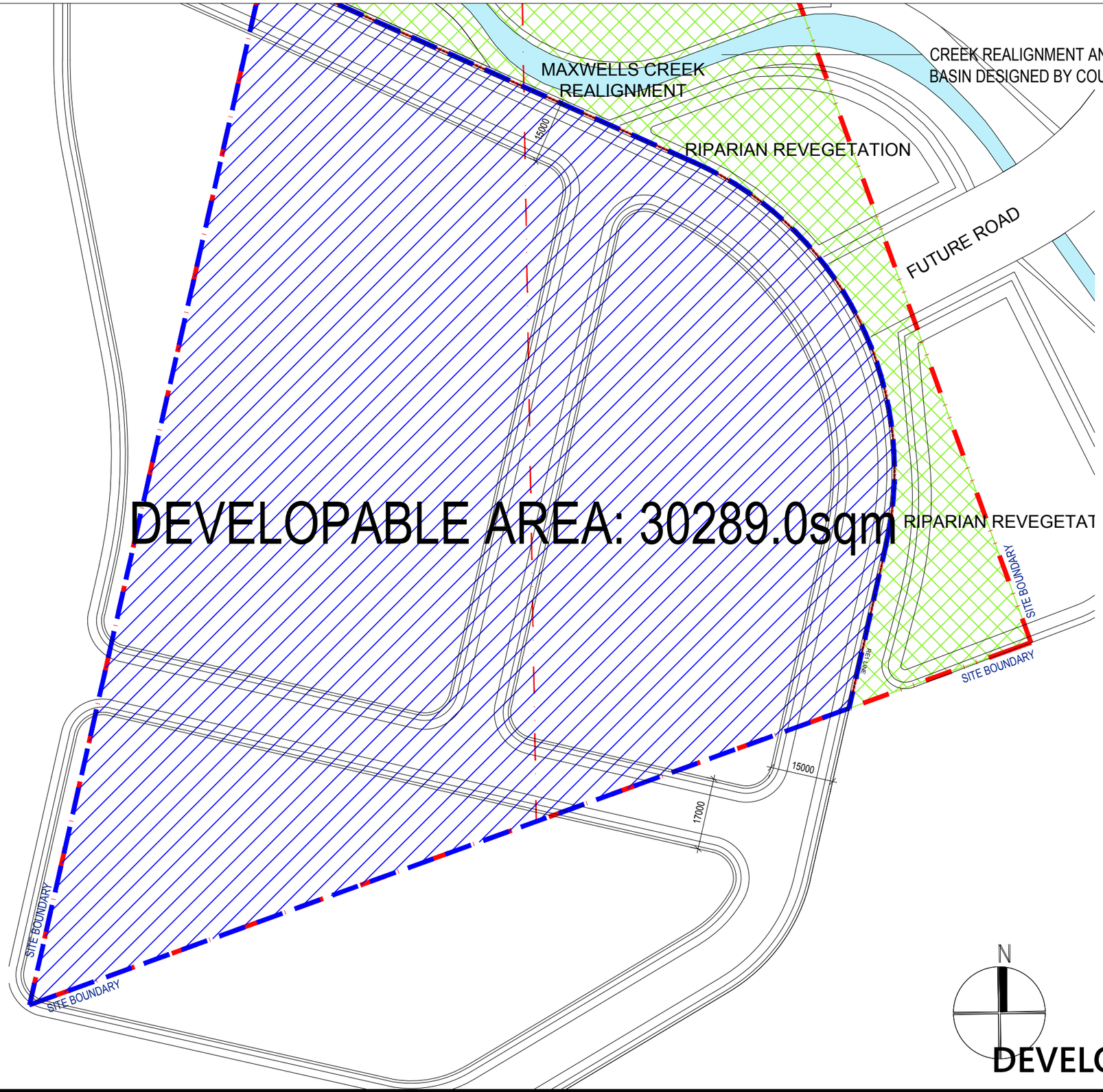
Whilst a number of design options and development scenarios have been explored for the Site the following design principles have been consistently applied to the Master Plan:

- Connectivity- a system of new local streets and pedestrian paths provide maximum permeability and legibility through visual and physical connections to key destinations. Special attention has been given to 'green to green' connection.
- Amenity- Local streets, blocks and indicative built form solutions optimise public and private amenity.
- A Context Sensitive Approach- Character Areas have been identified early in the process to appropriately match density, built form and natural environment to deliver an authentic lifestyle environment and choice.
- Diversity- A variety of housing typologies are proposed which respond to the site features and also provide a sensitive transition to existing land uses and future housing; typically transitioning at the back of the block to 'complete the streets'.

Proposed concept master plan

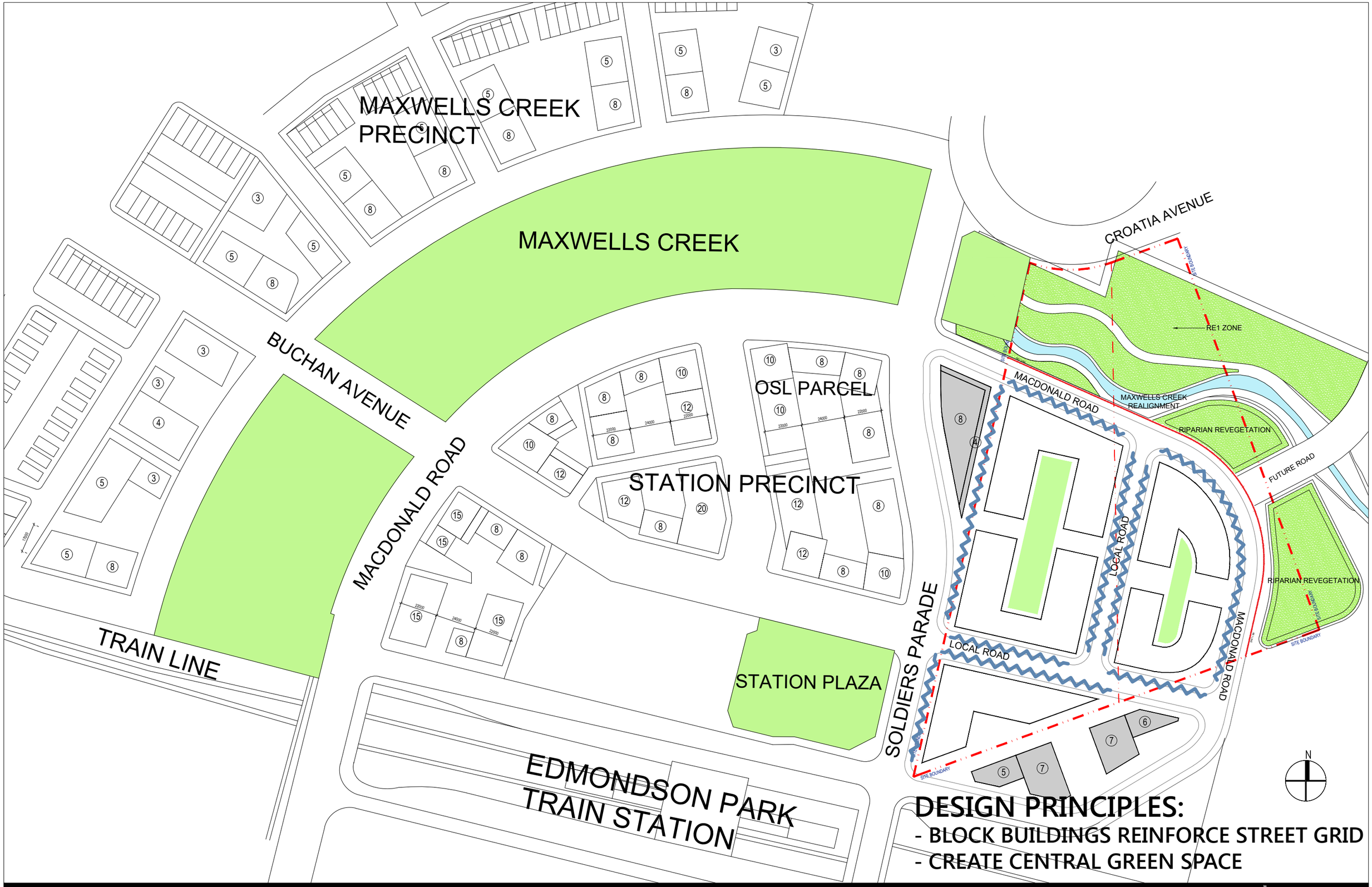
LANDCOM MASTER PLAN

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	LANDCOM MASTER PLAN	NOT TO SCALE	Sep 2020



DEVELOPABLE AREA

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DEVELOPABLE AREA	1:1000@A3	Sep 2020



PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DESIGN PRINCIPLES - BLOCK BUILDINGS REINFORCE STREET GRID - CREATE CENTRAL GREEN SPACE	1:2000@A3	Sep 2020

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

SOLDIERS PARADE

CROATIA AVENUE

MACDONALD ROAD

MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

FUTURE ROAD

LOCAL ROAD

SITE BOUNDARY

RE1 ZONE

N

DESIGN PRINCIPLES:

- NORTH/SOUTH ORIENTATION
MAXIMISE SUN TO OPEN SPACE+UNITS

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DESIGN PRINCIPLES - NORTH/SOUTH ORIENTATION - MAXIMISE SUN TO OPEN SPACE + UNITS	1:2000@A3	Sep 2020

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

SOLDIERS PARADE

LOCAL ROAD

FUTURE ROAD

RE1 ZONE

MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

SITE BOUNDARY

N

DESIGN PRINCIPLES:
- EXPOSURE TO GREEN SPACE

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DESIGN PRINCIPLES - EXPOSURE TO GREEN SPACE	1:2000@A3	Sep 2020

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

CROATIA AVENUE

SITE BOUNDARY

RE1 ZONE

MACDONALD ROAD

MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

FUTURE ROAD

LOCAL ROAD

SOLDIERS PARADE

DESIGN PRINCIPLES:

- PERMEABILITY
- MID - BLOCK LINKAGE

N

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DESIGN PRINCIPLES - PERMEABILITY - MID-BLOCK LINKAGE	1:2000@A3	Sep 2020

LOWERED PORTION

POTENTIAL OVERSHADOWING

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

SOLDIERS PARADE

CROATIA AVENUE

MACDONALD ROAD

MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

FUTURE ROAD

LOCAL ROAD

LOCAL ROAD

MACDONALD ROAD

RIPARIAN REVEGETATION

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

RE1 ZONE

N

DESIGN PRINCIPLES:

- REDUCED HEIGHT TO AREAS TO MINIMISE OVERSHADOWING

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	DESIGN PRINCIPLES - REDUCED HEIGHT TO AREAS TO MINIMISE OVERSHADOWING	1:2000@A3	Sep 2020

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

SOLDIERS PARADE

RE1 ZONE

MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

FUTURE ROAD

SITE BOUNDARY

COMBINED MASTER PLAN

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	COMBINED MASTER PLAN	1:2000@A3	Sep 2020

tonkin zulaikha greenhalgh

MAXWELLS CREEK PRECINCT

MAXWELLS CREEK

BUCHAN AVENUE

MACDONALD ROAD

OSL PARCEL

STATION PRECINCT

STATION PLAZA

TRAIN LINE

EDMONDSON PARK TRAIN STATION

SOLDIERS PARADE

PEDESTRIAN CRESCENT

RE1 ZONE

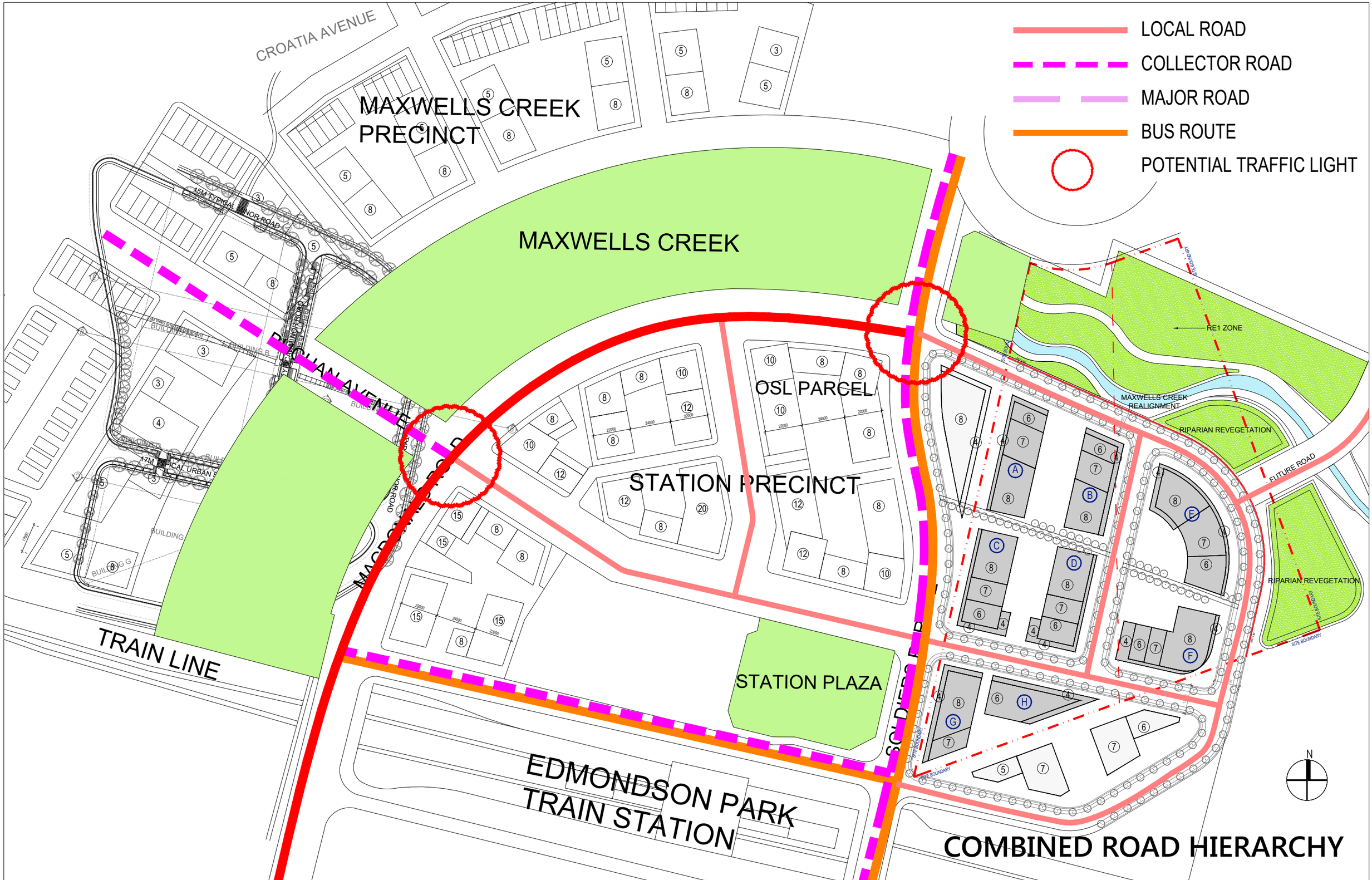
MAXWELLS CREEK REALIGNMENT

RIPARIAN REVEGETATION

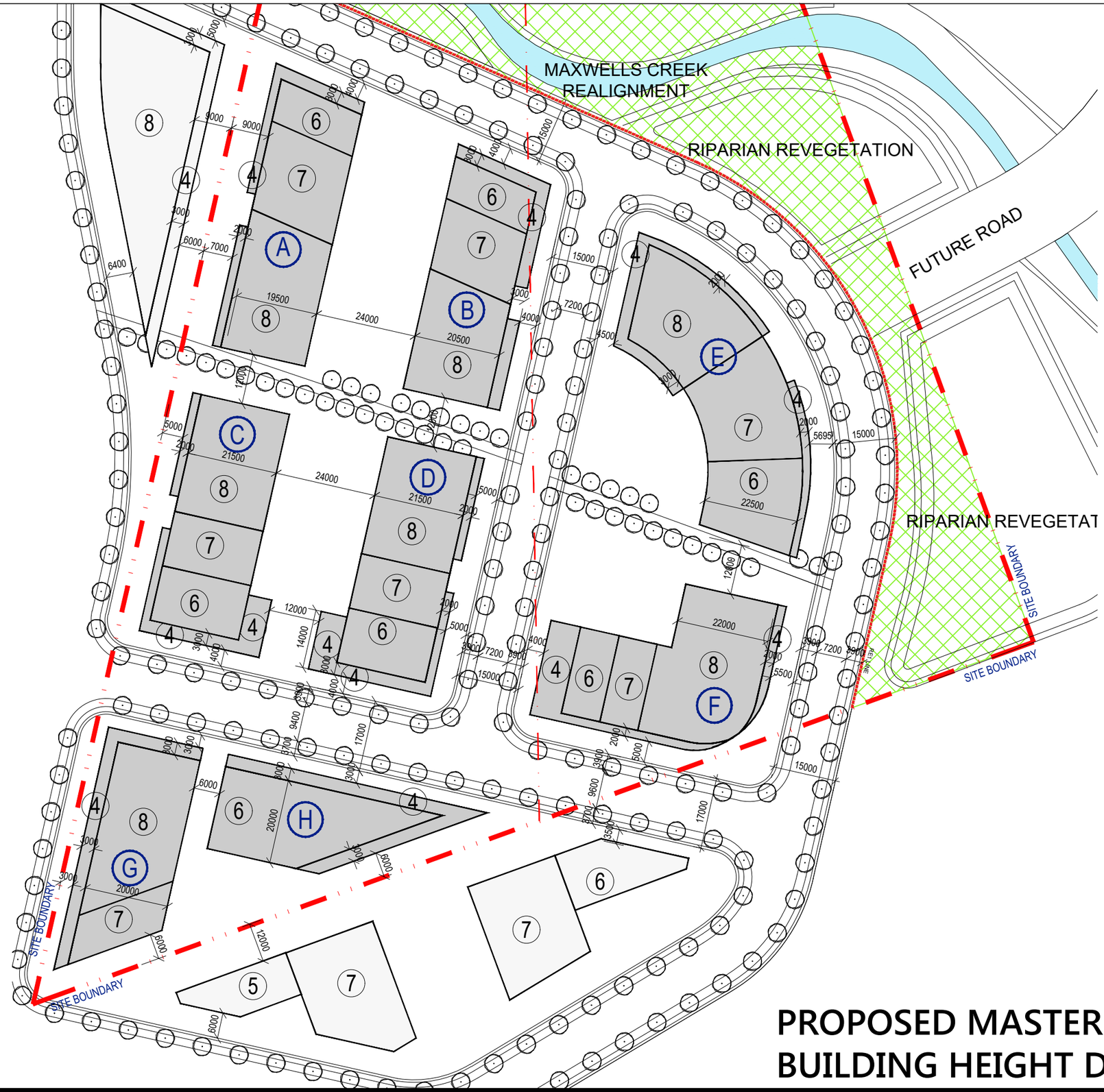
FUTURE ROAD

SITE BOUNDARY

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA		1:2000@A3	Sep 2020



PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	STREET NETWORK DIAGRAM	1:2000@A3	Sep 2020



PROPOSED MASTER PLAN
BUILDING HEIGHT DIAGRAM

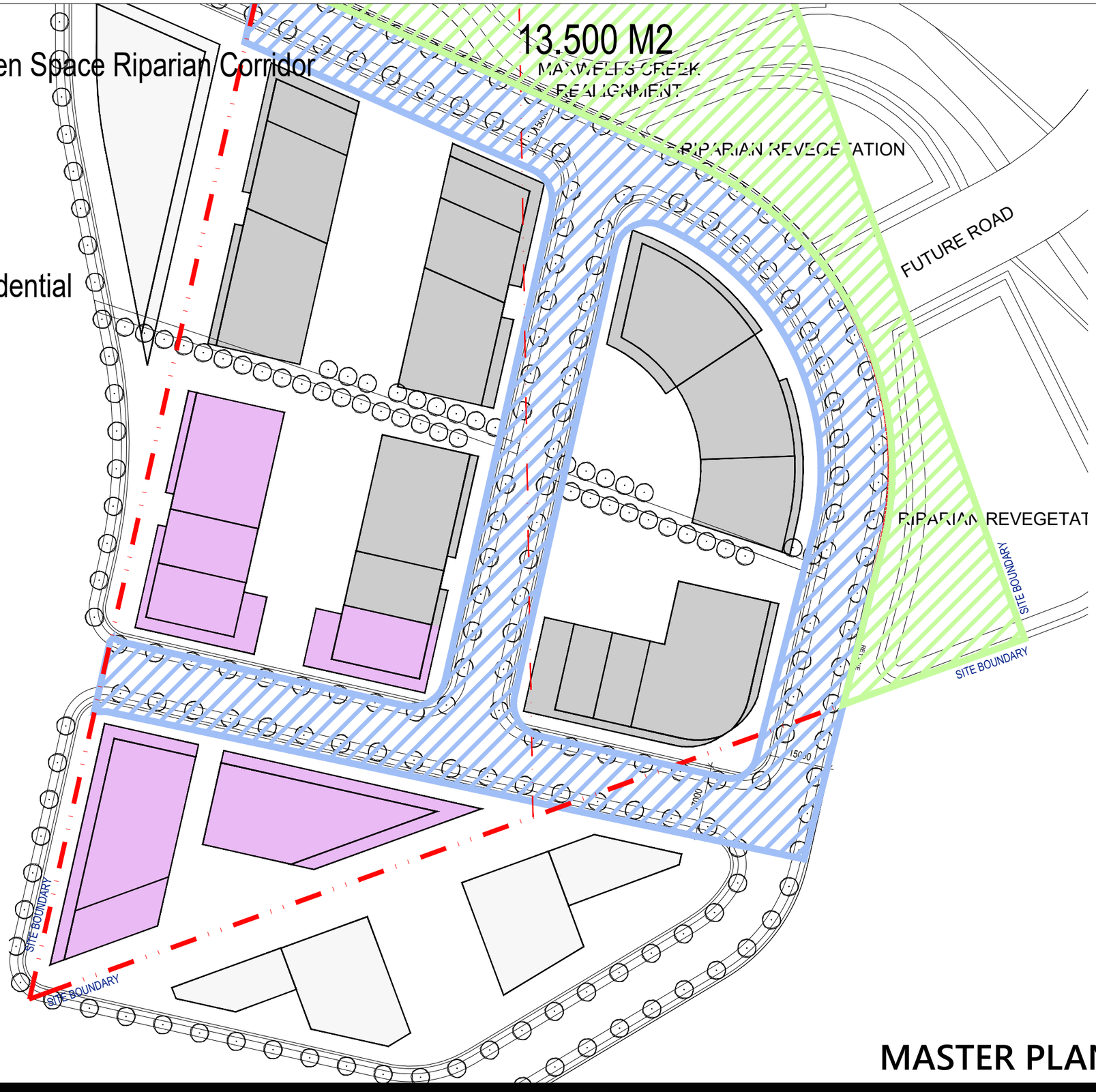
PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	BUILDING HEIGHT DIAGRAM	1:1000@A3	August 2020

RE 1 Public Open Space Riparian Corridor

Road Allocation

Residential

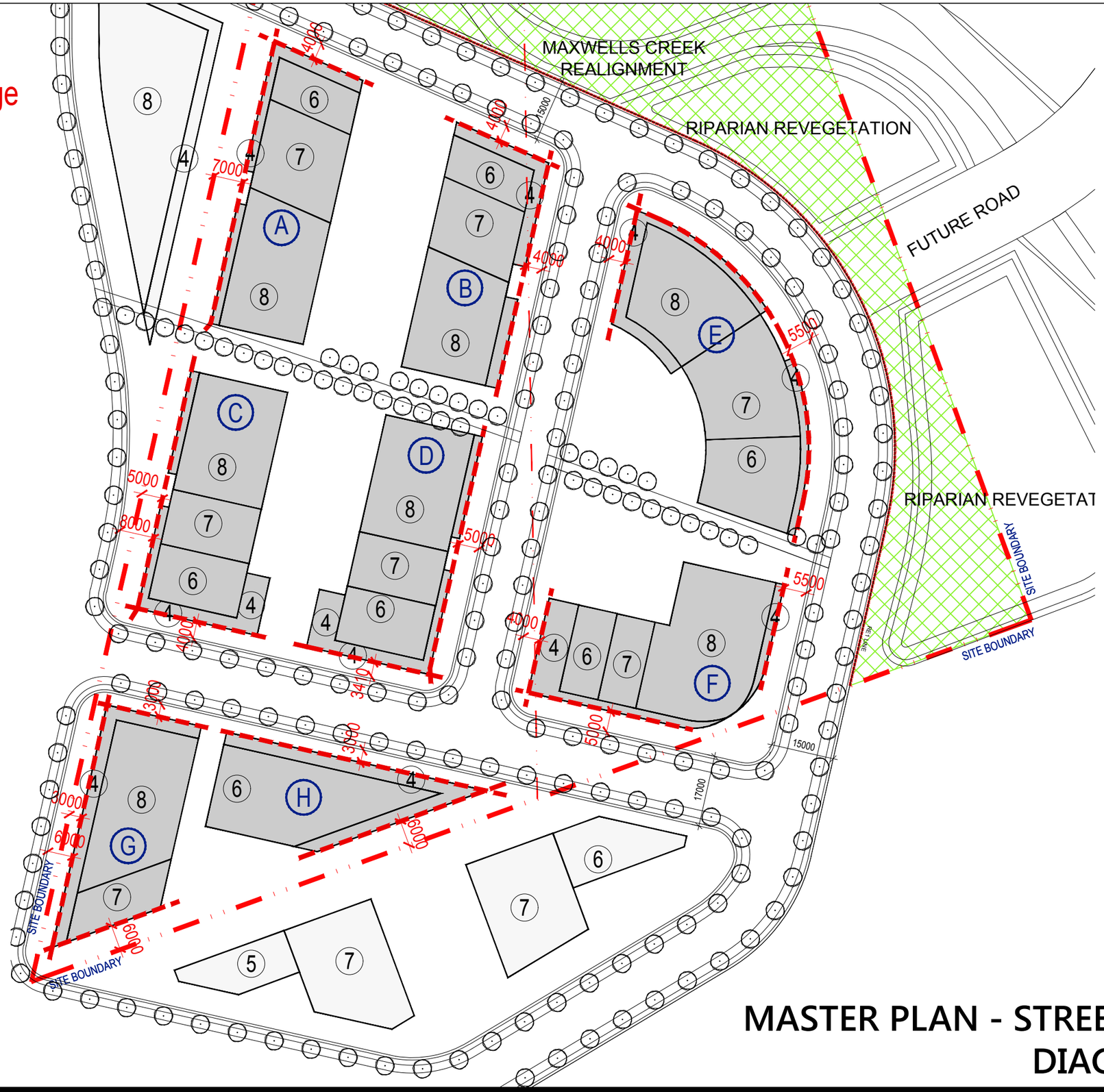
Mixed use
commercial/residential



MASTER PLAN - LAND USE

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	ROAD & OPEN SPACE DIAGRAM	1:1000@A3	Sep 2020

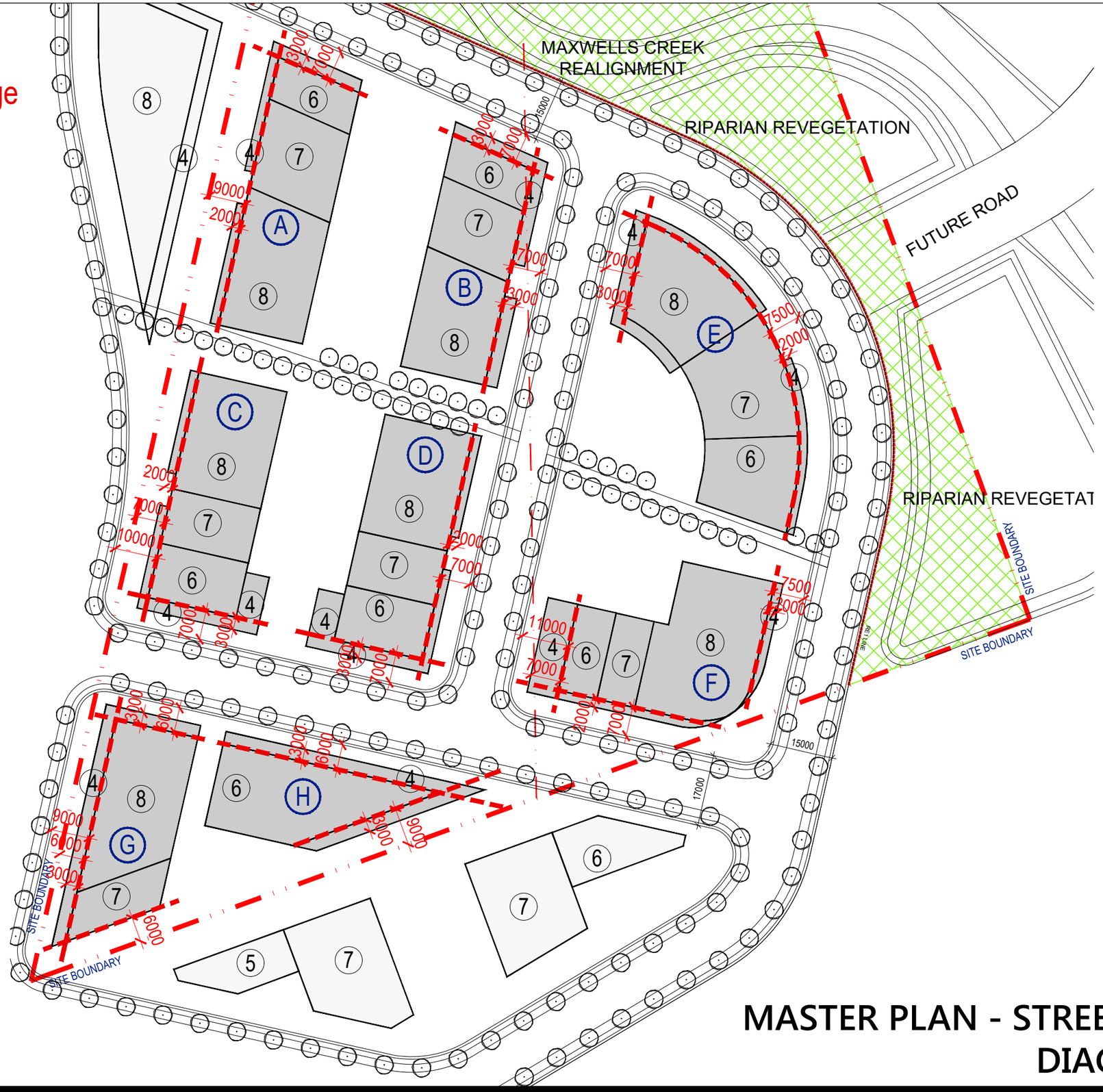
Building Edge



MASTER PLAN - STREET SETBACK DIAGRAM (G-3)

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	STREET SETBACK DIAGRAM (G - 3)	1:1000@A3	Sep 2020

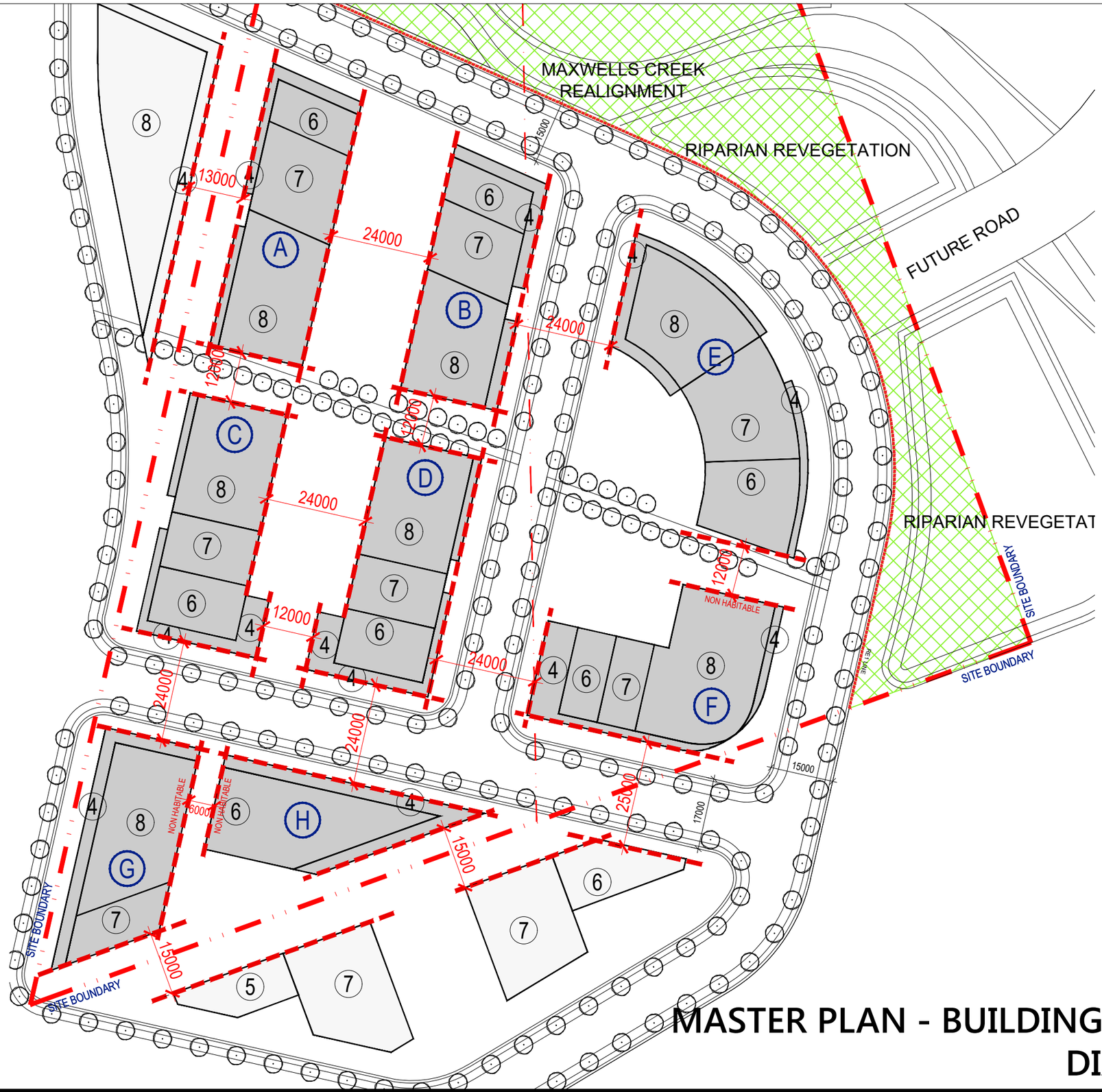
Building Edge



MASTER PLAN - STREET SETBACK DIAGRAM (4-7)

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	STREET SETBACK DIAGRAM (4 - 7)	1:1000@A3	Sep 2020

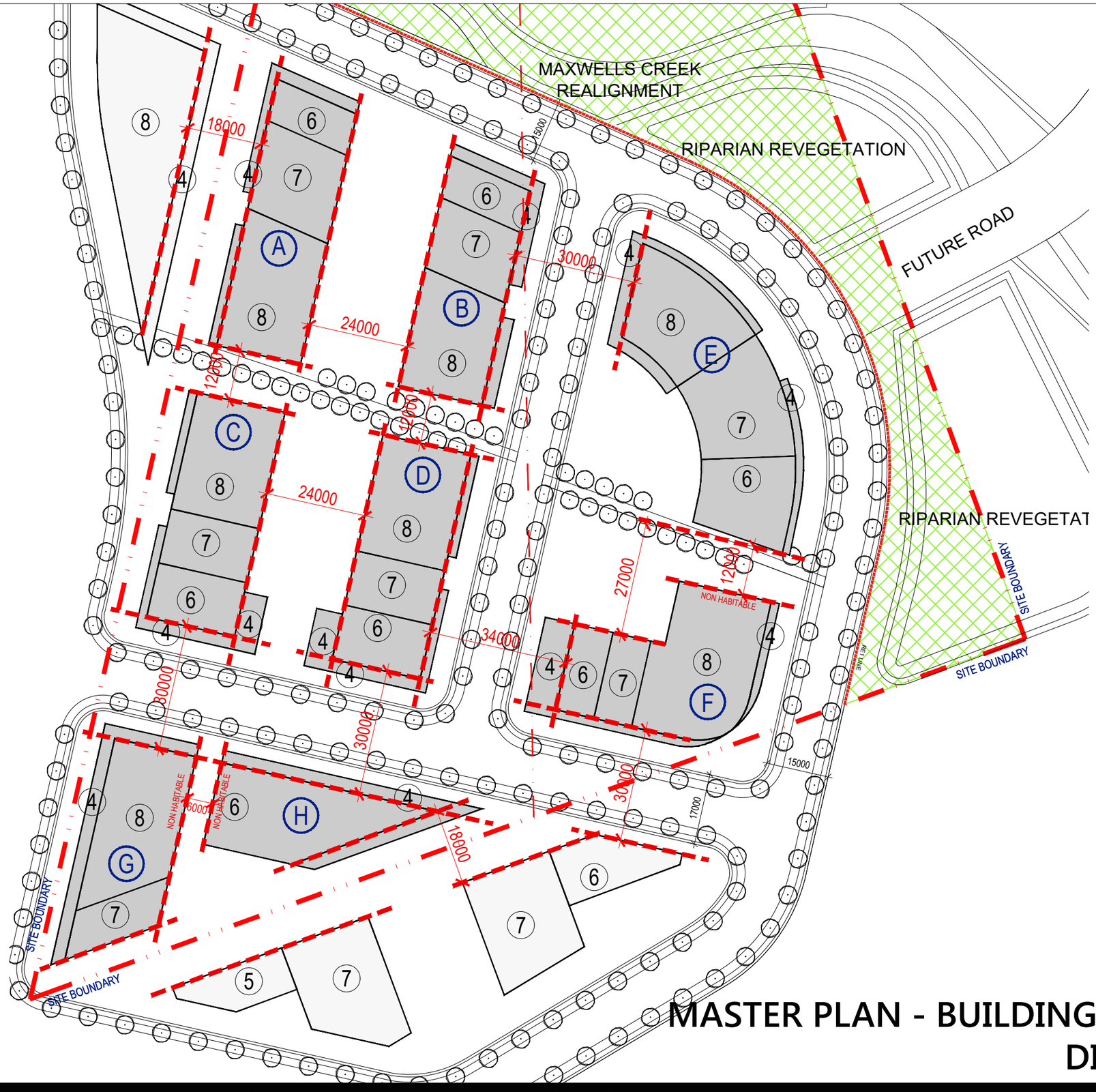
G - L3



MASTER PLAN - BUILDING SEPARATION DIAGRAM (G-3)

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	BUILDING SEPARATION DIAGRAM (G - 3)	1:1000@A3	Sep 2020

L4 - L7



MASTER PLAN - BUILDING SEPARATION DIAGRAM (4-7)

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	BUILDING SEPARATION DIAGRAM (4 - 7)	1:1000@A3	Sep 2020

GREEN SPACE

MASTER PLAN - GREEN SPACE

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	GREEN SPACE DIAGRAM	1:1000@A3	Sep 2020

SUB ARTERIAL ROAD
COLLECTOR ROAD
LOCAL ROAD
BUS ROUTE

MAXWELLS CREEK
REALIGNMENT

RIPARIAN REVEGETATION

FUTURE ROAD

RIPARIAN REVEGETAT

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

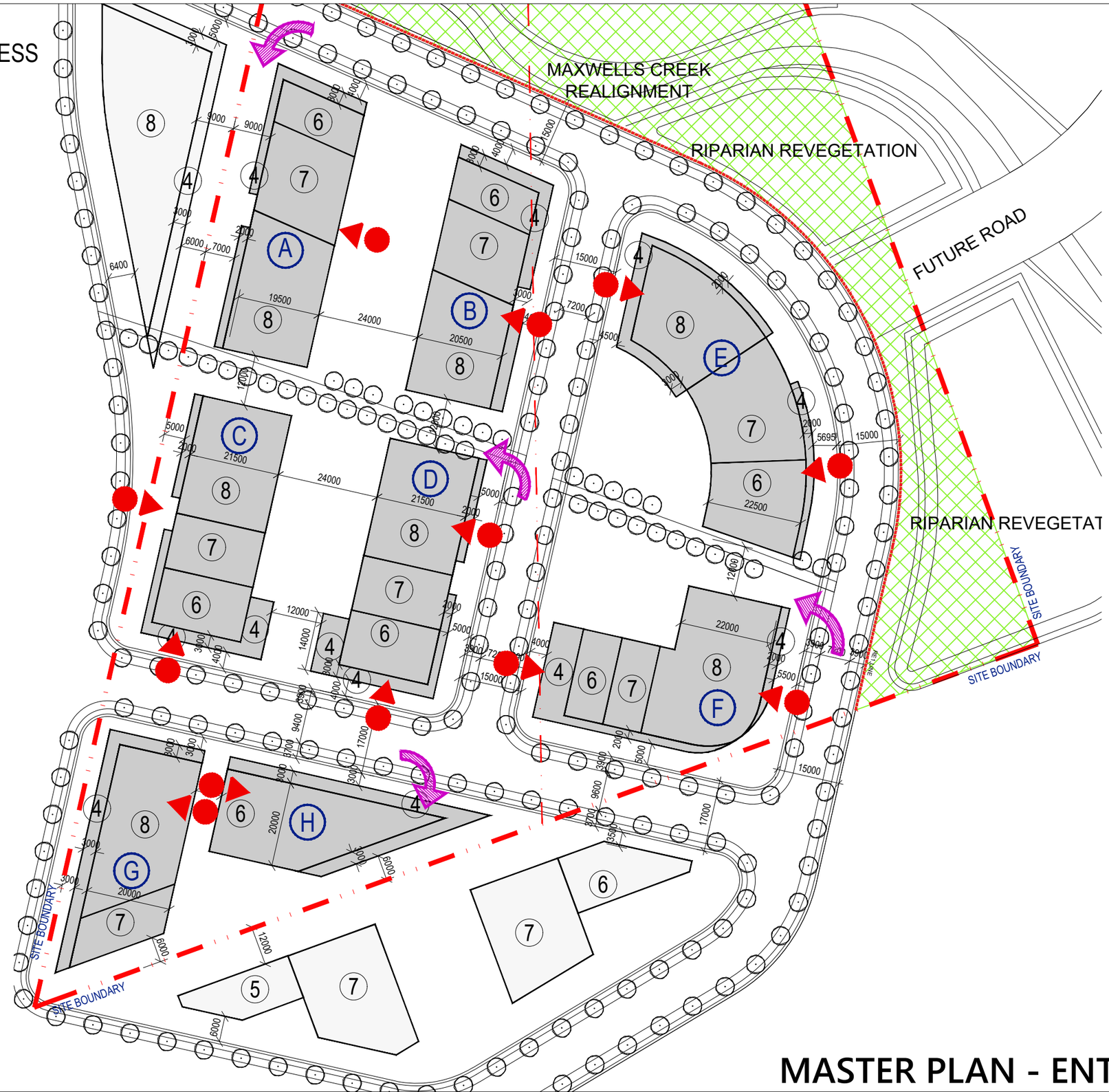
N

MASTER PLAN - ROAD HIERARCHY

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	ROAD HIERARCHY DIAGRAM	1:1000@A3	Sep 2020

RESIDENTIAL ADDRESS

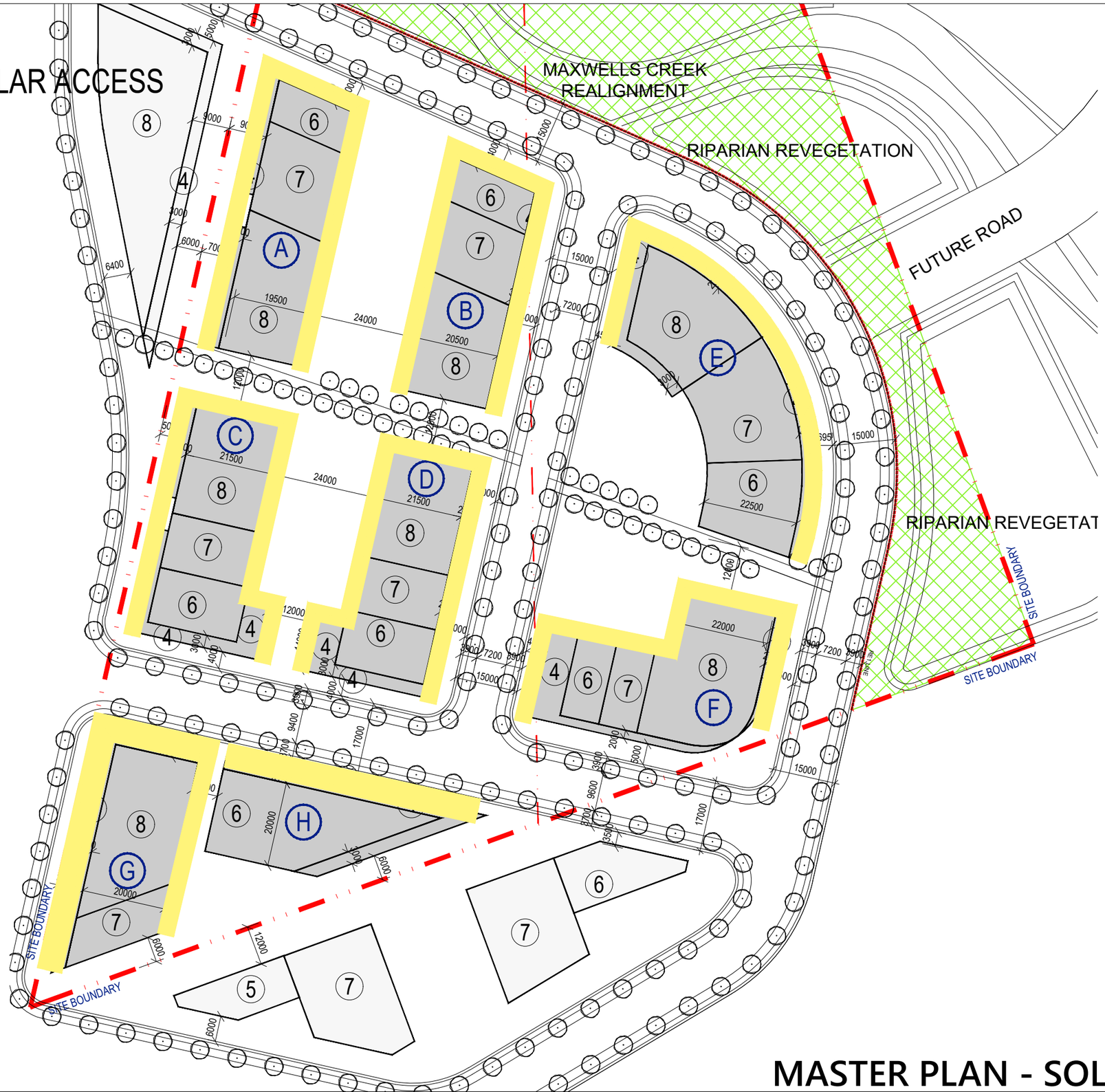
PARKING/LOADING



MASTER PLAN - ENTRY DIAGRAM

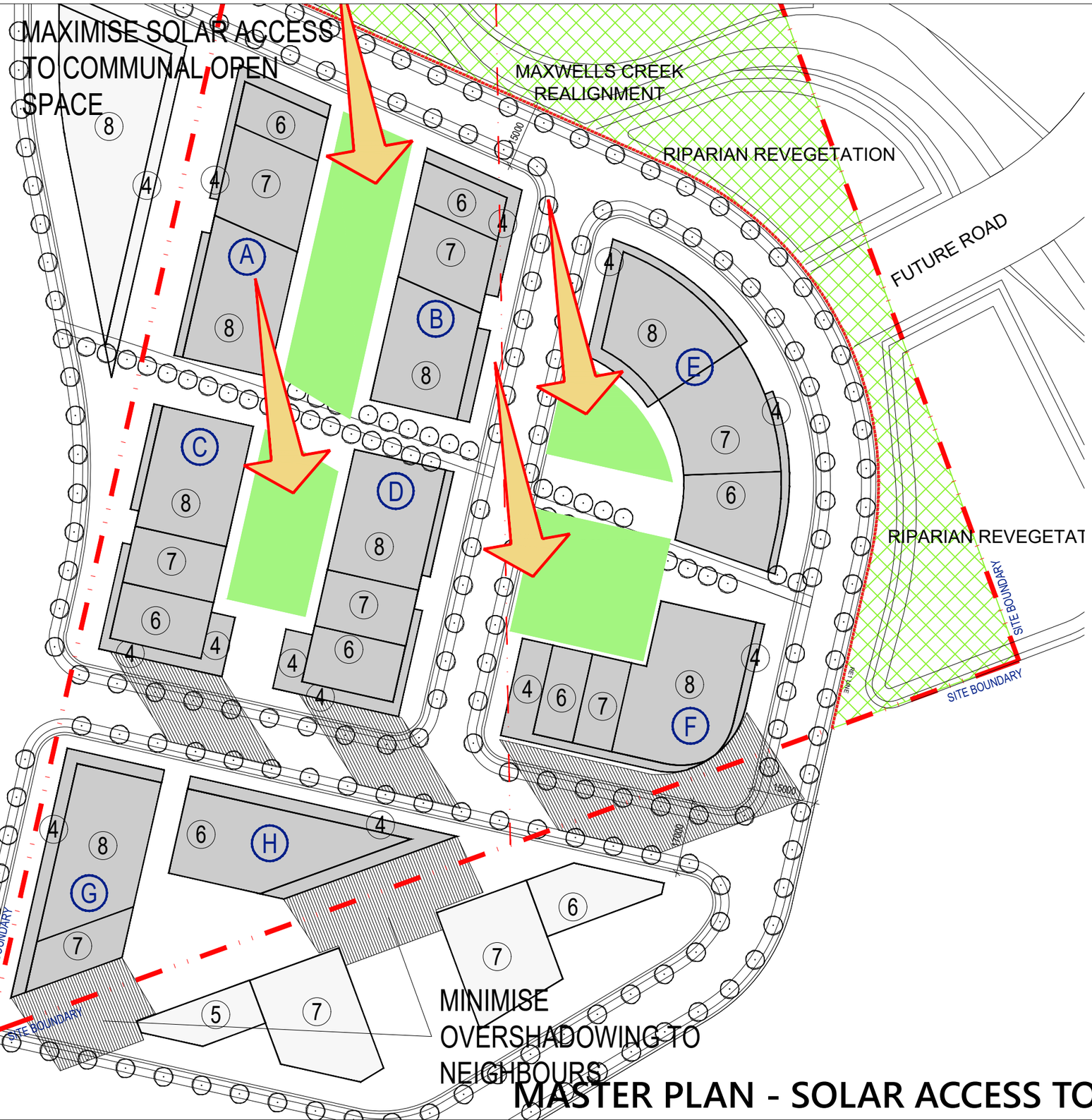
PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	ACCESS + CIRCULATION DIAGRAM	1:1000@A3	Sep 2020

2 HOURS SOLAR ACCESS



MASTER PLAN - SOLAR DIAGRAM

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	2 HOURS SOLAR DIAGRAM	1:1000@A3	Sep 2020



MASTER PLAN - SOLAR ACCESS TO OPEN SPACE

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA	SOLAR ACCESS TO OPEN SPACE	1:1000@A3	Sep 2020

LANDCOM MASTERPLAN MASSING DIAGRAM

PROJECT ADDRESS	CLIENT	PROJECT	DRAWING	SCALE	DATE
164 - 170 Croatia Avenue, Edmondson Park 2174	Super star Holding Group Pty Ltd	Edmondson Park Concept DA			Sep 2020

Rev.	Description	By	Date
A.	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Notes

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Legend

DRAWING LABEL

BASEMENT L1 PLAN

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 2
75-77 Dunning Street
Moss Vale NSW 2577
T 0423 0000 2000
E tony@tonyowen.com.au

Project

EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3

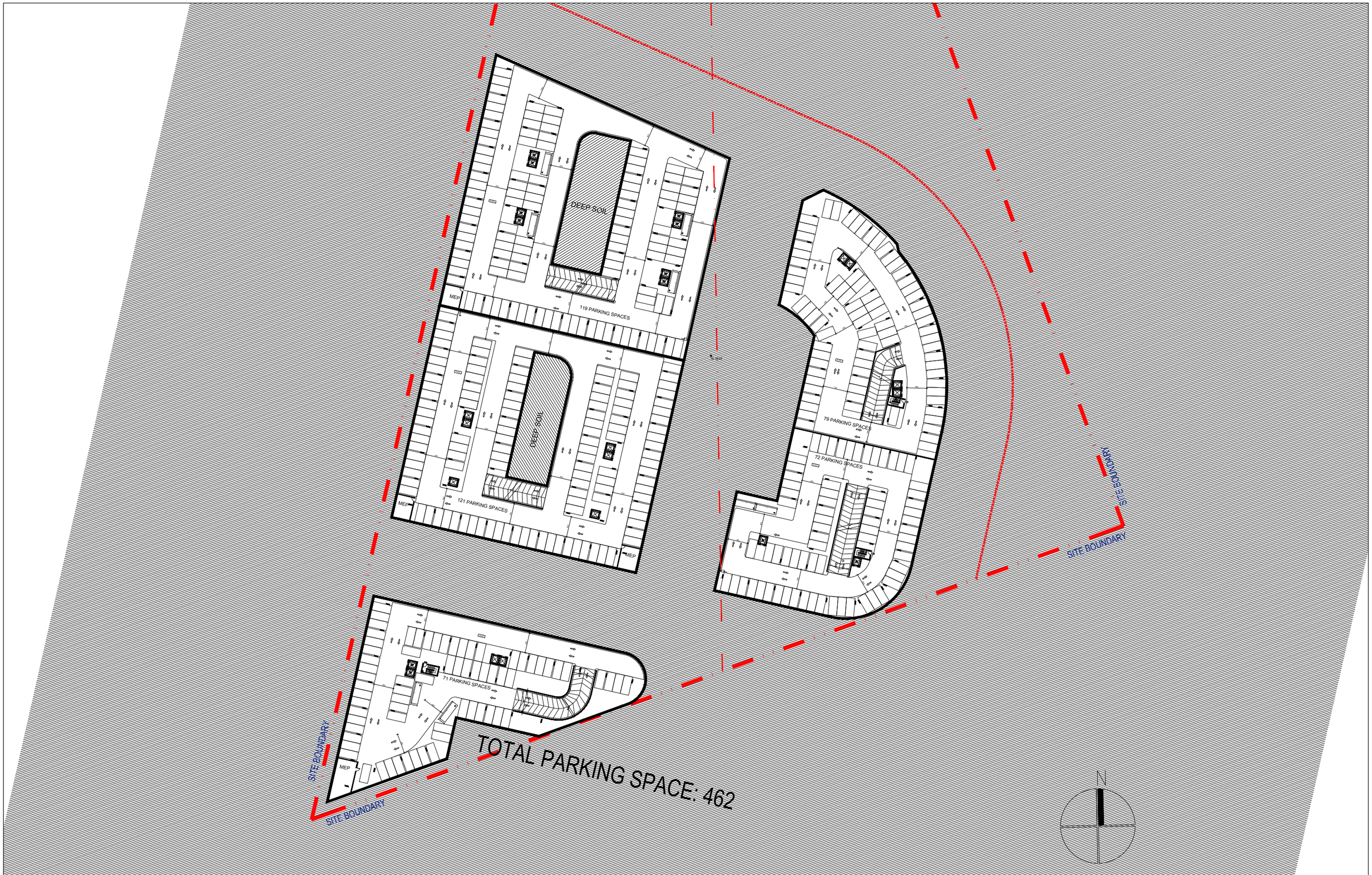
Date JUN 2020

Drawing title
BASEMENT L1 PLAN

Project no. 1008 Drawing no. CP090

Drawn TL DL

Drawing status



Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

BASEMENT L2 PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 2, 3 Horbury Close
PO Box 1678 North Ryde NSW 1670
T (02) 9805 0848
F (02) 9805 0951
E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

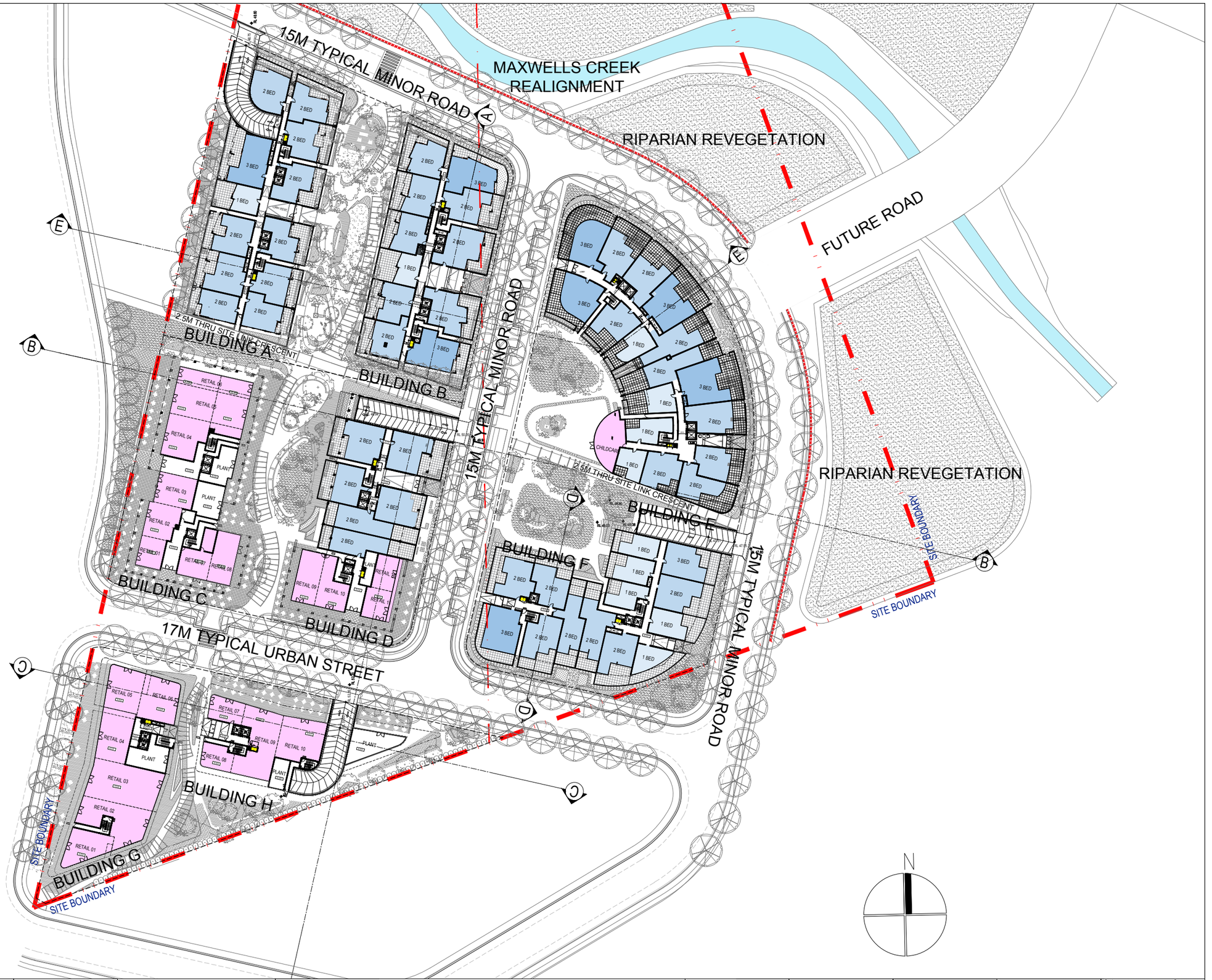
Scale 1:500 @ A1 1:1000 @ A3 DateMAR 2020
0 5 10 15 20 25
1:500 (A1)

Drawing title
BASEMENT L2 PLAN

Project no. 1008 Drawing no. CP090

Drawn TL DL

Drawing status



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Legend

DRAWING LABEL

GROUND FLOOR PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 1, 55-75 Sams Drive, Hyperdome, Qld, 4556
T (07) 5448 0955
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E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020
0 5 10 15 20 25

Drawing title
GROUND FLOOR PLAN

Project no. 1008 Drawing no. CP000

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

L1 FLOOR PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 2
15-17 Young Street
Cronulla NSW 2230
P 9523 4666 (NSW)
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Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3
Date JUN 2020
0 5 10 15 20 25

Drawing title
L1 FLOOR PLAN

Project no. 1008 Drawing no. CP001
Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

L2 FLOOR PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
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Woolloomooloo NSW 2011
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E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020
0 5 10 15 20 25
Drawing title
L2 FLOOR PLAN
Project no. 1008 Drawing no. CP001
Drawn TL, DL
Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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Legend

DRAWING LABEL

L3 FLOOR PLAN

Client

Super Star Holding Group Pty. Ltd.

Architects

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15-17 Young Street
Cronulla NSW 2230
P 9523 4666 (NSW)
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E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3

Date JUN 2020

Drawing title

L3 FLOOR PLAN

Project no. 1008 Drawing no. CP001

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

L4 FLOOR PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
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15-19 Bowen Street
Spring Hill QLD 4000
T (07) 3831 3588
F (07) 3832 3552
E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020
0 5 10 15 20 25

Drawing title
L4 FLOOR PLAN

Project no. 1008 Drawing no. CP002
Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

L5 FLOOR PLAN

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs — Level 2, 15-19 Bowen Street, Spring Hill QLD 4000, T (07) 3831 3288, F (07) 3832 3288, E info@tonyowen.com.au

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

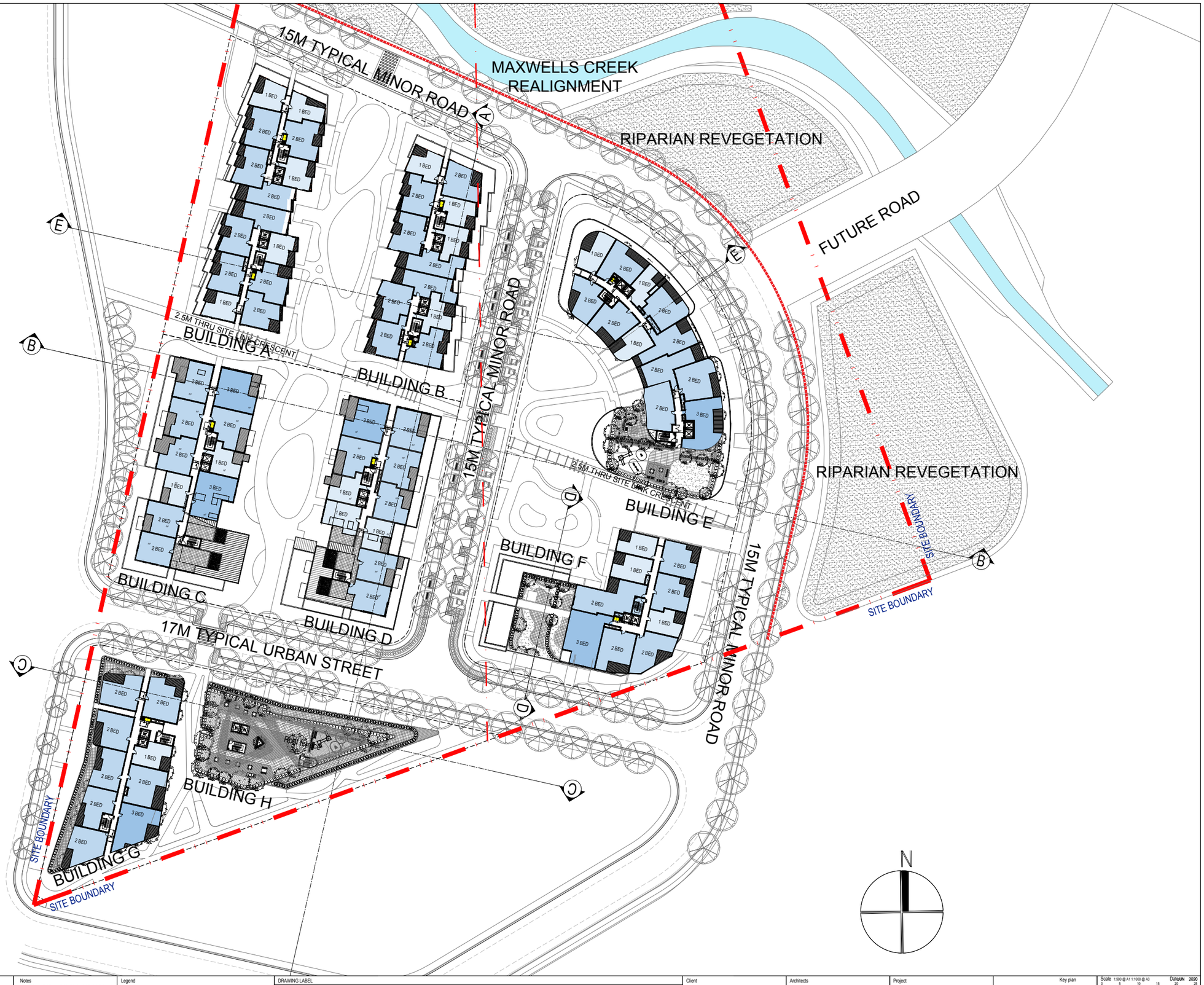
Scale 1:500 @ A1 1:1000 @ A3 — Date JUN 2020

Drawing title: L5 FLOOR PLAN

Project no. 1008 — Drawing no. CP002

Drawn TL, DL

Drawing status



Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

L6 FLOOR PLAN

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 2
19-21 Boom Street
Potts Point NSW 2011
T 9332 3000
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E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3

Date JUN 2020

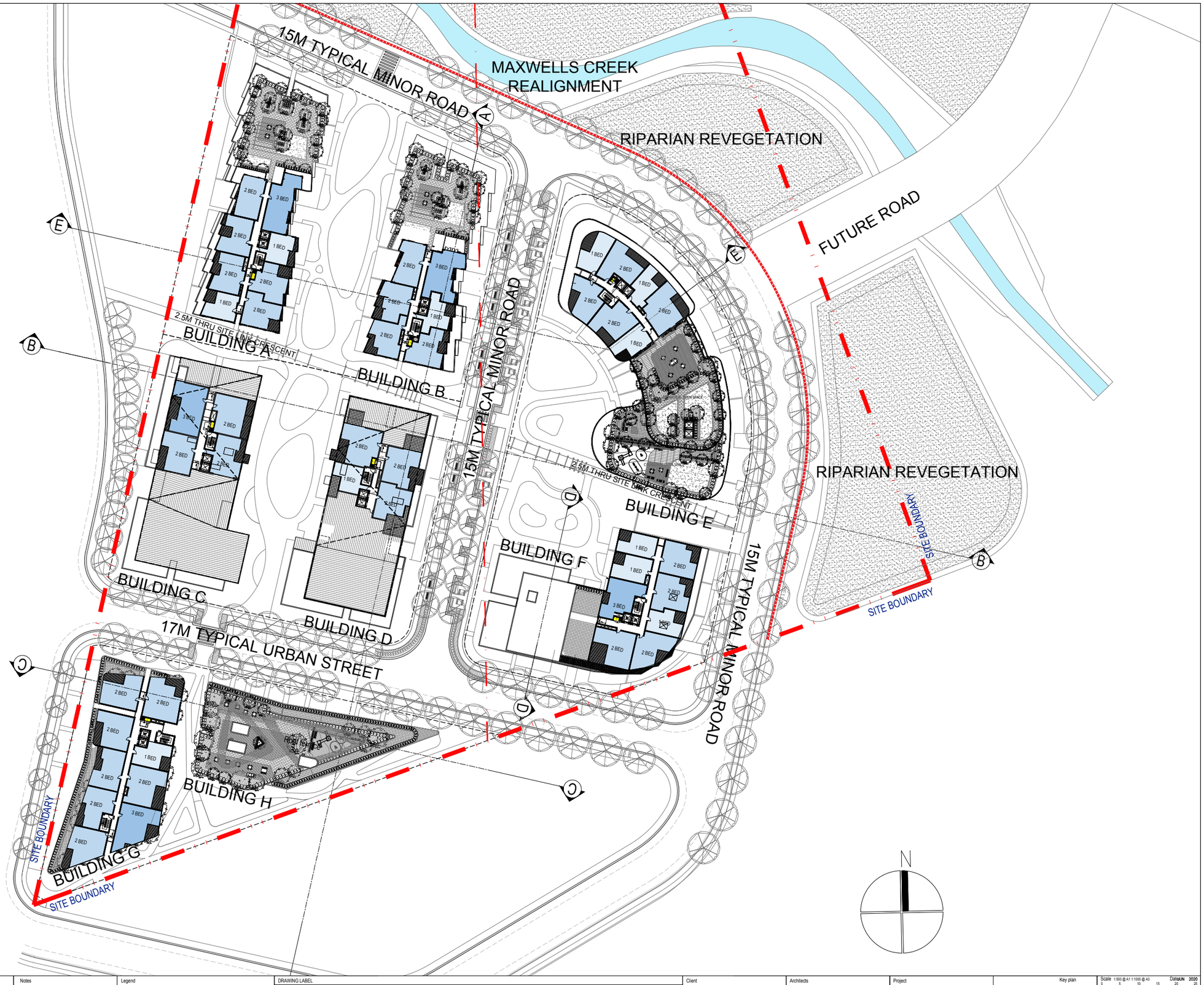
Drawing title

L6 FLOOR PLAN

Project no. 1008 Drawing no. CP002

Drawn TL, DL

Drawing status



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DRAWING LABEL

L7 FLOOR PLAN

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 2
19-21 Queen Street
Chatswood NSW 2067
P 9123 4000 (NSW)
P 9123 4000 (VIC)
E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

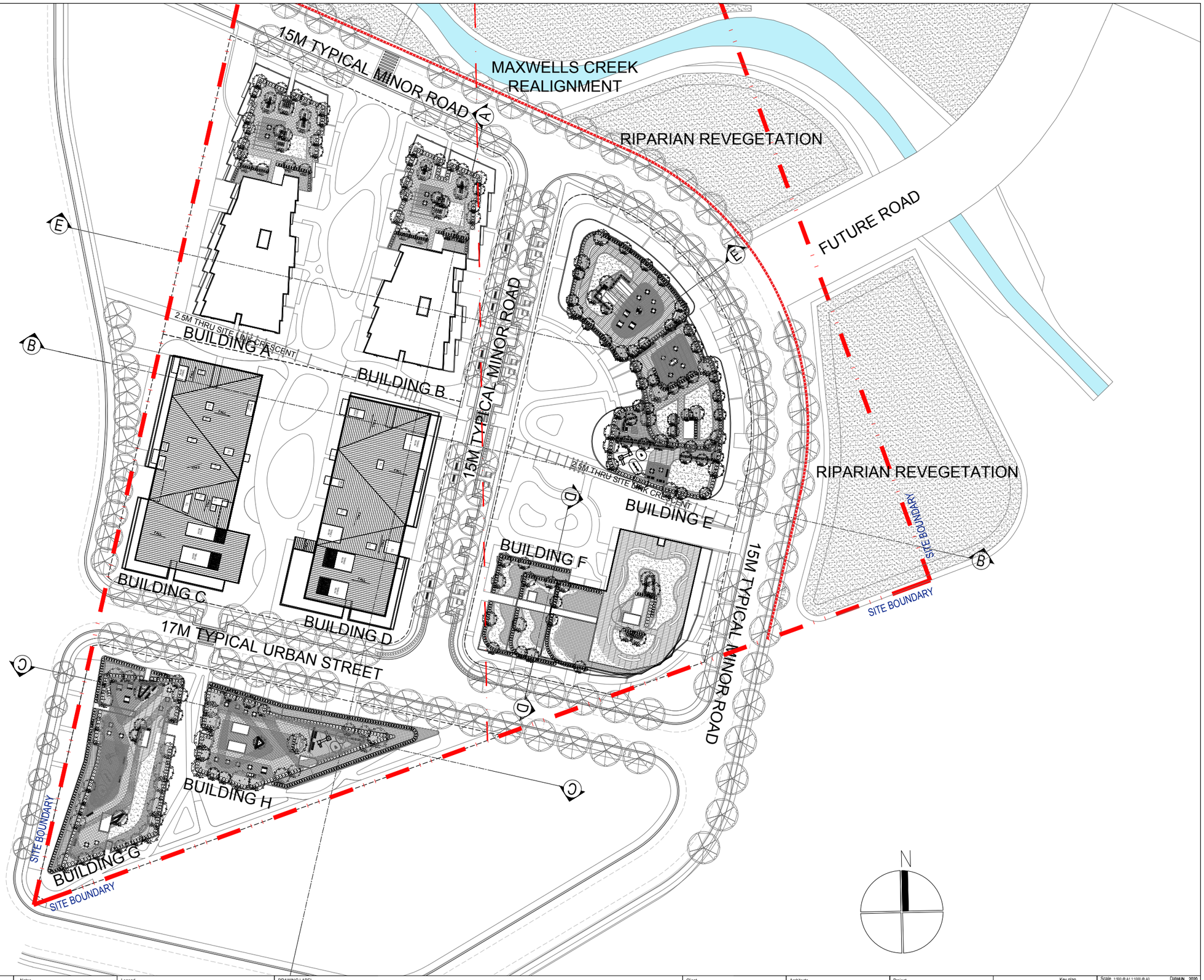
Drawing title

L7 FLOOR PLAN

Project no. 1008 Drawing no. CP004

Drawn TL, DL

Drawing status



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DRAWING LABEL

ROOF PLAN

Client
Super Star Holding Group Pty. Ltd.

Architects
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Level 2
15-17 Young Street
Cronulla NSW 2230
P 9523 4666
F 9523 4699
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Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3
0 5 10 15 20 25

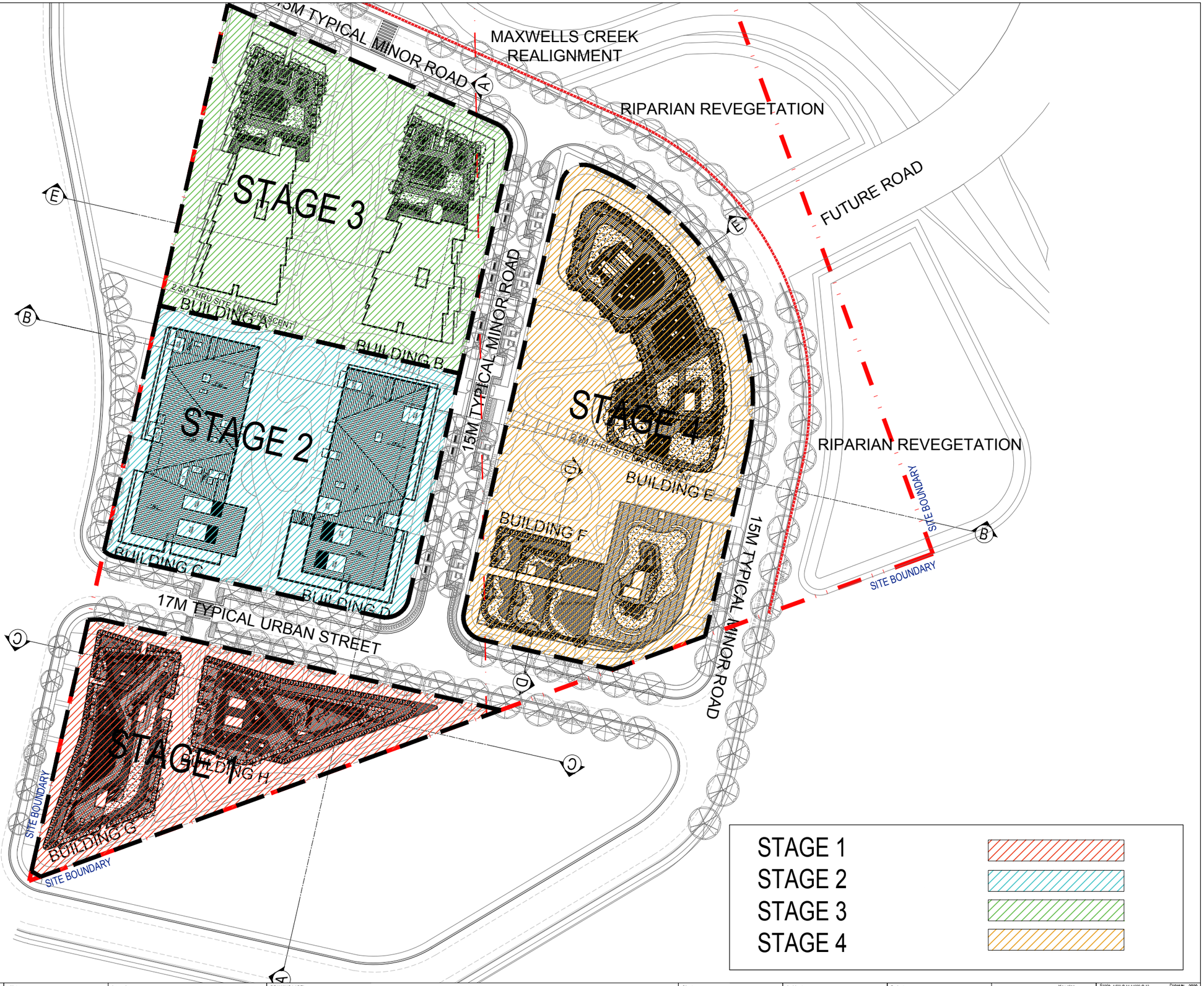
Date JUN 2020

Drawing title
ROOF PLAN

Project no. 1008 Drawing no. CP004

Drawn TL, DL

Drawing status



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DRAWING LABEL

STAGING PLAN DIAGRAM

Client
Super Star Holding Group Pty. Ltd.

Architects
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Dapto NSW 2530
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F 4262 3668
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Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

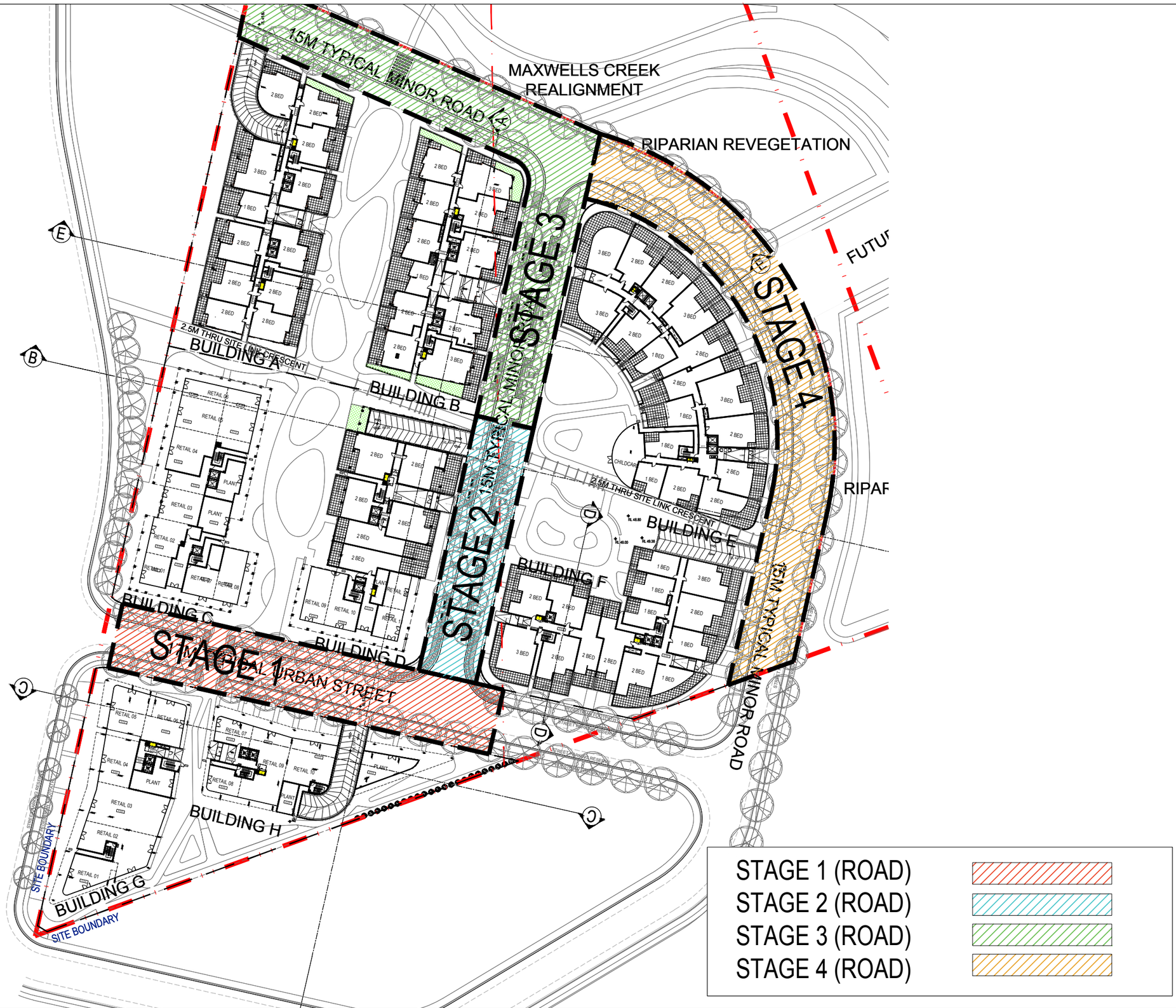
Key plan

Scale 1:500 @ A1 1:1000 @ A3
Date JUN 2020

Drawing title
STAGING PLAN

Project no. 1008
Drawing no. CP000
Drawn TL DL

Drawing status



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DRAWING LABEL

STAGING PLAN DIAGRAM

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Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3
Date JUN 2020

Drawing title
STAGING PLAN

Project no. 1008 Drawing no. CP000
Drawn TL, DL

Drawing status

DEVELOPMENT SITE AREA (TOTAL)	- 42919.4 SQM
GREEN SPACE (INCLUDING MAXWELLS PARK)	- 17886.9 SQM - 41.7%

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

GREEN SPACE CALCULATION

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 2
79-81 Dunn Street
Rosebery NSW 2018
T (02) 9699 3855
F (02) 9699 3914
E info@tonyowen.com.au

Project
EDMONDSON PARK

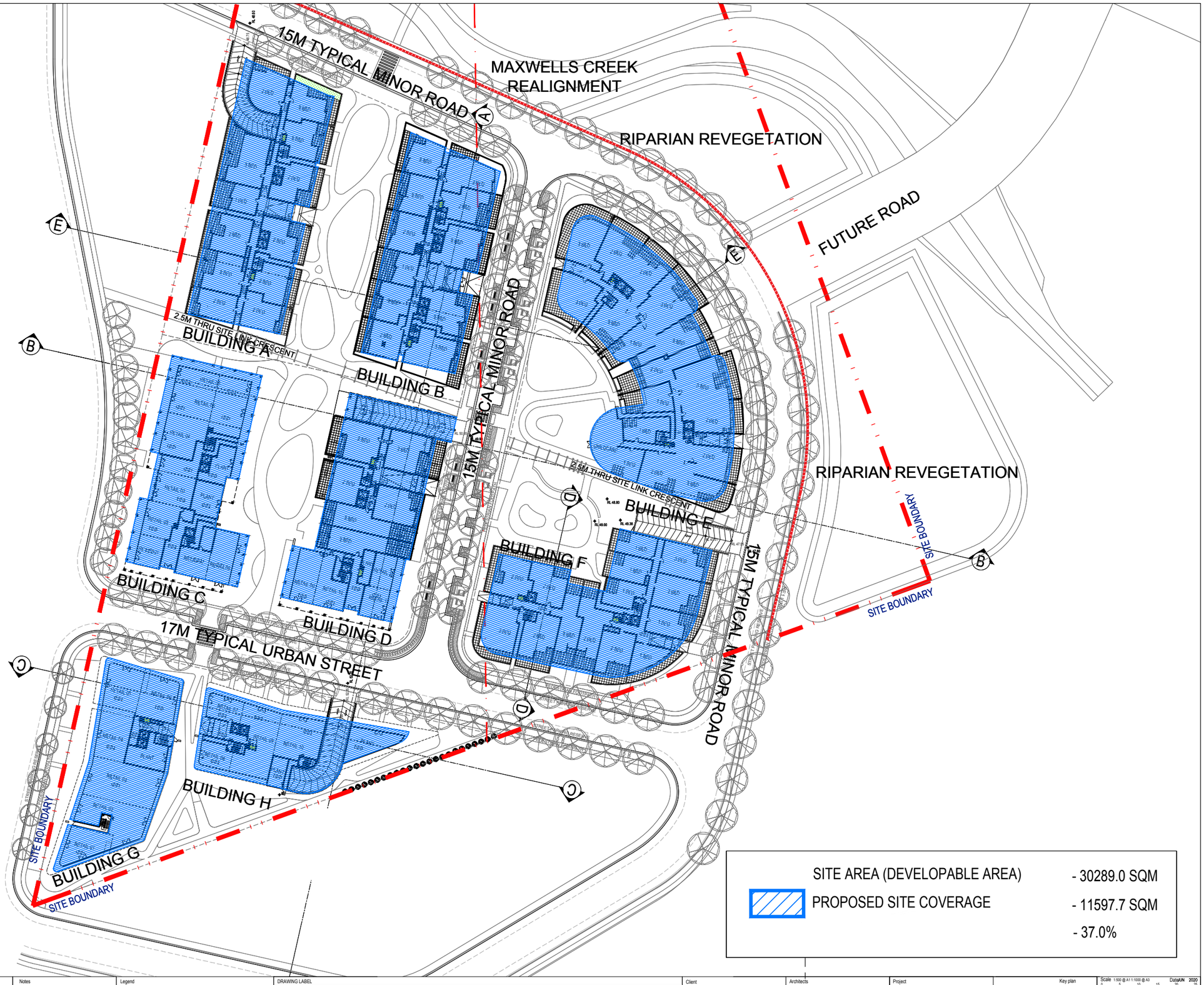
Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020
0 5 10 15 20 25

Drawing title
GREEN SPACE CALCULATION

Project no. 1008 Drawing no. CP000
Drawn TL DL
Drawing status



SITE AREA (DEVELOPABLE AREA) - 30289.0 SQM

PROPOSED SITE COVERAGE - 11597.7 SQM

- 37.0%

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SITE COVERAGE CALCULATION

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs, Level 2, 75-77 Queen Street, Chippendale NSW 2008, T: (02) 9698 2000, F: (02) 9698 2001, E: info@tonyowen.com.au

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

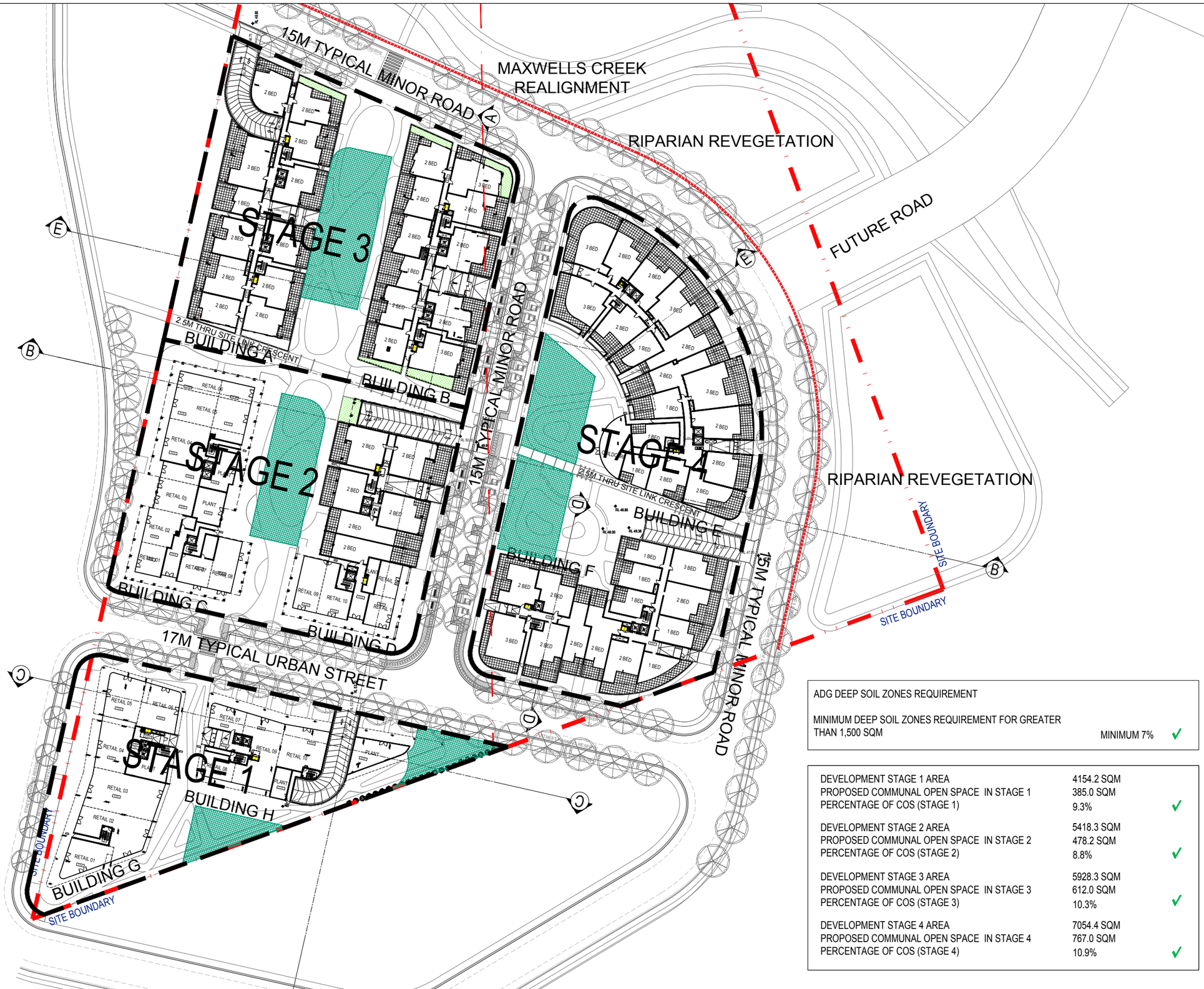
Scale: 1:500 @ A1 1:1000 @ A3 | Date: JUN 2020

Drawing title: SITE COVERAGE

Project no. 1008 | Drawing no. CP000

Drawn: TL, DL

Drawing status



ADG DEEP SOIL ZONES REQUIREMENT

MINIMUM DEEP SOIL ZONES REQUIREMENT FOR GREATER THAN 1,500 SQM	MINIMUM 7%	✓

DEVELOPMENT STAGE 1 AREA	4154.2 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 1	385.0 SQM	
PERCENTAGE OF COS (STAGE 1)	9.3%	✓
DEVELOPMENT STAGE 2 AREA	5418.3 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 2	478.2 SQM	
PERCENTAGE OF COS (STAGE 2)	8.8%	✓
DEVELOPMENT STAGE 3 AREA	5928.3 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 3	612.0 SQM	
PERCENTAGE OF COS (STAGE 3)	10.3%	✓
DEVELOPMENT STAGE 4 AREA	7054.4 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 4	767.0 SQM	
PERCENTAGE OF COS (STAGE 4)	10.9%	✓

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

DEEP SOIL CALCULATION

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

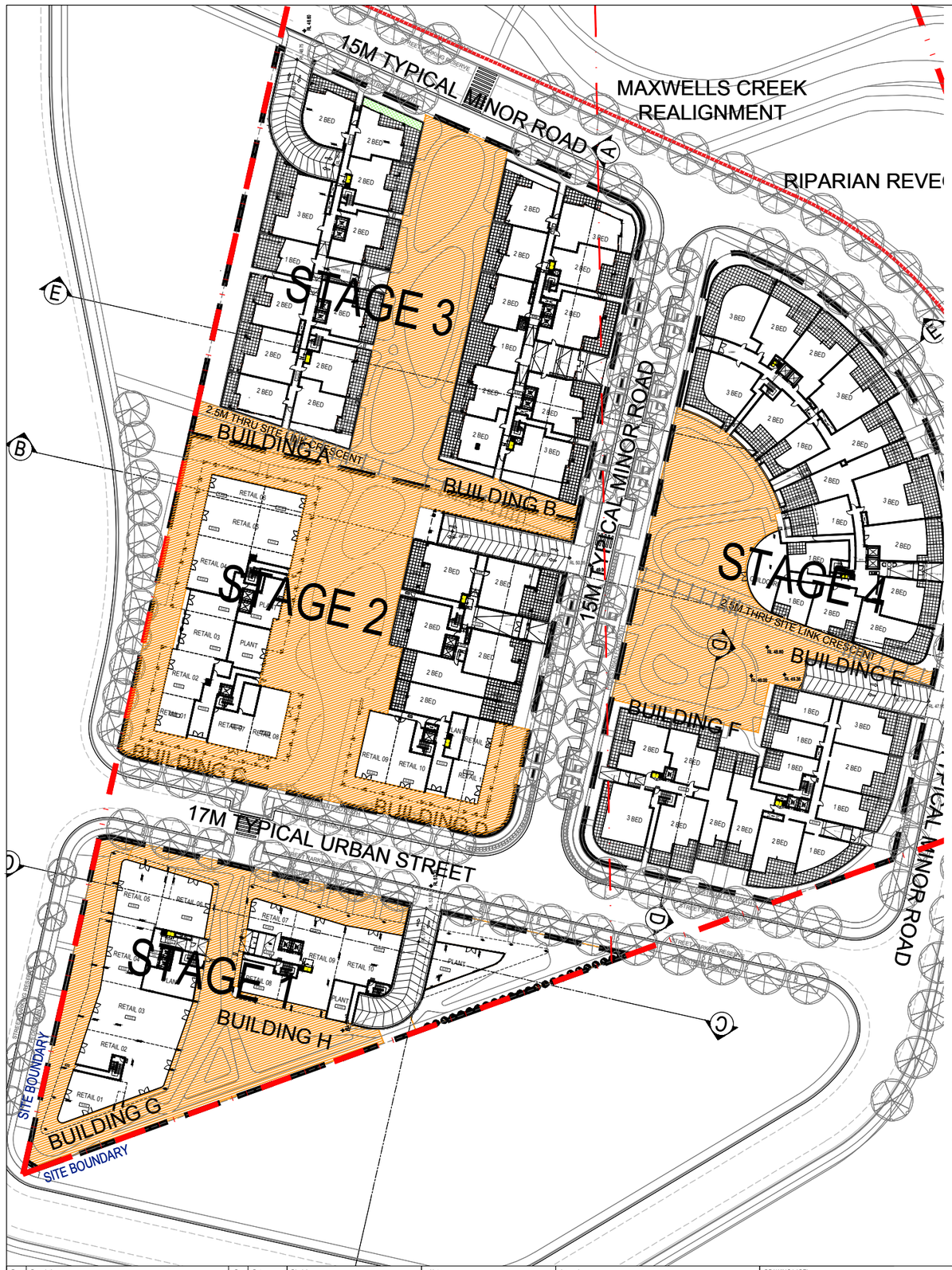
Scale 1:500 @ A1 1:1000 @ A3 | Date JUN 2020

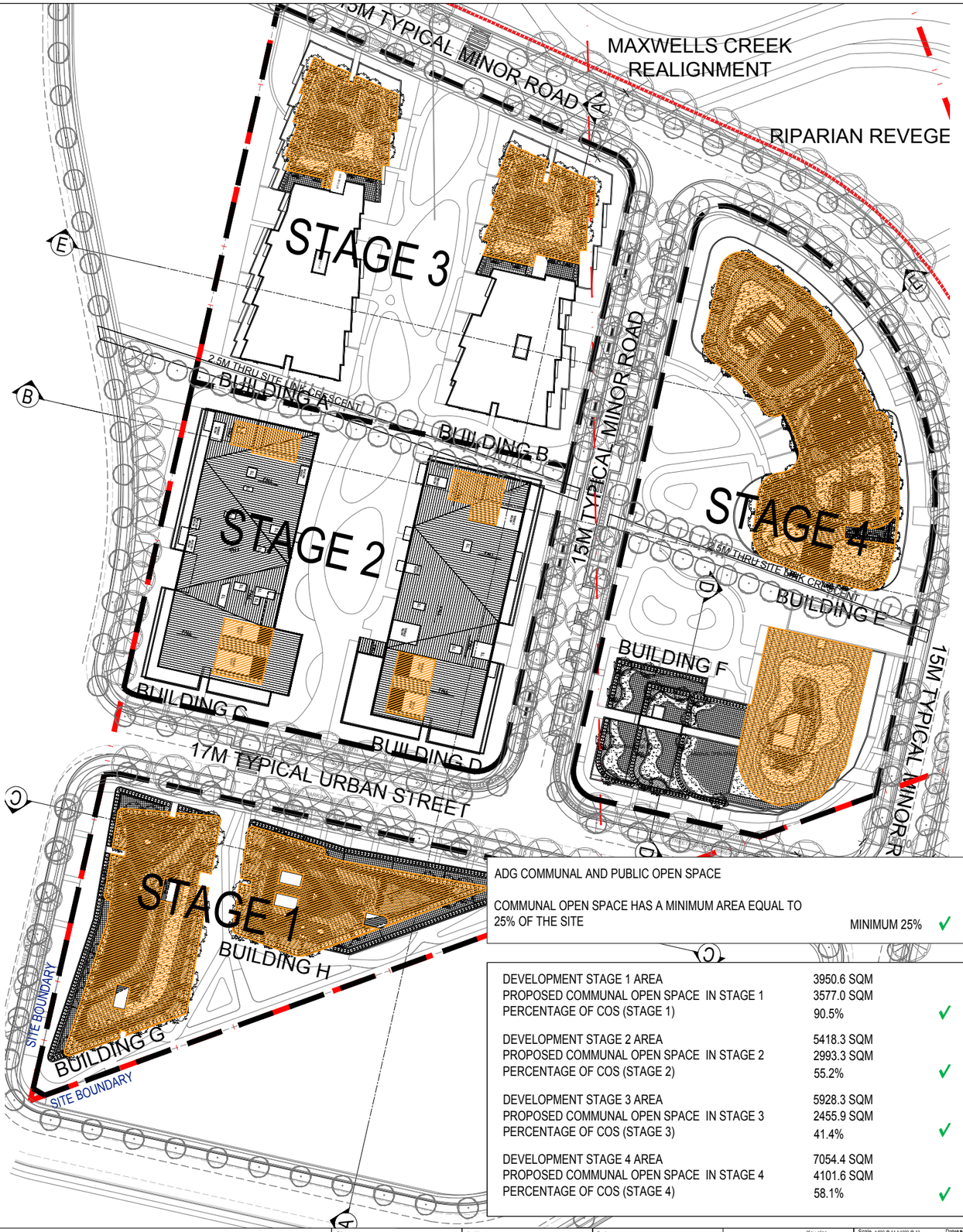
Drawing title: DEEP SOIL CALCULATION

Project no. 1008 | Drawing no. CP000

Drawn TL DL

Drawing status





ADG COMMUNAL AND PUBLIC OPEN SPACE

COMMUNAL OPEN SPACE HAS A MINIMUM AREA EQUAL TO 25% OF THE SITE — MINIMUM 25% ✓

DEVELOPMENT STAGE 1 AREA	3950.6 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 1	3577.0 SQM	
PERCENTAGE OF COS (STAGE 1)	90.5%	✓
DEVELOPMENT STAGE 2 AREA	5418.3 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 2	2993.3 SQM	
PERCENTAGE OF COS (STAGE 2)	55.2%	✓
DEVELOPMENT STAGE 3 AREA	5928.3 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 3	2455.9 SQM	
PERCENTAGE OF COS (STAGE 3)	41.4%	✓
DEVELOPMENT STAGE 4 AREA	7054.4 SQM	
PROPOSED COMMUNAL OPEN SPACE IN STAGE 4	4101.6 SQM	
PERCENTAGE OF COS (STAGE 4)	58.1%	✓

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

COMMUNAL OPEN SPACE COMPLIANCE DIAGRAM

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs
Unit 4, Suite 2004, 20 Lexington Drive, Bella Vista NSW 2153
T 8722 0600 (NSW)
T 8722 0600 (VIC)
F 8722 0601
E info@tonyowen.com.au

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 — Date JUN 2020

Drawing title: COS CALCULATION

Project no. 1008 — Drawing no. CP000

Drawn TL DL

Drawing status

ADG COMMUNAL AND PUBLIC OPEN SPACE

DEVELOPMENTS ACHIEVE A MINIMUM OF 50% DIRECT SUNLIGHT TO THE PRINCIPAL USABLE PART OF THE COMMUNAL OPEN SPACE FOR A MINIMUM OF 2 HOURS BETWEEN 9AM AND 3PM ON21 JUNE (MID WINTER) — MINIMUM 50% ✓

COMMUNAL OPEN SPACE IN STAGE 1	3596.4 SQM	
COMMUNAL OPEN SPACE IN STAGE 1 with >2hrs SOLAR ACCESS	2290.0 SQM	
PERCENTAGE OF COMPLIANT SOLAR ACCESS COS AREA(STAGE 1)	63.7%	✓
COMMUNAL OPEN SPACE IN STAGE 2	2520.0 SQM	
COMMUNAL OPEN SPACE IN STAGE 2 with >2hrs SOLAR ACCESS	1309.6 SQM	
PERCENTAGE OF COMPLIANT SOLAR ACCESS COS AREA(STAGE 2)	52.0%	✓
COMMUNAL OPEN SPACE IN STAGE 3	2408.0 SQM	
COMMUNAL OPEN SPACE IN STAGE 3 with >2hrs SOLAR ACCESS	1872.4 SQM	
PERCENTAGE OF COMPLIANT SOLAR ACCESS COS AREA(STAGE 3)	77.8%	✓
COMMUNAL OPEN SPACE IN STAGE 4	4101.6 SQM	
COMMUNAL OPEN SPACE IN STAGE 4 with >2hrs SOLAR ACCESS	3392.8 SQM	
PERCENTAGE OF COMPLIANT SOLAR ACCESS COS AREA(STAGE 4)	82.7%	✓

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

COMMUNAL OPEN SPACE 2HR SOLAR ACCESS COMPLIANCE DIAGRAM

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs — Level 2, 2-4 Lyon Park Road, Macquarie Park NSW 2113, T (02) 9889 3855, F (02) 9889 3915, E info@tonyowen.com.au

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

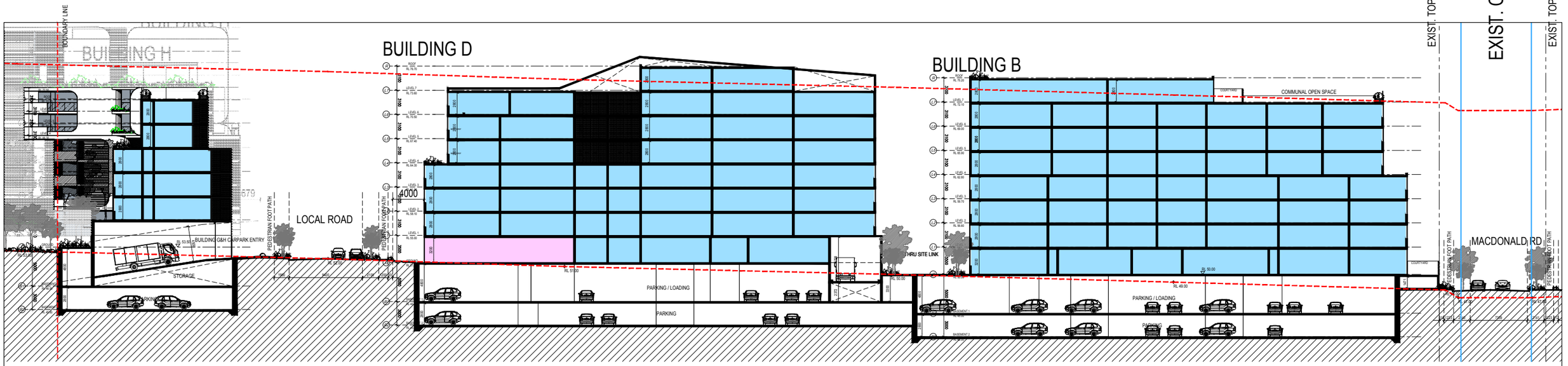
Scale 1:500 @ A1 1:1000 @ A3 — DataMAN 2020

Drawing title: COS CALCULATION

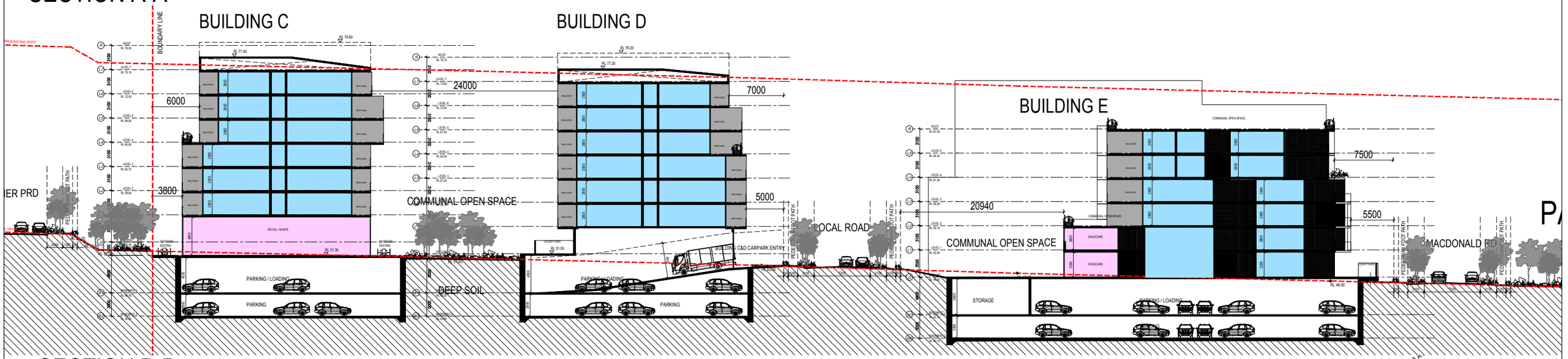
Project no. 1008 — Drawing no. CP000

Drawn TL, DL

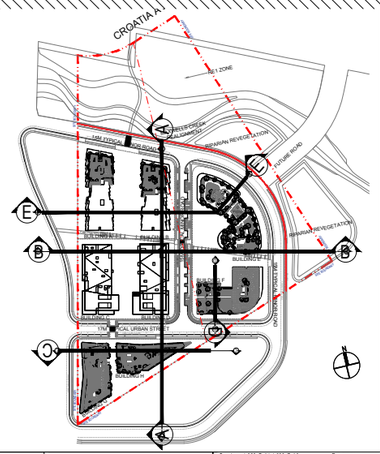
Drawing status



SECTION A-A



SECTION B-B



Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SITE SECTIONS

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 2
75-79 Myrtle Street
Chippendale NSW 2008
T (02) 9698 2555
F (02) 9698 2556
E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

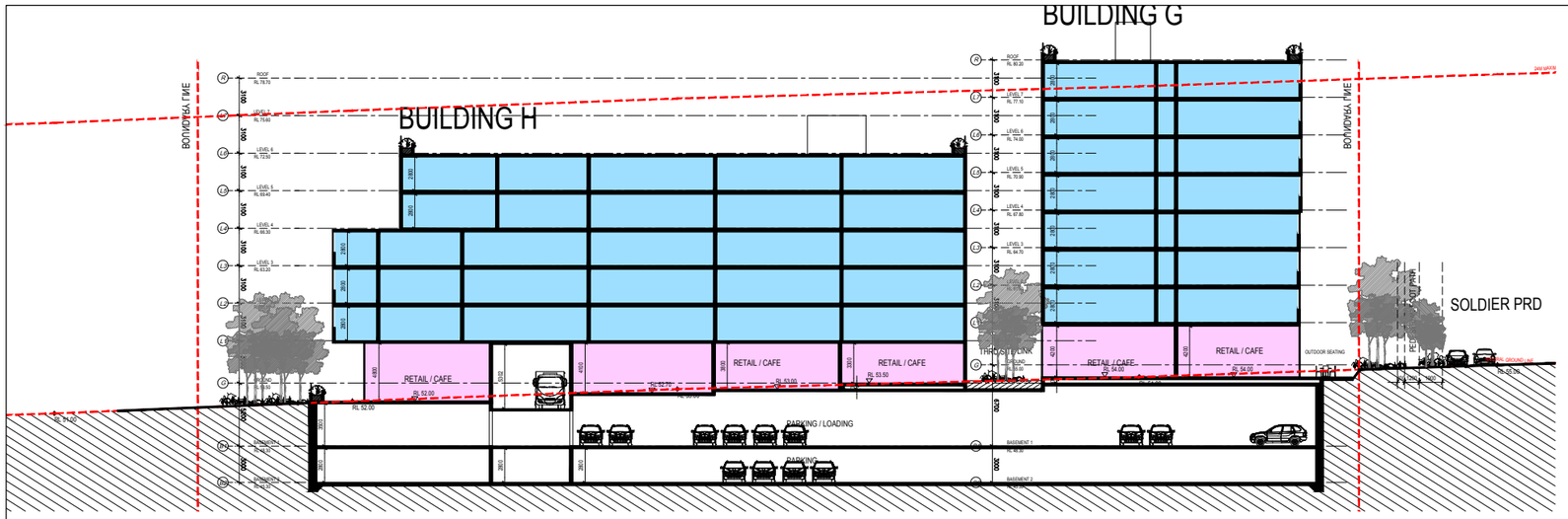
Key plan

Scale 1:300 @ A1 1:600 @ A3
Date JUN 2020

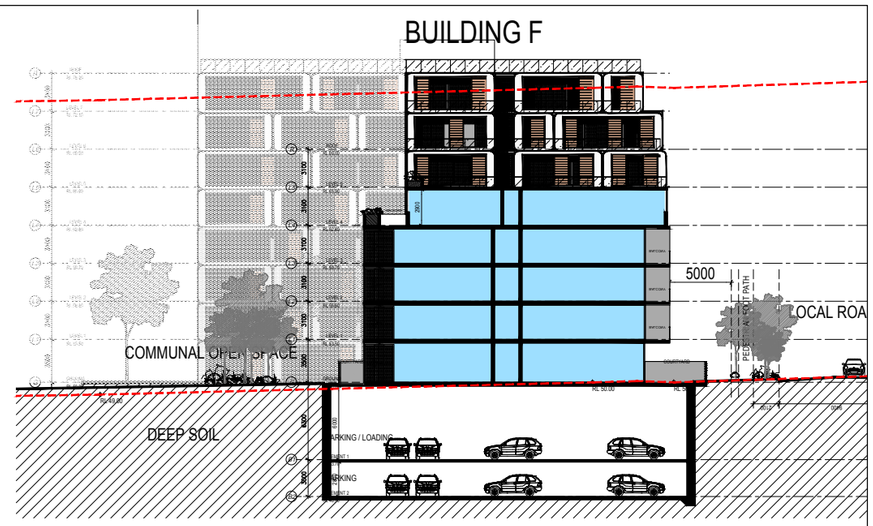
Drawing title
SITE SECTIONS

Project no. 1008 Drawing no. A300
Drawn TL, DL

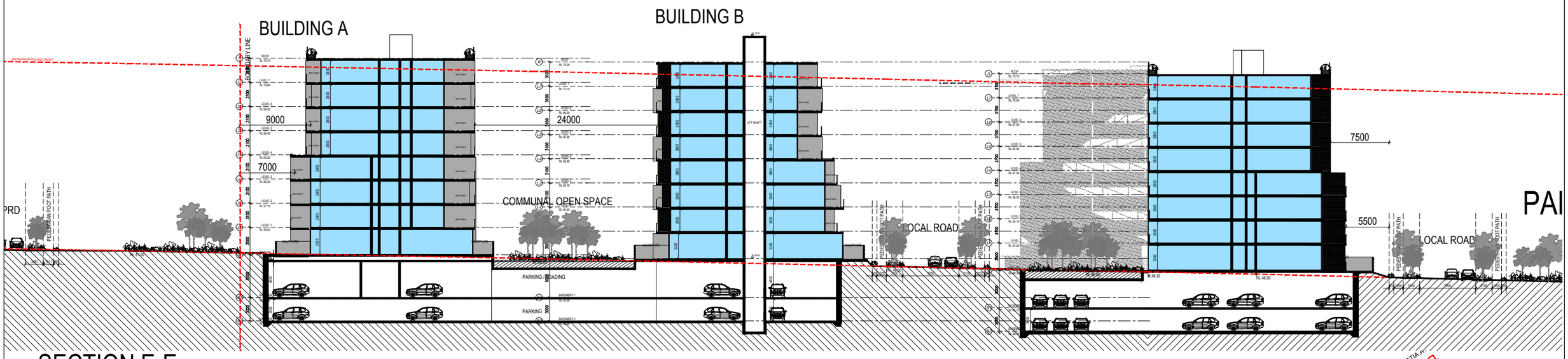
Drawing status



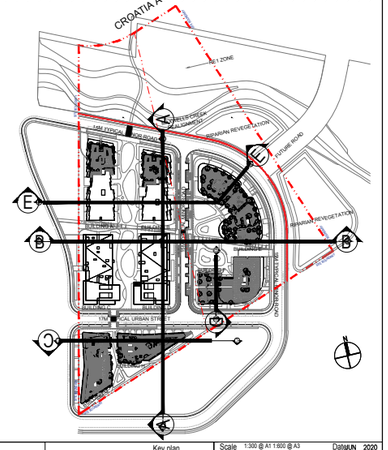
SECTION C-C



SECTION D-D



SECTION E-E



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DRAWING LABEL

SITE SECTIONS

Client
Super Star Holding Group Pty. Ltd.

Architects
tony owen ptnrs
Level 2
15-19 Bowen Street
Spring Hill NSW 2000
T (02) 9698 2555
F (02) 9698 2556
E info@tonyowen.com.au

Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:300 @ A1 1:600 @ A3 Date JUN 2020
0 5 10 15 20 25

Drawing title
SITE SECTIONS

Project no. 1008 Drawing no. A300
Drawn TL, DL

Drawing status

9AM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SOLAR STUDY DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 2
82-86 Queen Street
Campbelltown NSW 2560
T: 8332 9600
F: 8332 9699
E: tonyowen@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date/JUN 2020

Drawing title
SOLAR DIAGRAM

Project no. 1008 Drawing no. S001

Drawn TL,DL

Drawing status

10AM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SOLAR STUDY DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 7
26 College Street
Sydney NSW 2000
T (02) 9356 2000
F (02) 9356 2010
E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

Drawing title

SOLAR DIAGRAM

Project no. 1008 Drawing no. S002

Drawn TL, DL

Drawing status

11AM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

SOLAR STUDY DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Level 3
13-15 Green Street
Ultimo NSW 2007
T 9552 4066
F 9552 4088
E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Dated JUN 2020

Drawing title

SOLAR DIAGRAM

Project no. 1008 Drawing no. S003

Drawn TL, DL

Drawing status

12PM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SOLAR STUDY DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
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E tony@owen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

Drawing title

SOLAR DIAGRAM

Project no. 1008 Drawing no. S004

Drawn TL, DL

Drawing status

1PM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

SOLAR STUDY DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

Drawing title SOLAR DIAGRAM

Project no. 1008 Drawing no. S005

Drawn TL, DL

Drawing status

2PM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

SOLAR STUDY DIAGRAM

Client
Super Star Holding Group Pty. Ltd.

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Project
EDMONDSON PARK

Project address
164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

Drawing title
SOLAR DIAGRAM

Project no. 1008 Drawing no. S006

Drawn TL, DL

Drawing status

3PM @ JUNE 21ST

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

SOLAR STUDY DIAGRAM

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date/JUN 2020

Drawing title

SOLAR DIAGRAM

Project no. 1008 Drawing no. S007

Drawn TL, DL

Drawing status

SEPP65 Requirement: 70% of units to achieve min. 2hrs solar access (476 UNITS)

	TOTAL UNITS	REQUIRED. 70%	COMPLIANT	
BUILDING A	104	73	90	STAGE 3
BUILDING B	89	63	69	
BUILDING C	77	54	57	STAGE 2
BUILDING D	83	58	58	
BUILDING E	121	85	85	STAGE 4
BUILDING F	97	68	68	
BUILDING G	63	45	47	STAGE 1
BUILDING H	46	33	31	

	TOTAL UNITS	REQUIRED. 70%	COMPLIANT	%	
STAGE 3:	193	136	159	82.4%	✓
STAGE 2:	163	112	115	70.6%	✓
STAGE 4:	217	153	153	70.5%	✓
STAGE 1:	109	78	78	70.0%	✓

SOLAR ACCESS:

SEPP65 Requirement: 70% of units to achieve min. 2hrs solar access (505 UNITS)

	TOTAL UNITS	REQUIRED. 70%	COMPLIANT	%	
TOTAL	680	476	505	74.4%	✓

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

SOLAR STUDY DIAGRAM

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs — Level 2, 12-14 Dawn Street, Drummoyne, NSW 2046, T: (02) 9181 5972, F: (02) 9181 5973, E: tonyowen@tonyowen.com.au

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

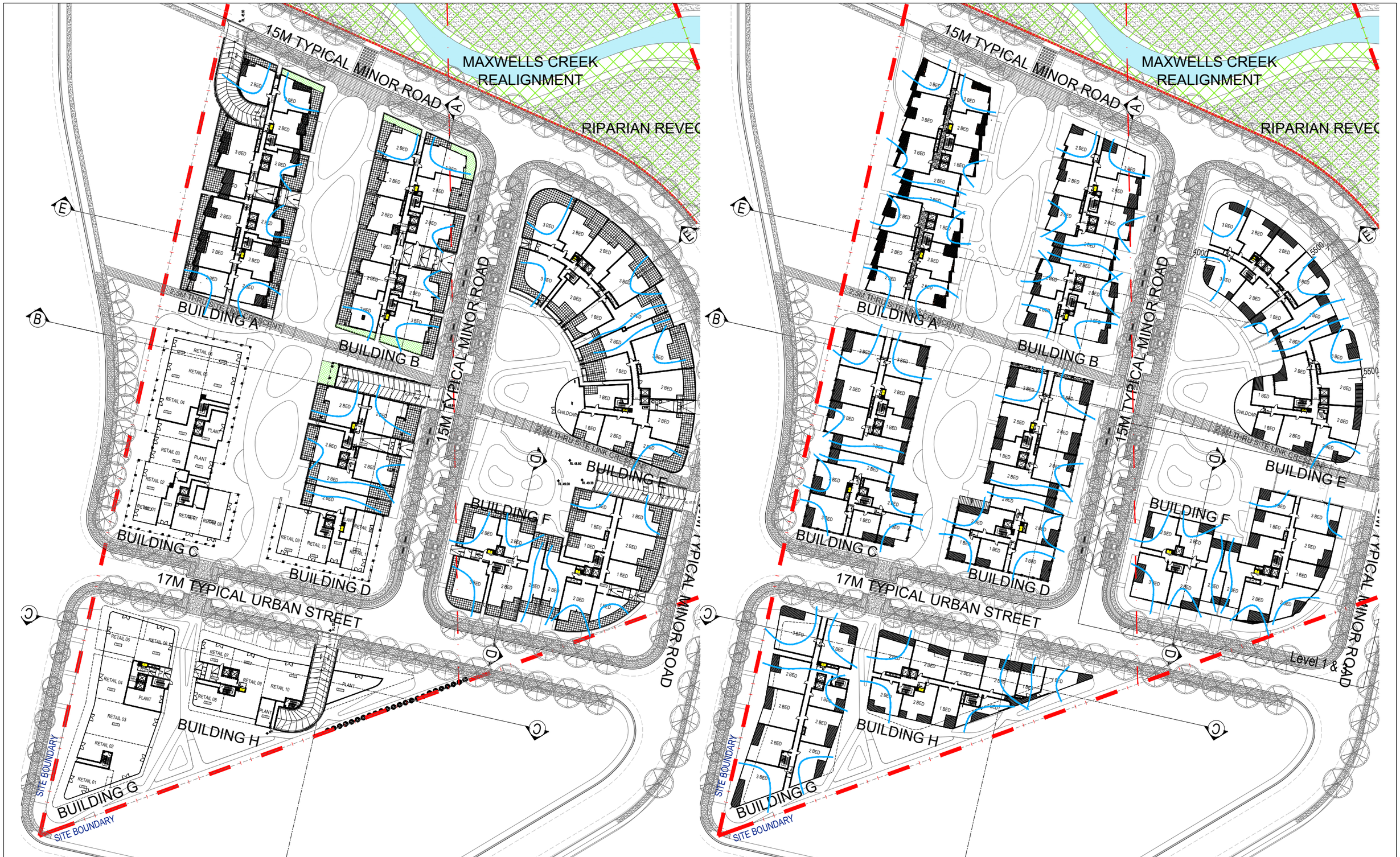
Scale: 1:500 @ A1 1:1000 @ A3 | Date: JUN 2020

Drawing title: SOLAR DIAGRAM

Project no. 1008 | Drawing no. S008

Drawn TL, DL

Drawing status



GROUND FLOOR

L1

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

VENTILATION DIAGRAM

Client: Super Star Holding Group Pty. Ltd.

Architects
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Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500@A1 1:1000 @ A3 — Date JUN 2020

Drawing title: VENTILATION DIAGRAM

Project no. 1008 — Drawing no. V001

Drawn TL, DL

Drawing status

LEVEL 2

LEVEL 3

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

VENTILATION DIAGRAM

Client

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500@A1 1:1000@A3 Date JUN 2020

Drawing title
VENTILATION DIAGRAM

Project no. 1008 Drawing no. V002

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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Legend

DRAWING LABEL

VENTILATION DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:600@A1 1:1200@A3 Date JUN 2020

Drawing title
VENTILATION DIAGRAM

Project no. 1008 Drawing no. V003

Drawn TL, DL

Drawing status

LEVEL 6

LEVEL 7

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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DRAWING LABEL

VENTILATION DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

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T (02) 9698 3900
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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:1000@A1 1:2000@A3

Date JUN 2020

Drawing title

VENTILATION DIAGRAM

Project no. 1008 Drawing no. V004

Drawn TL, DL

Drawing status

SEPP65 Requirement: 60% cross ventilated (78.6 UNITS)

	TOTAL UNITS	REQUIRED. 60%	COMPLIANT
BUILDING A	104	63	71
BUILDING B	89	54	64
BUILDING C	77	47	55
BUILDING D	83	50	61
BUILDING E	121	73	68
BUILDING F	97	59	62
BUILDING G	63	38	42
BUILDING H	46	28	30

	TOTAL UNITS	REQUIRED. 60%	COMPLIANT	%	
STAGE 1:	193	116	135	70.0%	✓
STAGE 2:	160	96	116	72.5%	✓
STAGE 3:	218	130	130	60.0%	✓
STAGE 4:	109	66	72	66.0%	✓

CROSS VENTILATION:

SEPP65 Requirement: 60% cross ventilated

	TOTAL UNITS	REQUIRED. 60%	COMPLIANT	%
TOTAL	680	408	453	66.7%

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

VENTILATION DIAGRAM

Client: Super Star Holding Group Pty. Ltd.

Architects: tony owen ptnrs

Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

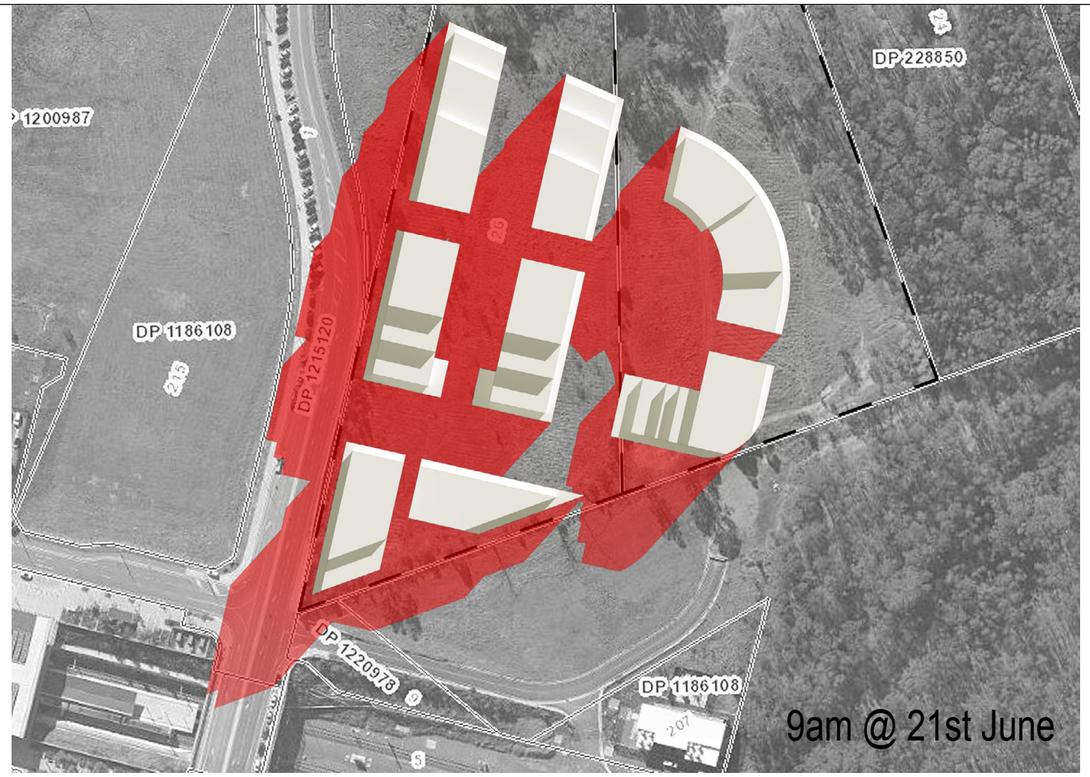
Scale 1:500@A1 1:1000 @ A3 — Date JUN 2020

Drawing title: VENTILATION DIAGRAM

Project no. 1008 Drawing no. V004

Drawn TL, DL

Drawing status



Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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Legend

DRAWING LABEL

SHADOW DIAGRAM

Client

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 DATE/JUN 2020

0 5 10 15 20 25

Drawing title

SHADOW DIAGRAM

Project no. 1008 Drawing no. S000

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

SHADOW DIAGRAM

Client

Super Star Holding Group Pty. Ltd.

Architects

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E tonyowenpartners.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale

Date **JUN 2020**

Drawing title

SHADOW DIAGRAM

Project no. 1008 Drawing no. S000

Drawn TL, DL

Drawing status

AD-00 - Schedule of Areas
Area Summary Compliant Scheme

Date **9/24/2020**

Project: Edmondson Park
Project Address: 164-170 Croatia Avenue, Edmondson Park
Project No. **1008**

Developable Site Area: **30289.00 m²**
Site Area: 43733.00 m²
Consent Authority: Liverpool City Council

Building A

	GFA		UNITS
Ground (Retail)	0.0	m²	
Ground (Residential)	1134.1	m²	**12**
Level 1	1153.7	m²	**14**
Level 2	1153.7	m²	**14**
Level 3	1153.7	m²	**14**
Level 4	1004.7	m²	**14**
Level 5	1002.5	m²	**14**
Level 6	876.9	m²	**14**
Level 7	626.8	m²	**8**
Total	**8106.1**	m²	**104**

Building B

	GFA		UNITS
Ground (Retail)	0.0	m²	
Ground (Residential)	1045.8	m²	**11**
Level 1	971.0	m²	**12**
Level 2	971.0	m²	**12**
Level 3	971.0	m²	**12**
Level 4	859.1	m²	**12**
Level 5	855.8	m²	**12**
Level 6	734.7	m²	**12**
Level 7	486.1	m²	**6**
Ia	**6894.5**	m²	**89**

Building C

	GFA		UNITS
Ground(Retail)	779.0	m²	
Ground(Residential)	105.1	m²	
Level 1	1153.7	m²	**13**
Level 2	1153.7	m²	**13**
Level 3	1153.7	m²	**13**
Level 4	1001.8	m²	**12**
Level 5	1001.8	m²	**12**
Level 6	840.6	m²	**10**
Level 7	385.4	m²	**4**
Total	**7574.8**	m²	**77**

Building D

	GFA		UNITS
Ground(Retail)	274.9	m²	
Ground(Residential)	668.0	m²	**6**
Level 1	1161.1	m²	**13**
Level 2	1161.1	m²	**13**
Level 3	1161.1	m²	**13**
Level 4	939.4	m²	**12**
Level 5	939.4	m²	**12**
Level 6	793.0	m²	**10**
Level 7	324.9	m²	**4**
Total	**7422.9**	m²	**83**

Building E

	GFA		UNITS
Ground (Childcare)	100.5	m²	
Ground (Residential)	1569.8	m²	17
Level 1	1549.5	m²	17
Level 2	1576.2	m²	17
Level 3	1576.2	m²	17
Level 4	1357.6	m²	17
Level 5	1357.6	m²	17
Level 6	992.1	m²	12
Level 7	517.8	m²	7
Total	**10597.3**	m²	**121**

Building F

	GFA		UNITS
Ground (Retail)	0.0	m²	
Ground (Residential)	1205.2	m²	14
Level 1	1219.6	m²	14
Level 2	1214.9	m²	14
Level 3	1219.6	m²	14
Level 4	1004.4	m²	12
Level 5	997.0	m²	11
Level 6	795.8	m²	9
Level 7	620.5	m²	8
Total	**8277.0**	m²	**96**

Building G

	GFA		UNITS
Ground (Retail)	763.8	m²	
Ground (Residential)	28.2	m²	
Level 1	930.9	m²	9
Level 2	930.9	m²	9
Level 3	930.9	m²	9
Level 4	790.2	m²	9
Level 5	790.2	m²	9
Level 6	788.7	m²	9
Level 7	788.7	m²	9
Total	**6742.5**	m²	**63**

Building H

	GFA		UNITS
Ground (Retail)	414.1	m²	
Ground (Residential)	30.7	m²	
Level 1	778.7	m²	10
Level 2	778.7	m²	10
Level 3	778.7	m²	10
Level 4	594.9	m²	8
Level 5	594.9	m²	8
Total	**3970.7**	m²	**46**

TOTAL

	TOT.		UNITS
Retail&CC	2332.3	m²	
BLDG_A	8106.1	m²	104
BLDG_B	6894.5	m²	89
BLDG_C	7574.8	m²	77
BLDG_D	7422.9	m²	83
BLDG_E	10597.3	m²	121
BLDG_F	8277.0	m²	96
BLDG_G	6742.5	m²	63
BLDG_H	3970.7	m²	46
TOTAL	**61918.1**	m²	**679**
Floor Space Ratio		**2.044**	**:1**

AD-01 - Unit Mix Schedule

Unit Mix Compliant Scheme

Date 9/24/2020

Project No. 1008

Project: Edmondson Park
Project Address: 164-170 Croatia Avenus, Edmondson Park

Developable Site Area **30289.00 m²**
Site Area: 43733.00 m²
Consent Authority: Liverpool City Council

BUILDING A

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground	1		10		1		0	**12**
Level 1	2		10		2			**14**
Level 2	2		11		1			**14**
Level 3	2		10		2			**14**
Level 4	5		9		0			**14**
Level 5	5		9		0			**14**
Level 6	5		9		0			**14**
Level 7	2		5		1			**8**
Total	**24**		**73**		**7**		**0**	**104**
	100%		**100%**		**100%**			
	24		**73**		**7**			
	23%		**70%**		**7%**			

BUILDING B

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground	1		8		2		0	**11**
Level 1	0		10		2			**12**
Level 2	0		10		2			**12**
Level 3	0		10		2			**12**
Level 4	4		8		0			**12**
Level 5	4		8		0			**12**
Level 6	4		8		0			**12**
Level 7	1		4		1			**6**
Total	**14**		**66**		**9**		**0**	**89**
	100%		**100%**		**100%**			
	14		**66**		**9**			
	16%		**74%**		**10%**			

BUILDING C

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground							**10**	**0**
Level 1	3		7		3			**13**
Level 2	3		7		3			**13**
Level 3	3		7		3			**13**
Level 4	2		9		1			**12**
Level 5	2		9		1			**12**
Level 6	2		6		2			**10**
Level 7	0		3		1			**4**
Total	**15**		**48**		**14**		**10**	**77**
	100%		**100%**		**100%**			
	15		**48**		**14**			
	19%		**62%**		**18%**			

BUILDING D

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground			6				**4**	**6**
Level 1	3		7		3			**13**
Level 2	3		7		3			**13**
Level 3	3		7		3			**13**
Level 4	4		7		1			**12**
Level 5	4		7		1			**12**
Level 6	3		6		1			**10**
Level 7	1		3		0			**4**
Total	**21**		**50**		**12**		**4**	**83**
	100%		**100%**		**100%**			
	21		**50**		**12**			
	25%		**60%**		**14%**			

BUILDING E

	1 bed		2 bed		3 bed		Childcare	TOTAL
Ground	4		9		4		1	**17**
Level 1	3		10		4			**17**
Level 2	3		10		4			**17**
Level 3	3		10		4			**17**
Level 4	6		11		0			**17**
Level 5	6		11		0			**17**
Level 6	3		8		1			**12**
Level 7	3		4		0			**7**
Total	**31**		**73**		**17**		**1**	**121**
	100%		**100%**		**100%**			
	31		**73**		**17**			
	26%		**60%**		**14%**			

BUILDING F

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground	5		8		1		0	**14**
Level 1	3		9		2			**14**
Level 2	3		10		1			**14**
Level 3	3		9		2			**14**
Level 4	3		8		1			**12**
Level 5	3		8		1			**12**
Level 6	3		4		2			**10**
Level 7	3		5		0			**8**
Total	**26**		**61**		**10**		**0**	**98**
	100%		**100%**		**100%**			
	26		**61**		**10**			
	27%		**62%**		**10%**			

BUILDING G

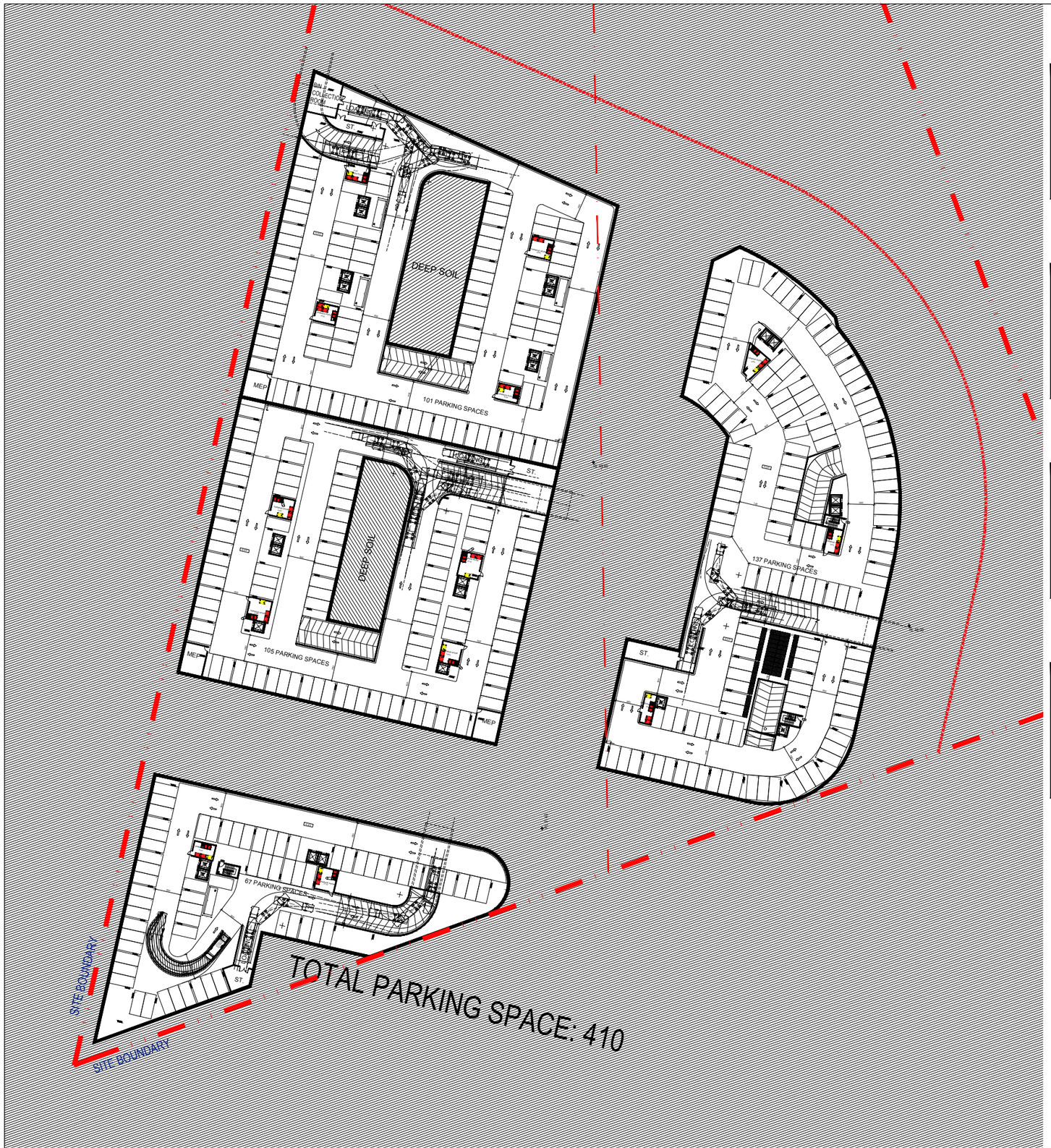
	1 bed		2 bed		3 bed		Retail	TOTAL
Ground	0		0		0		6	**0**
Level 1	1		6		2			**9**
Level 2	1		6		2			**9**
Level 3	1		6		2			**9**
Level 4	1		7		1			**9**
Level 5	1		7		1			**9**
Level 6	1		7		1			**9**
Level 7	1		7		1			**9**
Total	**7**		**46**		**10**		**6**	**63**
			100%		**100%**			
	7		**46**		**10**			
	11%		**73%**		**16%**			

BUILDING H

	1 bed		2 bed		3 bed		Retail	TOTAL
Ground	0		0		0		4	**0**
Level 1	4		6		0			**10**
Level 2	4		6		0			**10**
Level 3	4		6		0			**10**
Level 4	3		5		0			**8**
Level 5	3		5		0			**8**
Total	**18**		**28**		**0**		**4**	**46**
	100%		**100%**					
	18		**28**		**0**			
	39%		**61%**		**0%**			

TOTAL

	1 bed		2 bed		3 bed		Retail	TOT.
BLDG_A	24		73		7			**104**
BLDG_B	14		66		9			**89**
BLDG_C	15		48		14			**77**
BLDG_D	21		50		12			**83**
BLDG_E	31		73		17			**121**
BLDG_F	26		61		10			**97**
BLDG_G	7		46		10			**63**
BLDG_H	18		28		0			**46**
TOTAL	**156**		**445**		**79**		**15**	**680**
	100.0%		**100.0%**		**100.0%**			
	156		**445**		**79**			
	22.9%		**65.4%**		**11.6%**			



Stage 1 (A+B)	1-BED	2-BED	3-BED	VISTOR CAR SPACE REQUIRED		TOTAL CAR SPACE REQUIRED
NO. OF UNITS	38	139	16			
NO. OF CAR SPACE REQUIRED				28		160

Stage 2 (C+D)	1-BED	2-BED	3-BED	VISTOR CAR SPACE REQUIRED	RETAIL PARKING SPACE REQUIRED	TOTAL CAR SPACE REQUIRED
NO. OF UNITS	36	98	26			
NO. OF CAR SPACE REQUIRED				23	3	141

Stage 3 (E+F)	1-BED	2-BED	3-BED	VISTOR CAR SPACE REQUIRED		TOTAL CAR SPACE REQUIRED
NO. OF UNITS	57	134	27			
NO. OF CAR SPACE REQUIRED				32		181

Stage 4 (G+H)	1-BED	2-BED	3-BED	VISTOR CAR SPACE REQUIRED	RETAIL PARKING SPACE REQUIRED	TOTAL CAR SPACE REQUIRED
NO. OF UNITS	25	74	10			
NO. OF CAR SPACE REQUIRED				16	3	93

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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Legend

DRAWING LABEL

PARKING CALCULATION

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Project: EDMONDSON PARK

Project address: 164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:500 @ A1 1:1000 @ A3 Date JUN 2020

Drawing title: PARKING CALCULATION

Project no. 1008 Drawing no. CP090

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

PERSPECTIVE - BUILDING A & B 01

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 Datum 2020

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P001

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

PERSPECTIVE - BUILDING A & B 02

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 — Date JUN 2020

0 2.5 5 7.5 10 12.5

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P002

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

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DRAWING LABEL

PERSPECTIVE - BUILDING C & D 01

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EDMONDSON PARK

Project address

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Key plan

Scale 1:125 @ A1 1:250 @ A3 DatGUN 2020

0 2.5 5 7.5 10 12.5

Drawing title
PERSPECTIVE

Project no. 1008 Drawing no. P003

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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DRAWING LABEL

PERSPECTIVE - BUILDING C & D 02

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3

Date JUN 2020

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P004

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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DRAWING LABEL

PERSPECTIVE - BUILDING C & D 03

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EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 Date JUN 2020

0 2.5 5 7.5 10 12.5

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P005

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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DRAWING LABEL

PERSPECTIVE - BUILDING E 01

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 Date JUN 2020

0 2.5 5 7.5 10 12.5

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P006

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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DRAWING LABEL

PERSPECTIVE - BUILDING F 01

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Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 DatsUN 2020

0 2.5 5 7.5 10 12.5

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P007

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
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THESE DOCUMENTS AND ANY WORKS EXECUTED AS A RESULT OF THESE DOCUMENTS SHALL BE SUBJECT TO THE COPYRIGHT CONDITIONS SET OUT IN THE CONDITIONS OF ENGAGEMENT ©

Legend

DRAWING LABEL

PERSPECTIVE - BUILDING G & H 01

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Unit 7
10-16 Vore Street
Silverwater NSW 2128
P (02) 9648 2855
F (02) 9648 2915
E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 DatsUN 2020

Drawing title
PERSPECTIVE

Project no. 1008 Drawing no. P009

Drawn TL, DL

Drawing status

Rev.	Description	By	Date
A	FOR INFORMATION		MAY 2020
B	FOR INFORMATION		JUN 2020

Disclaimer

"THESE DRAWINGS ARE PRELIMINARY DRAWINGS AND ARE SUBJECT TO CHANGE WITHOUT NOTICE DURING THE COURSE OF THE PROPOSED DEVELOPMENT AND IN CONSULTATION WITH COUNCIL SUBMISSIONS. THESE DRAWINGS DO NOT CONSTITUTE WORKING DRAWINGS OR SHOP DRAWINGS (SEE CLAUSE 23). SERVANTS, AGENTS OR CONTRACTORS THAT THE DRAWINGS ARE FINAL NOR THAT THE PROPOSED DEVELOPMENT WILL TAKE PLACE IN ACCORDANCE WITH THESE DRAWINGS."

BEFORE CARRYING OUT ANY WORK ENSURE THAT THE DRAWINGS USED CARRY THE LATEST AMENDMENT No.

Notes

DRAWINGS MADE TO A LARGER SCALE AND THOSE SHOWING PARTICULAR DETAIL OF WORKS SHALL TAKE PRECEDENCE OVER DRAWINGS MADE TO A SMALLER SCALE AND FOR MORE GENERAL PURPOSES

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BUILDER TO CHECK ALL SITE DIMENSIONS PRIOR TO FABRICATION OF ITEM/S

THESE DOCUMENTS AND ANY WORKS EXECUTED AS A RESULT OF THESE DOCUMENTS SHALL BE SUBJECT TO THE COPYRIGHT CONDITIONS SET OUT IN THE CONDITIONS OF ENGAGEMENT ©

Legend

DRAWING LABEL

PERSPECTIVE - BUILDING G & H 02

Client

Super Star Holding Group Pty. Ltd.

Architects

tony owen ptnrs
Unit 7
75-79 Town Drive
Burleigh Heads QLD 4220
P (07) 5608 2900
F (07) 5608 2911
E info@tonyowen.com.au

Project

EDMONDSON PARK

Project address

164-170 Croatia Avenue, Edmondson Park

Key plan

Scale 1:125 @ A1 1:250 @ A3 Date JUN 2020

0 2.5 5 7.5 10 12.5

Drawing title

PERSPECTIVE

Project no. 1008 Drawing no. P010

Drawn TL, DL

Drawing status

NOTES

- NO BOUNDARY HAS BEEN SURVEYED OR MARKED. ALL BOUNDARY DIMENSIONS HAVE BEEN COMPILED FROM DEPOSITED PLANS ONLY AND NOT BY FIELD MEASURMENTS. THIS PLAN SHOULD NOT BE USED FOR BUILDING TO BOUNDARY, OR TO PRESCRIBED SET-BACKS WITHOUT FURTHER BOUNDARY SURVEY.
- RELATIONSHIP OF IMPROVEMENTS AND DETAIL TO BOUNDARIES IS DIAGRAMMATIC AND IF CRITICAL SHOULD BE CONFIRMED BY A FURTHER BOUNDARY SURVEY.

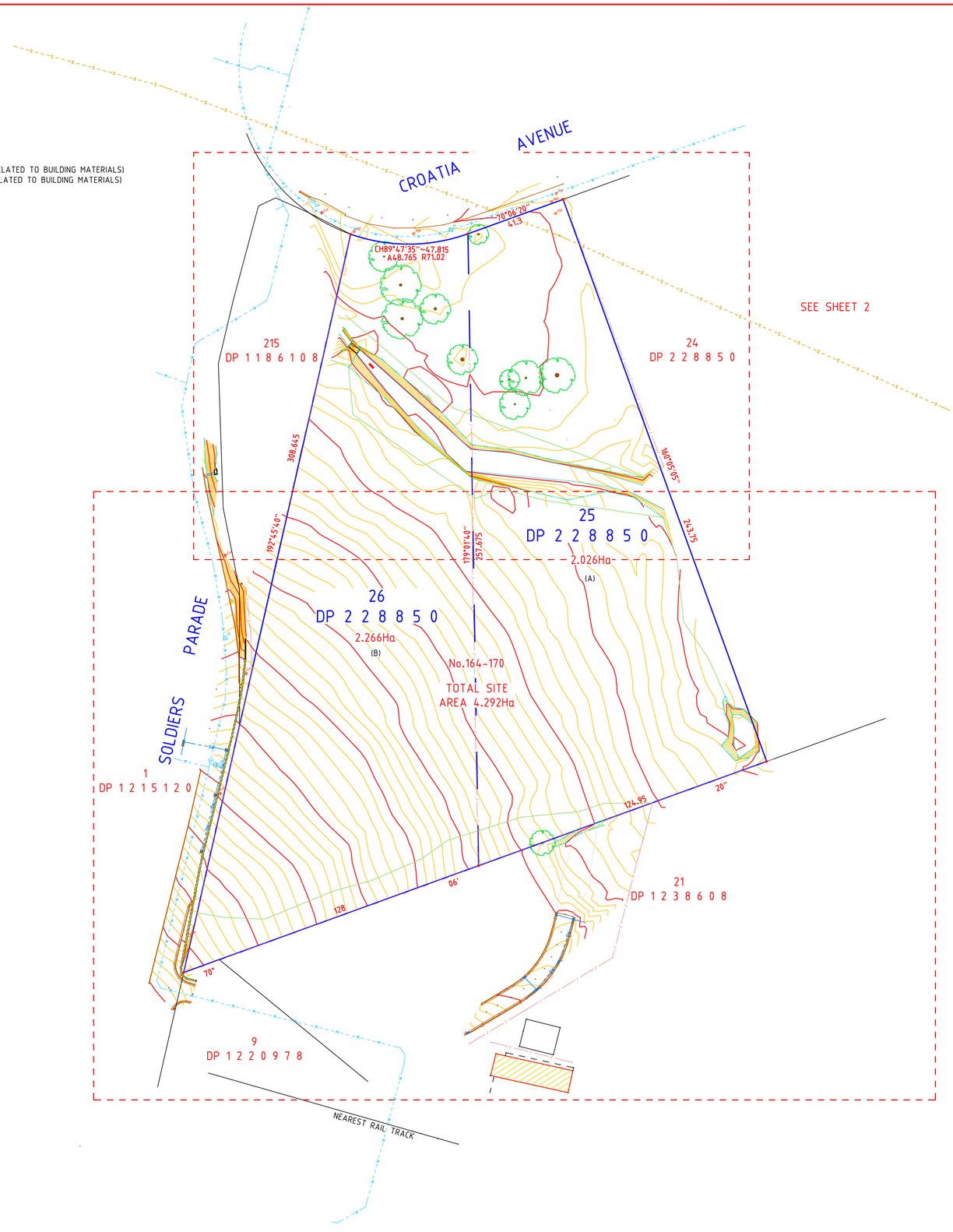
- THE ORIENTATION OF TRUE NORTH ON THIS PLAN IS AS PER THE SCIMS SURVEY MARK REPORT.
- CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY AND SHOULD ONLY BE USED FOR PLANNING PURPOSES. IF DETAILED DESIGN IS TO BE UNDERTAKEN, SPOT LEVELS SHOULD BE USED.
- LOT AREA(S) SHOWN ON THIS PLAN HAVE BEEN CALCULATED FROM COMPILED BOUNDARIES. LOT AREA(S) SHOWN ON TITLE DIAGRAM MAY DIFFER.
- NO SERVICE SEARCH HAS BEEN UNDERTAKEN. ONLY THOSE VISIBLE ABOVEGROUND SERVICES WITHIN THE PROPERTY VISIBLE AT THE TIME OF SURVEY HAVE BEEN LOCATED AND SOME SERVICES MAY HAVE BE OBSCURED BY PLANT AND MATERIALS.
- THIS DRAWING REMAINS THE COPYRIGHT OF STRATASURV P/L AND CANNOT BE REPRODUCED OR ALTERED WITHOUT PRIOR WRITTEN CONSENT.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DETAIL FROM THE DRAWING.
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DETAILED DESIGN SHOULD CONSIDER THE ACCURACY OF THE DATUM PROVIDED BY STATE SURVEY MARKS AND PERMANENT MARKS NOTING THAT THE LANDS DEPT. MAY AT ANY TIMES RE-ADJUST ITS HEIGHT WITHIN THE NETWORK
- TITLE(S) SCHEDULES AND NOTATIONS NOT INVESTIGATED.
- NOT ALL INTERNAL SUBJECT LOT DETAIL SHOWN. PLAN FOR PURPOSE OF SHOWING SITE LEVELS & SIGNIFICANT STRUCTURES ONLY.
- FLOOR LEVEL(S) HAVE BEEN TAKEN AT ACCESSIBLE POINTS INDICATED. (EG. THRESHOLD) INTERNAL FLOOR LEVELS MAY DIFFER FROM INDICATED LEVEL AND SHOULD BE CONFIRMED IF CRITICAL.
- RIDGE, EAVE AND GUTTER HEIGHTS HAVE BEEN OBTAINED BY AN INDIRECT METHOD AND ARE ACCURATE FOR PLANNING PURPOSES ONLY.
- ADJOINING BUILDINGS AND DWELLINGS HAVE BEEN PLOTTED FOR DIAGRAMMATIC PURPOSES ONLY.
- KERB LEVELS SHOWN ARE INVERT UNLESS OTHERWISE STATED.
- TREE SPREADS & TREE HEIGHTS ARE INDICATIVE ONLY & IF CRITICAL, TREE POSITIONS SHOULD BE VERIFIED BY AN ON-SITE INVESTIGATION PRIOR TO CONSTRUCTION.
- THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN. REPRODUCTION OF THIS PLAN OR ANY PART OF IT WITHOUT THIS NOTE BEING INCLUDED IN FULL WILL RENDER THE INFORMATION SHOWN ON SUCH REPRODUCTION INVALID AND NOT SUITABLE FOR USE.

(A) COVENANT (VIDE K749526) (RELATED TO BUILDING MATERIALS)
(B) COVENANT (VIDE L195256) (RELATED TO BUILDING MATERIALS)

APPROX 1°12'

TN MGA

ALL BEARING SHOW ARE ON MGA ORIENTATION



SEE SHEET 3

LEGEND:

MAJOR & MINOR CONTOUR WITH LABEL RUNNING UPHILL

T*S5/0.3H7 — H- HEIGHT; Ø- TRUNK DIAMETER; S- SPREAD (RADIUS)

AWN	AWNING
BK	BRICK
B1.23	BACK OF KERB
CPIT	PIT WITH CONCRETE COVER
FL	FLOOR LEVEL
GPIT	GRATED PIT
IL	INVERT LEVEL
K&G(0.15)	KERB AND GUTTER (HEIGHT)
KIP	KERB INLET PIT
KO	KERB OUTLET
L1.23	LIP OF KERB
LM	LINE MARKING
MPIT	PIT WITH METAL COVER
PC	PRAM CROSSING
RL	REDUCED LEVEL
RR	ROOF RIDGE
SL	PIT SURFACE LEVEL
SMH	SEWER MANHOLE
SP	SIGN POLE
VC	VEHICLE CROSSING
Ø	DIAMTER

	LIGHT POLE
	POWER POLE WITH LIGHT
	POWER POLE
	GAS VALVE
	STANDARD SEWER MANHOLE
	TELECOMMUNICATION PIT
	HYDRANT
	STOP VALVE
	BENCHMARK

- SEWER LINE UG (APPROX. POSITION)
- STORMWATER LINE UG (APPROX. POSITION)
- WATER LINE UG (APPROX. POSITION)
- FENCE
- BOTTOM OF BANK
- TOP OF BANK

WARNING: ONLY SYDNEY WATER ASSETS SHOWN. UNDERGROUND SERVICE LOCATIONS ARE INDICITIVE ONLY AND REPRESENT THE EXISTANCE OF SERVICES IN THE AREA. A DETAILED STUDY OF THE LOCATION OF UNDERGROUND SERVICES WILL NEED TO BE UNDERTAKEN PRIOR TO COMMENCEMENT OF DESIGN WORK OR EXCAVATION. POT-HOLING OR UNDEGROUND SERVICE LOCATOR ADVISED IF DESIGN IS CRITICAL

CLIENT DETAILS
TONY OWEN PARTNERS

REV	DATE	REVISION DETAILS	DESIGN	SURV	DWN	CHK
A	05/05/2020	PLAN ISSUED		MM	MM	PS

DATE OF SURVEY	01&04/05/2020
ORIGIN OF RL'S	PM50461 RL48.39
DATUM/CLASS/ORDER	AHD/B/-
CONTOUR INTERVAL	0.2m
CAD REF FILE:	4418DT02a3.dwg

PROJECT:
164-170 CROATIA AVENUE, EDMONDSON PARK

STRATASURV
REGISTERED SURVEYORS
DEVELOPMENT CONSTRUCTION STRATUM
Sydney · Melbourne · Brisbane · Newcastle · Gold Coast
Ph: 97127111 Fax: 97127333
EMAIL: ssurveyors@stratasurv.com.au

DRAWING TITLE
PLAN SHOWING DETAIL, LEVELS AND CONTOURS OVER LOTS 25 AND 26 IN DP 228850

DRAWING NUMBER	Sheet	Sheets	SCALE	REVISION
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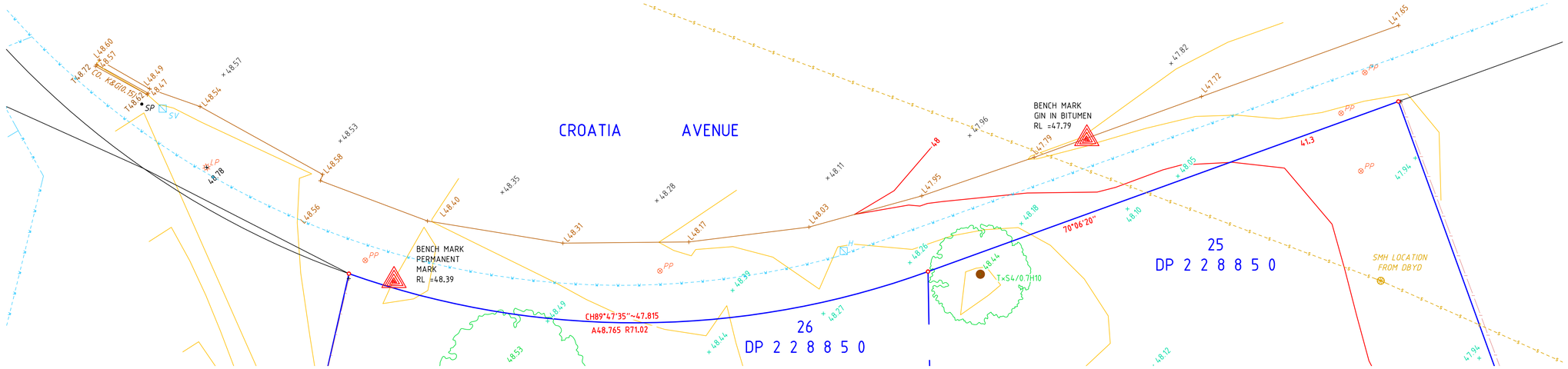
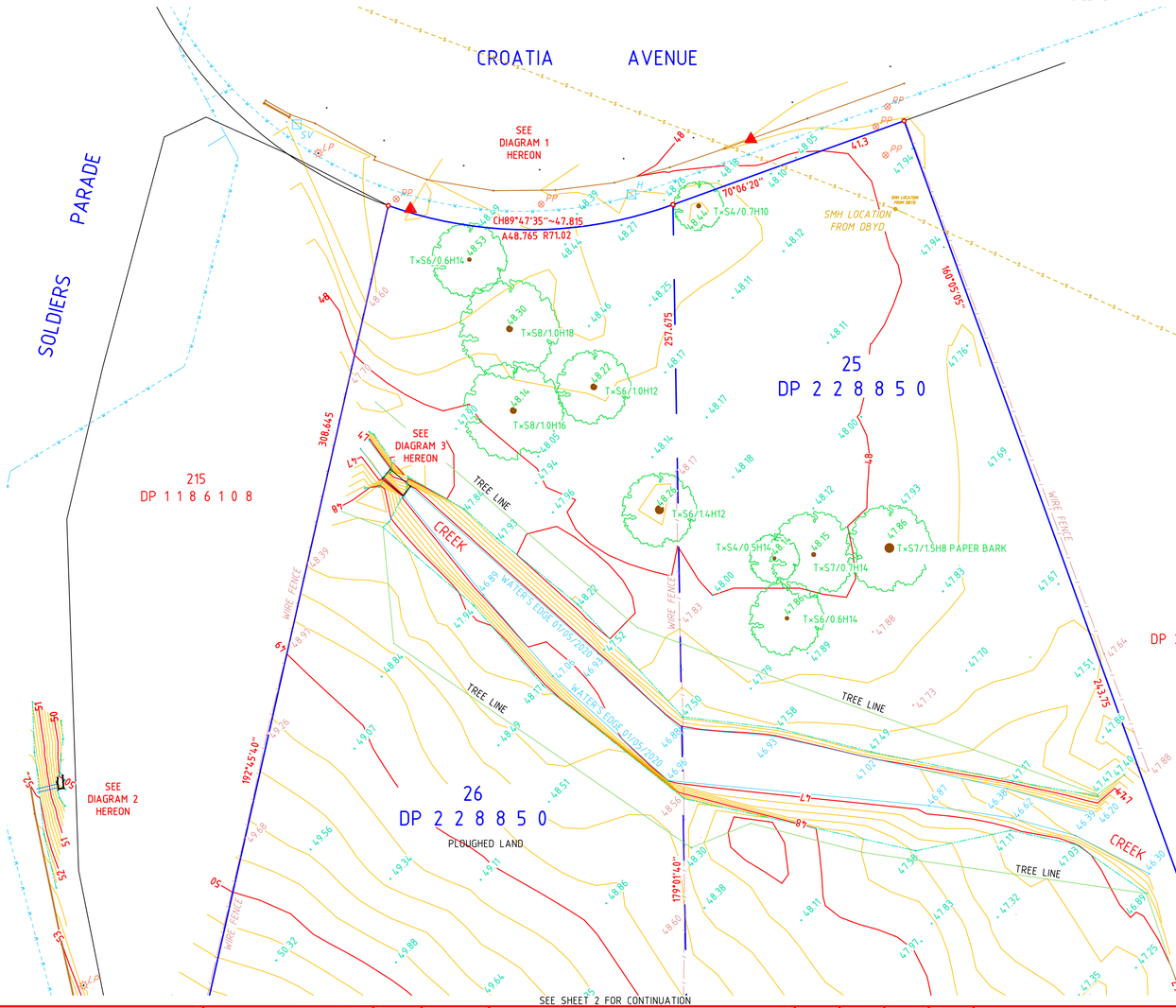


DIAGRAM 1
SCALE 1:200



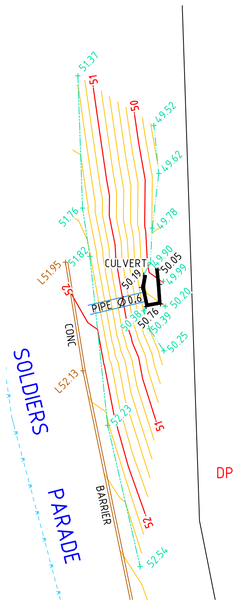


DIAGRAM 2
SCALE 1:200

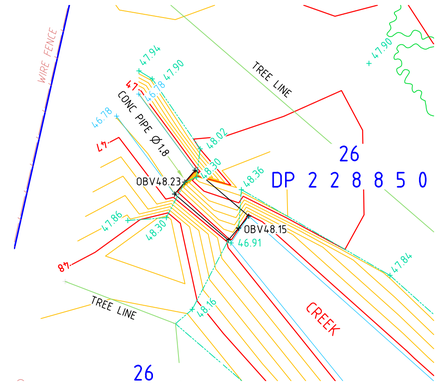


DIAGRAM 2
SCALE 1:200

CLIENT DETAILS						
TONY OWEN PARTNERS						
A	05/05/2020	PLAN ISSUED		MM	MM	PS
REV	DATE	REVISION DETAILS	DESIGN	SURV	DWN	CHK

DATE OF SURVEY	01&04/05/2020
ORIGIN OF RL'S	PM50461 RL48.39
DATUM/CLASS/ORDER	AHD/B/-
CONTOUR INTERVAL	0.2m
CAD REF FILE:	4418DT02a3.dwg

PROJECT:

164-170 CROATIA AVENUE,
EDMONDSON PARK

STRATASURV
REGISTERED SURVEYORS
DEVELOPMENT CONSTRUCTION STRATUM
Sydney · Melbourne · Brisbane · Newcastle · Gold Coast
Ph: 97127111 Fax: 97127333
EMAIL: ssurveyors@stratasurv.com.au

DRAWING TITLE
PLAN SHOWING DETAIL, LEVELS AND CONTOURS OVER LOTS 25 AND 26 IN DP 228850

DRAWING NUMBER	Sheet	Sheets	SCALE	REVISION
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May 06, 2020 - 4:24pm X:\Projects\4418 Edmondson Park\Drawings\Survey\4418DT02a3.dwg

SEE SHEET 3 FOR CONTINUATION

APPROX 1°12'

TN MGA

ALL BEARING SHOW ARE ON MGA ORIENTATION

1
DP 1215120

26
DP 228850

25
DP 228850

24
DP 228850

21
DP 1238608

9
DP 122097 8

PLOUGHED LAND

PLOUGHED LAND

PLOUGHED LAND

TREE LINE

TREE LINE

TREE LINE

TREE LINE

TREE LINE

WIRE FENCE

WIRE FENCE

CHAIN LINK FENCE

CHAIN LINK FENCE

CHAIN LINK FENCE

CHAIN LINK FENCE

CHAIN LINK FENCE

SOLDIERS WAY

SEALED ROAD

FOOTPATH

RUBBLE

GRAVEL

ELECTRICAL TRANSFORMERS

SINGLE STOREY RAILWAY BUILDING WITH METAL ROOF

NEAREST RAIL TRACK

SEE DIAGRAM 4 SHEET 4

SEE DIAGRAM 3 SHEET 4

SEE DIAGRAM 5 SHEET 4

SP

308.665

257.675

213.75

124.95

192°45'40"

179°01'40"

50°50'40"

Tx55/0.7H12

A	05/05/2020	PLAN ISSUED		MM	MM	PS	
REV	DATE	REVISION DETAILS	DESIGN	SURV	DWN	CHK	

CLIENT DETAILS
TONY OWEN PARTNERS

DATE OF SURVEY	01&04/05/2020
ORIGIN OF RL'S	PM50461 RL48.39
DATUM/CLASS/ORDER	AHD/B/-
CONTOUR INTERVAL	0.2m
CAD REF FILE:	4418DT02a3.dwg

PROJECT:
164-170 CROATIA AVENUE, EDMONDSON PARK

STRATASURV
REGISTERED SURVEYORS
DEVELOPMENT CONSTRUCTION STRATUM
Sydney · Melbourne · Brisbane · Newcastle · Gold Coast
Ph: 97127111 Fax: 97127333
EMAIL: ssurveyors@stratasurv.com.au

DRAWING TITLE
PLAN SHOWING DETAIL, LEVELS AND CONTOURS OVER LOTS 25 AND 26 IN DP 228850

DRAWING NUMBER	Sheet	Sheets	SCALE	REVISION
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May 06, 2020 - 1:25pm X:\Projects\4414\DT Edmondson Park\Drawings\Cad\4414DT02a3.dwg

SEE BOTTOM RIGHT FOR CONTINUATION

SOLDIERS PARADE

BRIDGE

PLOUGHED LAND

TREE LINE

CHAIN LINK FENCE

FOOTPATH

CONC

BARRIER

SL 57.18
IL 56.18

SL 58.11
IL 57.05

308.645

192°45'40"

128

20"

06"

70"

26
DP 228850

21
DP 1238608

9
DP 1220978

1
DP 1215120

215
DP 1186108

TPIT

TOW54.44

TOW54.34

CHAIN LINK FENCE

SOLDIERS PARADE

BRIDGE

BARRIER

SL 56.15
IL 55.00

SL 56.48
IL 55.39

SV

H

PLOUGHED LAND

SEE TOP LEFT FOR CONTINUATION

NEAREST RAIL TRACK

DIAGRAM 3
SCALE 1:200

DIAGRAM 43
SCALE 1:200

SL 50.00
IL 48.87

SL 50.09
IL 48.95

SL 50.52
IL 49.25

SL 50.61
IL 49.48

SL 50.82
IL 49.52

SL 51.91
IL

SEALED ROAD

GUARDRAIL

CHAIN LINK FENCE

APPROX
1°12'

TN
MGA

ALL BEARING SHOW
ARE ON MGA ORIENTATION

21
DP 1238608

ELECTRICAL
TRANSFORMERS

SECURITY FENCE

OVERHANG

SINGLE STOREY
RAILWAY BUILDING
WITH METAL ROOF

AWNING

RRS8.33

DIAGRAM 5
SCALE 1:200

May 06, 2020 - 1:28pm X:\Projects\4418 Edmondson Park\Drawings\Dat\Details\4418DT02a3.dwg

CLIENT DETAILS
TONY OWEN PARTNERS

REV	DATE	REVISION DETAILS	DESIGN	SURV	DWN	CHK
A	05/05/2020	PLAN ISSUED		MM	MM	PS

DATE OF SURVEY	01&04/05/2020
ORIGIN OF RL'S	PM50461 RL48.39
DATUM/CLASS/ORDER	AHD/B/-
CONTOUR INTERVAL	0.2m
CAD REF FILE:	4418DT02a3.dwg

PROJECT:
164-170 CROATIA AVENUE,
EDMONDSON PARK

STRATASURV
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DEVELOPMENT CONSTRUCTION STRATUM
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DRAWING TITLE
PLAN SHOWING DETAIL, LEVELS AND CONTOURS OVER LOTS 25 AND 26 IN DP 228850

DRAWING NUMBER	Sheet	Sheets	SCALE	REVISION
4418DT01a2	04	OF 04	1:200	A

Appendix D – Site Photograph

Photograph 1 – General site condition, facing south (23.07.20)

Photograph 2 – The concrete culvert in the north-western portion of the site (23.07.20)

Photograph 3 – The cattle farm to the north of the site (23.07.20)

Photograph 4 – The abandoned car in the north portion of the site (23.07.20)

Photograph 5 – The vehicle related wastes around the abandoned car (09.07.20)

Photograph 6 – Scattered metal fences in the south-east portion of the site (23.07.20)

Photograph 7 – General Site condition (23.07.20)

Photograph 8 – General Site condition (23.07.20)

Photograph 9 – Steep topographical change across the site, facing west(23.07.20)

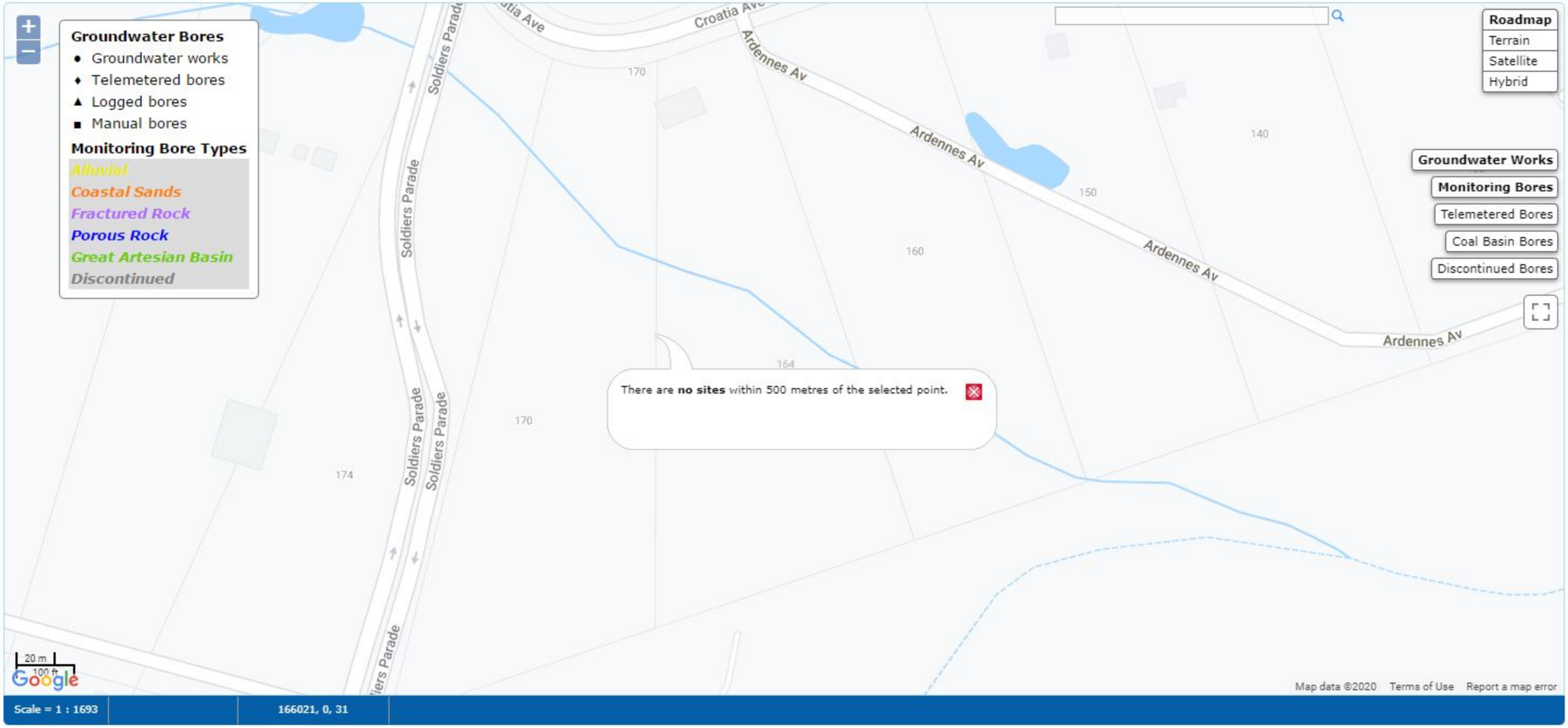
Appendix E – Groundwater Bore Search

ALL GROUNDWATER MAP

bookmark this page

All data times are Eastern Standard Time

Map | Info



Scale = 1 : 1693 | 166021, 0, 31

Appendix F – Historical Property Titles

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

Address: 164 to 170 Croatia Avenue, Edmondson Park

Description: - Lots 25 & 26 D.P. 228850

As regards Lot 25 D.P. 228850

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.08.1819 (1819 to 1937)	Charles Throsby & his deceased estate	Unregistered Bargain & Sale (Original Deed in Deposited Deed Packet 15782)
09.12.1937 (1937 to 1954)	Annie Shephard (Married Woman)	Book 1801 No. 581
25.05.1954 (1954 to 1962)	Sidney Marchinton (Grazier)	Book 2292 No. 589
26.06.1962 (1962 to 1967)	Croatian Community Advancement Co-Operative Society Limited	Book 2626 No. 35 Now Vol 10332 Fol 224
21.07.1967 (1967 to	Gudrija Matulin (Storekeeper)	Vol 10332 Fol 224
27.03.1969 (1969 to 2003)	Rudolf Stevermuer (Miner)	Vol 10332 Fol 224 Now 25/228850
02.08.2003 (2003 to 2015)	Dux Holdings Pty Limited Immobiliare (Holdings) Pty Ltd Ghaian Pty Ltd	25/228850
23.06.2015 (2015 to date)	# Super Star Holding Group Pty Limited	25/228850

# Denotes Current Registered Proprietor

Easements & Leases: - NIL

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards Lot 26 D.P. 228850

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.08.1819 (1819 to 1937)	Charles Throsby & his deceased estate	Unregistered Bargain & Sale (Original Deed in Deposited Deed Packet 15782)
09.12.1937 (1937 to 1954)	Annie Shephard (Married Woman)	Book 1801 No. 581
25.05.1954 (1954 to 1962)	Sidney Marchinton (Grazier)	Book 2292 No. 589
26.06.1962 (1962 to 1968)	Croatian Community Advancement Co-Operative Society Limited	Book 2626 No. 35 Now Vol 10332 Fol 225
02.07.1968 (1968 to 1970)	Zorro Zuonimir Zorichich (Real Estate Agent) Anna Zorichich (Married Woman)	Vol 10332 Fol 225
06.03.1970 (1970 to 1971)	Branco Ivankovic (Dental Mechanic) Helen Ivankovic (Married Woman)	Vol 10332 Fol 225
13.12.1971 (1971 to 2006)	Joan Owens (Married Woman) (also known as Joanne Martin) (& her deceased estate) Carl James Melvey (Company Director)	Vol 10332 Fol 224 Now 26/228850
01.05.2006 (2006 to 2016)	Pintra Holdings Pty Limited	26/228850
23.06.2016 (2016 to date)	# Super Star Holding Group Pty Limited	26/228850

# Denotes Current Registered Proprietor

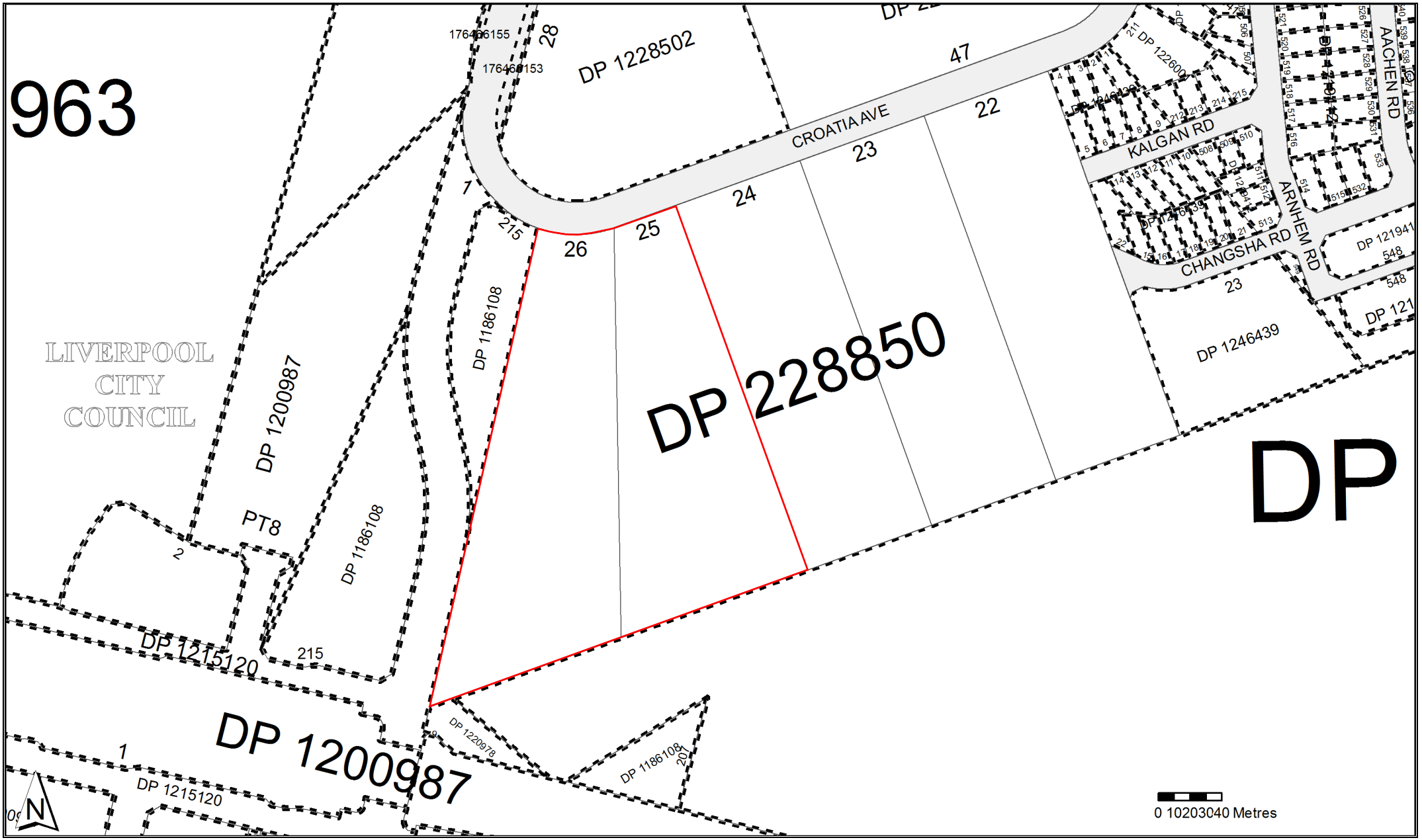
Easements & Leases: - NIL

Yours Sincerely
Mark Groll
16 July 2020

Cadastral Records Enquiry Report : Lot 25 DP 228850

Ref : Edmondson Park 164 to 170 Croatia

Locality : EDMONDSON PARK
Parish : MINTO
LGA : LIVERPOOL
County : CUMBERLAND



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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

Req:R294404 /Doc:CT 10187-167 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:05-Jul-2020 13:38 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 90 Croatioa Rd

10187167

[redacted]TIFICATE OF TITLE

[redacted]PERTY ACT, 1900, as amended.

NEW SOUTH WALES

Vol. 10187 Fol. 167

Appln. No. 44286

1st Edition issued 8-12-1965

CANCELLED

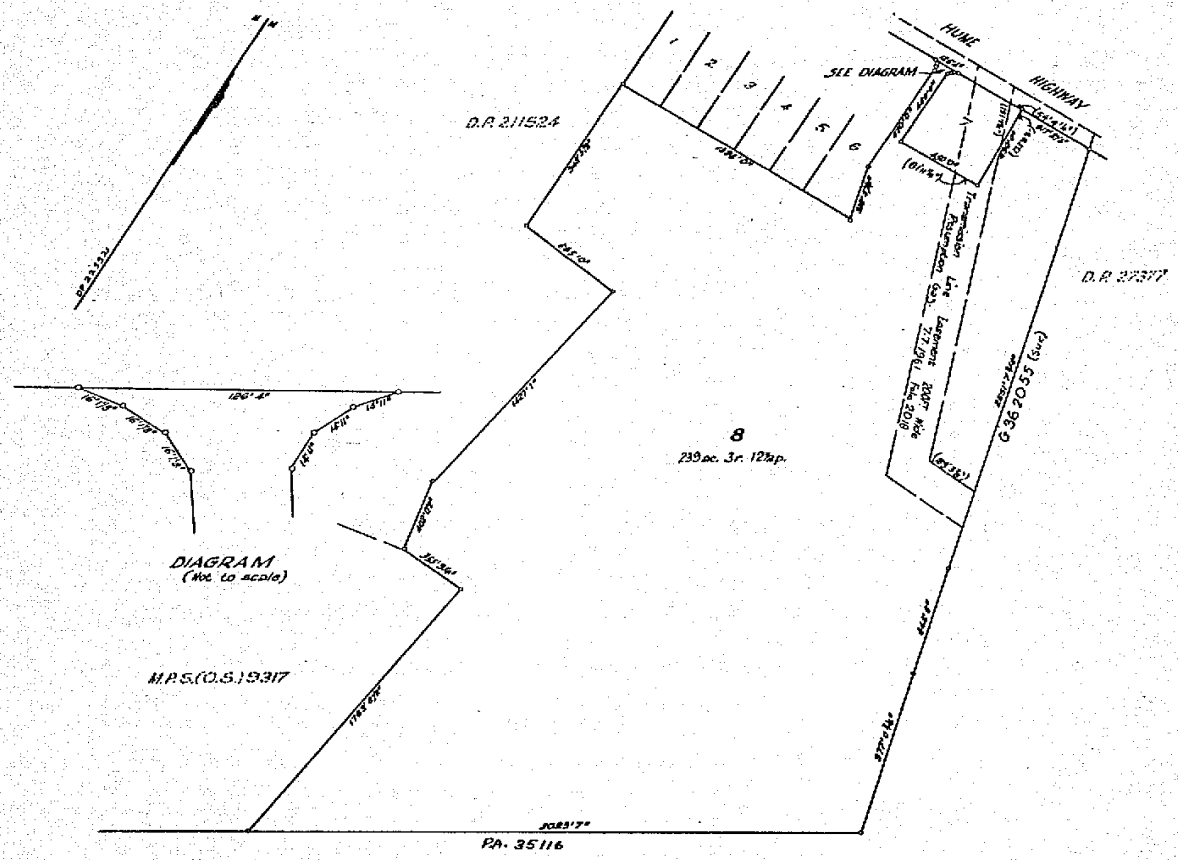
(Page 1) Vol. 10187 Fol. 167

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness J. Charles

Registrar General.

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO.

Estate in Fee Simple in Lot 8 in Deposited Plan 225521 at Prestons in the City of Liverpool Parish of Minto and County of Cumberland being part of Portion 63 granted to Henry Kitchen on 17-8-1819.

FIRST SCHEDULE (Continued overleaf)

CROATIAN COMMUNITY ADVANCEMENT CO-OPERATVIE SOCIETY LIMITED.

Registrar General.

SECOND SCHEDULE (Continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Easement for Transmission Line resumed by notification in Government Gazette dated 7.7.1961, Folio 2018 and 2019 affecting the piece of land shown as Transmissione Line Easement 200 feet wide in the plan hereon.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

ST 1608 V. C. N. PLIGHT, GOVERNMENT PRINTER

Vol. 10187 Fol 167

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
Light P.S.Z. vide grant D.P. 228850 Including the land within				EDB	
This deed is cancelled as to the whole (Ex roads)					
New Certificates of Title have issued for lots in Deposited Plan No. 228850 as follows:-					
Lots 9 to Soul Vol 10332 Fol 204 to 249 respectively					
REGISTRAR GENERAL					

K163856 DP 228850 8.9.65 Registered Plat [illegible] DP 228850

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION
Mortgage	K163856	4.11.1965	to Bank of New South Wales.	8.12.1965		
			The interest of the Council of the City of Liverpool in the new roads shown on D.P. 228850.	8.6.1966		

(Page 2 of 2 pages)

FORM No. 62 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R294404 /Doc:CT 10187-167 CT /Rev:11-Jan-2011 /NSW LRS /Pgs:ALL /Prt:05-Jul-2020 13:38 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 90 Croatioa Rd

Req:R351305 /Doc:CT 10332-224 CT /Rev:17-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

[redacted]FICATE OF TITLE

NEW SOUTH WALES

[redacted]RTY ACT, 1900, as amended.

10332224

Vol. 10332 Fol. 224

Edition issued 17-6-1966.

Appln. No. 44286
Prior Title Vol. 10187 Fol. 167

(Page 1) Vol. 10332 Fol. 224

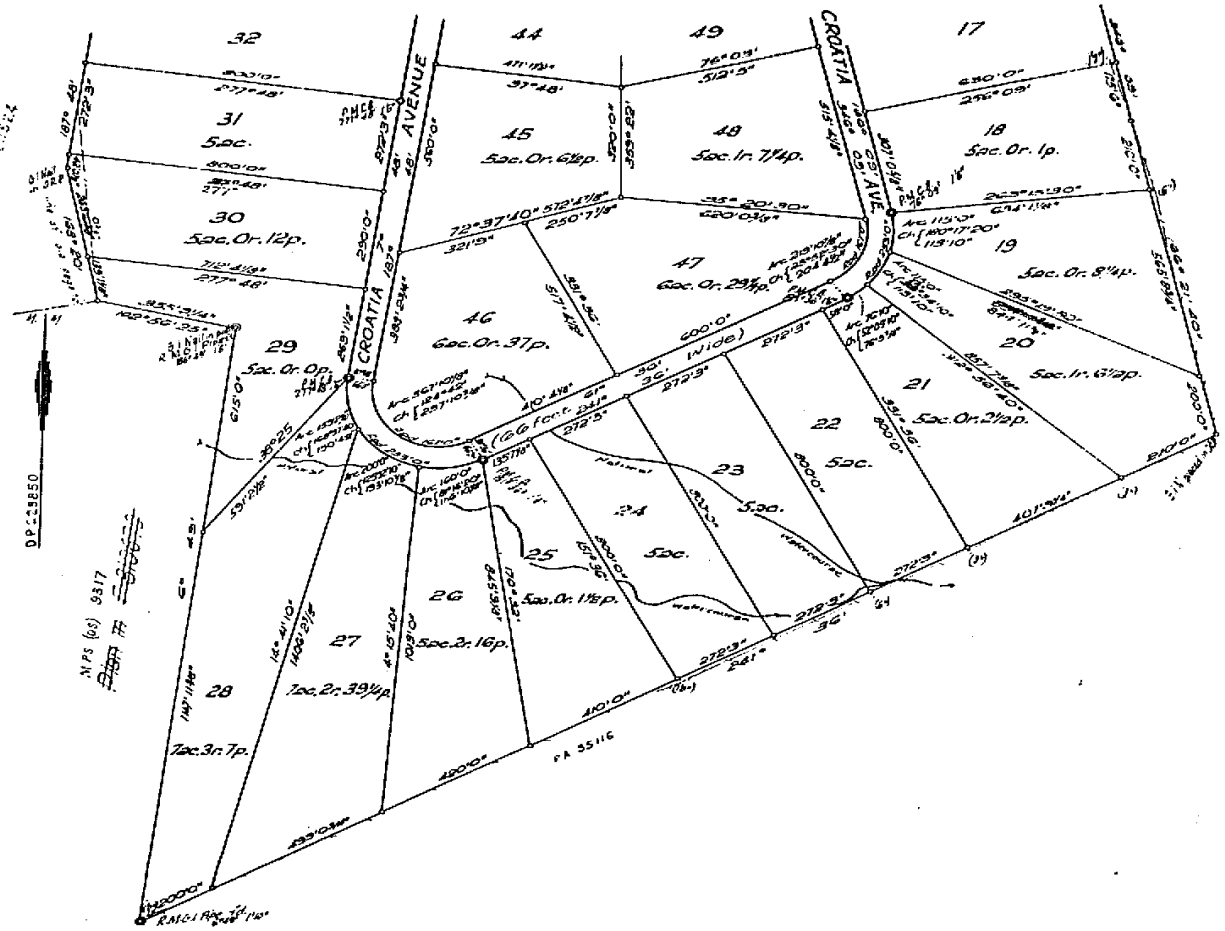
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness D. O'Sullivan.

CANCELLED
Registrar General.

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO



ESTATE AND LAND REFERRED TO.

Estate in Fee Simple in Lot 25 in Deposited Plan 228850 at Prestons in the City of Liverpool Parish of Minto and County of Cumberland being part of Portion 63 granted to Henry Kitchen on 17-8-1819.

FIRST SCHEDULE (Continued overleaf)

~~CROATIAN COMMUNITY ADVANCEMENT CO-OPERATIVE SOCIETY LIMITED.~~

Registrar General.

SECOND SCHEDULE (Continued overleaf)

GRN 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
~~2. Mortgage No. K163856 to Bank of New South Wales. Entered 8-12-1965.~~ discharged K630211

Registrar General.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

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Vol. 10332 Fol 224

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
~~Gvozdija Kratačin of Randwick Storekeeper~~	Transfer	K749526	21-7-1967	28-7-1967	
~~Rudolf Stevenauer of Tempe, Miner~~	Transfer	L 404608	27.3.1969	1.5.1969	

CANCELLED

SEE AUTO FOLIO

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
Covenant	K749526P		Created by Transfer No K749526	28-7-1967				
~~Mortgage~~	~~L 404609~~	~~21.4.1969~~	~~to Finance Corporation of Australia Limited~~	~~1.5.1969~~		Discharged	M384572	
~~Mortgage~~	~~M384573~~	~~23.6.1971~~	~~to Stanley Thompson Investments Pty Limited~~	~~18.6.1971~~		Discharged	M859368	
~~Mortgage~~	~~M859369~~	~~24.7.1972~~	~~to Stanley Thompson Investments Pty Limited~~	~~28.8.1972~~		Discharged	N204158	
~~Mortgage~~	~~N204159~~	~~5.6.1973~~	~~to Stanley Thompson Investments Pty Limited~~	~~3.5.1973~~		Discharged	V640254	

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

Req:R351305 /Doc:CT 10332-224 CT /Rev:17-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
16/7/2020 9:23AM

FOLIO: 25/228850

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10332 FOL 224

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
11/4/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
23/11/1993		AMENDMENT: LOCAL GOVT AREA	
15/3/2002	8434344	MORTGAGE	EDITION 1
2/8/2003	9780786	DISCHARGE OF MORTGAGE	
2/8/2003	9780787	TRANSFER	
2/8/2003	9780788	MORTGAGE	EDITION 2
3/7/2006	AC431708	DISCHARGE OF MORTGAGE	
3/7/2006	AC431709	MORTGAGE	EDITION 3
5/7/2007	AD243538	DISCHARGE OF MORTGAGE	
5/7/2007	AD243539	MORTGAGE	EDITION 4
16/3/2011	AG122026	DISCHARGE OF MORTGAGE	
16/3/2011	AG122027	MORTGAGE	EDITION 5
27/4/2015	AJ421774	CAVEAT	
23/6/2015	AJ592475	WITHDRAWAL OF CAVEAT	
23/6/2015	AJ592476	DISCHARGE OF MORTGAGE	
23/6/2015	AJ592477	TRANSFER	EDITION 6

*** END OF SEARCH ***

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Req:R351306 /Doc:DL 9780787 /Rev:05-Aug-2003 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:1 of 1
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

Form: 01T
Licence: 01-08-067
Licensee: Midware Systems
S L Lawyers

TRANSFER

New South Wales
Real Property Act 1900

9780787W

PRIVACY NOTE: this information is legally required and wil

STAMP DUTY

Office of State Revenue use only

$2-
023303
(N.S.W. TREASURY)
STAMP DUTY $41
SIGNATURE
DATE 13.8.02

(A) TORRENS TITLE — If appropriate, specify the part transferred
Folio Identifier 25/228850

(B) LODGED BY

Delivery Box	Name, Address or DX and Telephone	CODE
241	~~S L LAWYERS, Solicitors~~ CTB ~~DX 5040 LIVERPOOL Tel: 02 9734 7000~~ Reference (optional): ~~JS:PR:TT~~ 516599	T TW (Sheriff)

(C) TRANSFEROR — RUDOLF STEVERMUER

(D) CONSIDERATION — The transferor acknowledges receipt of the consideration of $ 1,530,000.00 and as regards

(E) ESTATE — the land specified above transfers to the transferee an estate in fee simple.

(F) SHARE TRANSFERRED

(G) Encumbrances (if applicable): 9165250 8

(H) TRANSFEREE — DUX HOLDINGS PTY LIMITED ~~ACN 064 403 934~~ as to 35% share, IMMOBILIARE (HOLDINGS) PTY LTD ACN 063 012 591 as to 35% share and GHAIAN PTY LTD ACN 064 403 934 as to 30% share

(I) TENANCY: TENANTS IN COMMON

(J) DATE 01 / 07 / 03

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness: Greg King

Address of witness: 17 John McLennon Crct
Harrington Park NSW 2567

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name: PETER RONIS
Signatory's capacity: Solicitor for the transferee

105/

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 25/228850

SEARCH DATE	TIME	EDITION NO	DATE
16/7/2020	9:22 AM	6	23/6/2015

LAND

LOT 25 IN DEPOSITED PLAN 228850
AT PRESTONS
LOCAL GOVERNMENT AREA LIVERPOOL
PARISH OF MINTO COUNTY OF CUMBERLAND
TITLE DIAGRAM DP228850

FIRST SCHEDULE

SUPER STAR HOLDING GROUP PTY LIMITED (T AJ592477)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 K749526 COVENANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 16/07/2020 09:22:22

Req:R351302 /Doc:CT 10332-225 CT /Rev:17-Feb-2011 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

[redacted]FICATE OF TITLE

NEW SOUTH WALES

[redacted]RTY ACT, 1900, as amended.

10332225

Vol. 10332 Fol. 225

Edition issued 17-6-1966.

Appln. No. 44286
Prior Title Vol. 10187 Fol. 167

(Page 1) Vol. 10332 Fol. 225

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the [illegible] hereunder.

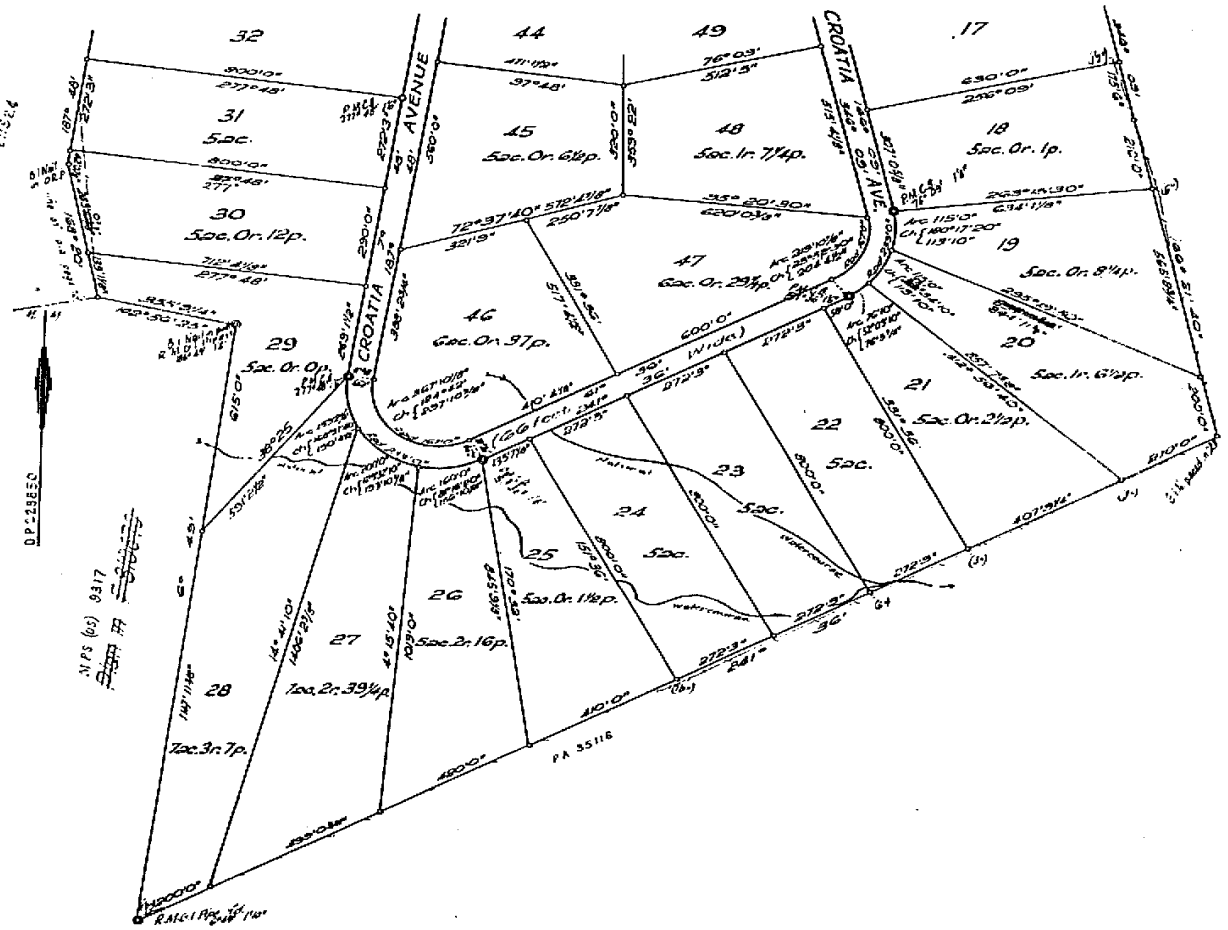
CANCELLED

Witness D. O'Sullivan.

SEE AUTO FOLIO

REGISTRAR GENERAL NEW SOUTH WALES

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO.

Estate in Fee Simple in Lot 26 in Deposited Plan 228850 at Prestons in the City of Liverpool Parish of Minto and County of Cumberland being part of Portion 63 granted to Henry Kitchen on 17-8-1819.

FIRST SCHEDULE (Continued overleaf)

~~CROATIAN COMMUNITY ADVANCEMENT CO-OPERATIVE SOCIETY LIMITED.~~

Registrar General.

SECOND SCHEDULE (Continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
~~2. Mortgage No. K163856 to Bank of New South Wales. Entered 8-12-1965.~~ discharged K630211.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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Vol. 10332 Fol 225

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
~~Jerro Ivancinic Jerichich of Batchaven Bay Real Estate Agent and Anna Jerichich his wife as joint tenants~~	Transfer	L195256	2-7-1968	4-10-1968	
~~Branco Ivankovic of Canley Vale, Dental Mechanic and Helen Ivankovic his wife, as joint tenants~~	Transfer	L773792	6-3-1970	18-3-1970	
Joan Owers, ~~wife of Maxwell Owers of Dorrichville, Director~~ and Carl James Mulvey ~~of Sydney, Company Director~~ as tenants in common in equal shares	Transfer	M603279	13-12-1971	22-2-1972	

CANCELLED

SEE AUTO FOLIO

K630211

L773792

M603279

N81097

P364625

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
C2 Covenant	L195256		Created by Transfer L195256	4-10-1968				
Mortgage	L195257	16-9-1968	~~to Alex Vandelli of Darling Point, Widow~~	~~4-10-1968~~		Discharged	L773791	
mortgage	N81097	~~28~~-3-1972	to Saverio Scarcella Maria Scarcella, Vincenzo Gambino and Fortunata Gambino	9-3-1973		Discharged	P364625	

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
16/7/2020 9:23AM

FOLIO: 26/228850

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10332 FOL 225

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
11/4/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
8/10/1993	I704081	DEPARTMENTAL DEALING	
8/10/1993	I684559	MORTGAGE	EDITION 1
23/11/1993		AMENDMENT: LOCAL GOVT AREA	
5/8/2004	AA856306	DISCHARGE OF MORTGAGE	
5/8/2004	AA856307	TRANSMISSION APPLICATION	EDITION 2
1/5/2006	AC233132	TRANSFER	EDITION 3
27/11/2014	AJ71927	CAVEAT	
24/4/2015	AJ429310	CAVEAT	
23/6/2015	AJ592490	WITHDRAWAL OF CAVEAT	
23/6/2015	AJ592491	WITHDRAWAL OF CAVEAT	
23/6/2015	AJ592492	CAVEAT	
23/6/2016	AK533175	TRANSFER	EDITION 4

*** END OF SEARCH ***

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Received: 16/07/2020 09:23:02

Req:R351303 /Doc:DL AA856307 /Rev:09-Aug-2004 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:1 of 3
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Form: 03TA
Licence: 01-08-076
Licensee: Midware Systems
Pye Lawyers

TRANSMISSION APPLICATION

New South Wales
Section 93 Real Property Act 1900

AA856307U

PRIVACY NOTE: this information is legally required and will become part of the public record

STAMP DUTY — Office of State Revenue use only

(A) LAND — Torrens Title: Folio Identifier 26/228850

(B) REGISTERED DEALING — Number: | Torrens Title:

(C) LODGED BY — Delivery Box: | Name, Address or DX and Telephone: CITY AGENTS BOX 256L | Reference (optional): PYE/5751 | CODE: TA

(D) DECEASED REGISTERED PROPRIETOR — JOAN EILEEN OWENS (AKA JOANNE MARTIN)

(E) APPLICANT — PHILIP LANGSFORD AND PATRICK FRANCIS LAWFORD AND MAURICE LLOYD

(F) The applicant, being entitled as executors of the will of the deceased registered proprietor (who died on 10 April 2003) pursuant to Probate No. [redacted] granted on [redacted] to P Langsford, P F Lawford and M Lloyd (a certified copy of which is lodged herewith) applies to be registered as proprietor of the estate or interest of the deceased registered proprietor in the abovementioned land.

DATE ..... / ..... / .....

(G) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness: [signature]

Name of witness: DANIEL ERNEST MCOMISH

Address of witness: SOLICITOR BALLINA

Certified correct for the purposes of the Real Property Act 1900 by the applicant.

Signature of applicant: X [signature]

(H) CONSENT OF EXECUTOR, ADMINISTRATOR OR TRUSTEE

I,

of the deceased registered proprietor, consent to this application.

Signature of witness:

Name of witness:

Address of witness:

Signature of

Probate 11/2096/03 DOD 10/4/03.

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Evidence sighted/sighted and returned:
All handwriting must be in block capitals.

Number additional pages sequentially

Req:R351303 /Doc:DL AA856307 /Rev:09-Aug-2004 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:2 of 3
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Annexure A to TRANSMISSION APPLICATION

Parties: PHILIP LANGSFORD and PATRICK FRANCIS LAWFORD and MAURICE LLOYD

Dated: ...../...../.....

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness:

Address of witness:

Certified correct for the purposes of the Real Property Act 1900 by the applicant.

Signature of applicant:

Req:R351303 /Doc:DL AA856307 /Rev:09-Aug-2004 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:3 of 3
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

STATUTORY DECLARATION

I, KENNETH FAIRFAX of 13-15 Campbell Street, Blacktown in the State of New South Wales, Solicitor, do solemnly and sincerely declare that:-

1. I am the solicitor acting for the Estate of the Late Joan Eileen Owens.

2. I state that the late Joan Eileen Owens is one and the same person as Joan Owens.

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900, and I certify this application correct for the purposes of the Real Property Act 1900.

Subscribed and Declared)
at BLACKTOWN.)
this 4th day of August 2004)
Before me:)

.....

.....
~~Solicitor~~ / Justice of the Peace
Deidre Bickerstaff
9501422

Req:R351304 /Doc:DL AC233132 /Rev:03-May-2006 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:1 of 2
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Form: 01T
Licence: 01-08-067
Licensee: Midware Systems
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New South Wales
Real Property Act 1900

AC233132E

RELODGED
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19 APR 2006
TIME: 10-27

PRIVACY NOTE: this information is legally required and will bec...

Office of State Revenue use only

Office of State Revenue
NSW Treasury
Client No: 5700420 811
VENDOR DUTY ENDORSED
Trans No: Not Liable

Office of State Revenue
NSW Treasury
Client No: 5700420 811
Duty: $2 CANCELLED Trans No: 3154052
Ass details: 13.12.05
K O'Grady.

(A) TORRENS TITLE — Folio Identifier 26/228850

(B) LODGED BY

Delivery Box	Name, Address or DX and Telephone	CODE
302C	BOX 302G LegalStream Tel: 9231 0122 Fax: 9233 641 LLPN: 123824 M Reference (optional): STATHIS: PINTRA: MCS: KO: 05.038	T TW (Sheriff)

(C) TRANSFEROR — MAURICE LLOYD, PHILIP LANGSFORD and PATRICK FRANCIS LAWFORD

(D) CONSIDERATION — The transferor acknowledges receipt of the consideration of $ 1,425,000.00 and as regards

(E) ESTATE — the land specified above transfers to the transferee an estate in fee simple.

(F) SHARE TRANSFERRED — ~~One half share as tenant in common~~

(G) Encumbrances (if applicable):

(H) TRANSFEREE — PINTRA HOLDINGS PTY LIMITED (ARBN 29 114 030 858)

(I) TENANCY: T2

(J) DATE ..... / ..... / .....

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness: KENNETH FAIRFAX.

Address of witness: 13-15 Campbell Street
BLACKTOWN.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor: P.J. Langsford

NEW SOUTH WALES DUTY
03-04-2006 0003154052-002
SECTION 18(2)
DUTY $ **********2.00

Certified correct for the purposes of the Real Property Act 1900 and executed on behalf of the corporation named below by the authorised person(s) whose signature(s) appear(s) below pursuant to the authority specified.
Corporation: PINTRA HOLDINGS PTY LIMITED (ARBN 29 114 030 858)
Authority: Section 127 of the Corporations Act 2001

Signature of authorised person:

Name of authorised person:
Office held:

Signature of authorised person: T Pincevic

Name of authorised person: T. PINCEVIC
Office held: SOLE DIRECTOR / SECRETARY

TONY PINCEVIC

All handwriting must be in block capitals.

Number additional pages sequentially

Req:R351304 /Doc:DL AC233132 /Rev:03-May-2006 /NSW LRS /Pgs:ALL /Prt:16-Jul-2020 13:41 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:Edmondson Park 164 to 170 Croatia

Annexure A to TRANSFER

Parties: **From MAURICE LLOYD, PHILIP LANGSFORD and PATRICK FRANCIS LAWFORD to PINTRA HOLDINGS PTY LIMITED (ARBN 29 114 030 858)**

Dated: ...../...../.....

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness: GARY MACUIRA

Address of witness: 9 PARKSIDE COURT PORT MACQUARIE

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness: HENRY JOHN CRICK

Address of witness: 17 WYUNA CR EAST BALLINA

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of transferor:

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 26/228850

SEARCH DATE	TIME	EDITION NO	DATE
16/7/2020	9:21 AM	4	23/6/2016

LAND

LOT 26 IN DEPOSITED PLAN 228850
AT PRESTONS
LOCAL GOVERNMENT AREA LIVERPOOL
PARISH OF MINTO COUNTY OF CUMBERLAND
TITLE DIAGRAM DP228850

FIRST SCHEDULE

SUPER STAR HOLDING GROUP PTY LTD (T AK533175)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 L195256 COVENANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Appendix G – Borehole Logs

BOREHOLE: BH1

eiaustralia
Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH1_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL(REWORKED NATURAL): Silty CLAY; medium to high plasticity, brown, with fine to medium and sub-angular to angular gravels, with root fibres, no odour.			FILL
				0.30	BH1_0.3-0.4 ES 0.30-0.40 m PID=0.3ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, no odour.			FILL / TOPSOIL
			0.5	0.50				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
					BH1_0.7-0.8 ES 0.70-0.80 m PID=0.2ppm							
			1.0	1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH2

eiaustralia
Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH2_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.40								
					BH2_0.5-0.6 ES 0.50-0.60 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			0.5									
			1.0									
			1.5	*1.50*					Hole Terminated at 1.50 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH3

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH3_0.1-0.2 ES 0.10-0.20 m PID=0.2ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
			0.5	0.50	BH3_0.7-0.8 ES 0.70-0.80 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0	1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH4

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH4_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			MI	SILT; pale brown, with rootlets, no odour.			NATURAL
			0.5	0.50	BH4_0.7-0.8 ES 0.70-0.80 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	
			1.0	1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH5

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					MI	SILT; pale brown, with rootlets, no odour.	M	-	NATURAL
			0.5		BH5_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm							
				0.70				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			
			1.0		BH5_0.9-1.0 ES 0.90-1.00 m PID=0.2ppm							
				1.10					Hole Terminated at 1.10 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH6

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH6_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.	M	-	FILL / TOPSOIL
			0.5		BH6_0.7-0.8 ES 0.70-0.80 m PID=0.4ppm							
			1.0									
				1.10				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
					BH6_1.4-1.5 ES 1.40-1.50 m PID=0.2ppm							
			1.5	*1.50*					Hole Terminated at 1.50 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH7

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH7_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			MI	SILT; pale brown, with rootlets, no odour.			NATURAL
			0.5	0.50	BH7_0.7-0.8 ES 0.70-0.80 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	
			1.0	1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH8

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH8_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			MI	SILT; pale brown, with rootlets, no odour.			NATURAL
				0.40								
			0.5		BH8_0.6-0.7 ES 0.60-0.70 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	
				1.00								
			1.0						Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH9

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH9_0.1-0.2 ES 0.10-0.20 m PID=0.5ppm			MI	SILT; pale brown, with rootlets, no odour.			NATURAL
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			
			0.5		BH9_0.4-0.5 ES 0.40-0.50 m PID=0.5ppm					M	-	
				1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH10

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					MI	SILT; pale brown, with rootlets, no odour.			NATURAL
					BH10_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm							
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			
					BH10_0.4-0.5 ES 0.40-0.50 m PID=0.1ppm					M	-	
			0.5									
			1.0	*1.00*					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH11

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH11_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.40								
			0.5		BH11_0.6-0.7 ES 0.60-0.70 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0	1.20								
									Hole Terminated at 1.20 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH12

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH12_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			MI	SILT; pale brown, with rootlets, no odour.			NATURAL
				0.40								
			0.5		BH12_0.6-0.7 ES 0.60-0.70 m PID=0.1ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	
				1.00								
			1.0						Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH13

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH13_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
			0.5	0.60				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0	1.20	BH13_0.9-1.0 ES 0.90-1.00 m PID=0.1ppm				Hole Terminated at 1.20 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH14

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH14_0.1-0.2 ES 0.10-0.20 m PID=0.2ppm			-	FILL/TOPSOIL: Gravelly SILT; dark brown, with fine to coarse and sub-angular to angular gravels, no odour,	M	-	FILL / TOPSOIL
			0.5		BH14_0.6-0.7 ES 0.60-0.70 m PID=0.3ppm							
			1.0	1.20				CI-CH	Silty CLAY; medium to high plasticity, grey, no odour.			NATURAL
			1.5		BH14_1.4-1.5 ES 1.40-1.50 m PID=0.2ppm							
				1.70					Hole Terminated at 1.70 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH15

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
					BH15_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm							
			0.5									
				0.60					From 0.6m, with ash.			
			1.0		BH15_1.0-1.1 ES 1.00-1.10 m PID=0.1ppm					M	-	
				1.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			1.5		BH15_1.5-1.6 ES 1.50-1.60 m PID=0.2ppm							
				1.80					Hole Terminated at 1.80 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH16

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH16_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.	M	-	FILL
			0.5		BH16_0.9-1.0 ES 0.90-1.00 m PID=0.1ppm							
			1.0	*1.10*				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			1.5		BH16_1.3-1.4 ES 1.30-1.40 m PID=0.3ppm							
				1.70					Hole Terminated at 1.70 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH17

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH17_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.	M	-	FILL / TOPSOIL
			0.5									
			1.0		BH17_0.9-1.0 ES 0.90-1.00 m PID=0.1ppm							
				1.10				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			1.5		BH17_1.5-1.6 ES 1.50-1.60 m PID=0.2ppm							
				1.70					Hole Terminated at 1.70 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH18

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH18_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.40								
			0.5		BH18_0.6-0.7 ES 0.60-0.70 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0									
			1.5	*1.50*					Hole Terminated at 1.50 mBGL; Target depth reached			
			2.0									

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

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BOREHOLE: BH19

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.			NATURAL
					BH19_0.2-0.3 ES 0.20-0.30 m PID=0.1ppm					M	-	
			0.5									
			1.0	1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH20

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH20_0.2-0.3 ES 0.20-0.30 m PID=0.1ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.	M	-	NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 mBGL; Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH21

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH21_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH21_0.4-0.5 ES 0.40-0.50 m PID=0.3ppm					M	-	
				1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH22

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH22_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			0.5		BH22_0.5-0.6 ES 0.50-0.60 m PID=0.2ppm							
				0.70					Hole Terminated at 0.70 mBGL; Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH23

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH23_0.1-0.2 ES 0.10-0.20 m PID=0.2ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH23_0.4-0.5 ES 0.40-0.50 m PID=0.3ppm					M	-	
				1.00					Hole Terminated at 1.00 mBGL; Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH24

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH24_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.40				CI-CH	Silty CLAY; medium to high plasticity, orange, no odour.	M	-	NATURAL
			0.5		BH24_0.6-0.7 ES 0.60-0.70 m PID=0.2ppm							
			1.0									
				1.20					Hole Terminated at 1.20 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH25

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
					BH25_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm							
				0.20				CI-CH	Silty CLAY; medium to high plasticity, orange mottled grey, no odour.			NATURAL
					BH25_0.4-0.5 ES 0.40-0.50 m PID=0.2ppm					M	-	
			0.5									
			1.0									
				1.20					Hole Terminated at 1.20 mBGL; Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH26

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH26_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, grey, no odour.	M	-	NATURAL
			0.5		BH26_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm							
			1.0									
				1.30					Hole Terminated at 1.30 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH27

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH27_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH27_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm					M	-	
			1.0	*1.30*								
									Hole Terminated at 1.30 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH28

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, orange, with root fibres, no odour.			NATURAL
					BH28_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm					M	-	
			0.5									
			1.0	1.00					Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH29

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH29_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, orange, with root fibres, no odour.	M	-	NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH30

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH30_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH30_0.5-0.6 ES 0.50-0.60 m PID=0.2ppm					M	-	
				1.00								
			1.0						Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH31

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.			NATURAL
					BH31_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm					M	-	
			0.5									
			1.0	1.00					Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH32

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.	M	-	NATURAL
					BH32_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm							
			0.5									
			1.0									
					BH32_1.4-1.5 ES 1.40-1.50 m PID=0.3ppm							
			1.5	*1.50*					Hole Terminated at 1.50 m Target depth reached			
			2.0									

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

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BOREHOLE: BH33

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.	M	-	NATURAL
					BH33_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm							
			0.5		BH33_0.7-0.8 ES 0.70-0.80 m PID=0.2ppm							
			1.0	*1.20*								
									Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH34

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH34_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.40								
			0.5		BH34_0.6-0.7 ES 0.60-0.70 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0									
				1.30					Hole Terminated at 1.30 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH35

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH35_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH35_0.5-0.6 ES 0.50-0.60 m PID=0.2ppm					M	-	
			1.0	*1.20*								
									Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH36

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, with root fibres, no odour.	M	-	NATURAL
					BH36_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm							
			0.5		BH36_0.7-0.8 ES 0.70-0.80 m PID=0.1ppm							
				0.80					Hole Terminated at 0.80 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

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BOREHOLE: BH37

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH37_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH37_0.4-0.5 ES 0.40-0.50 m PID=0.2ppm					M	-	
			1.0	1.00					Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH38

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH38_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.40								
			0.5		BH38_0.6-0.7 ES 0.60-0.70 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0	1.10								
									Hole Terminated at 1.10 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH39

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH39_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.40								
			0.5		BH39_0.6-0.7 ES 0.60-0.70 m PID=0.2ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0									
				1.20					Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH40

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH40_0.1-0.2 ES 0.10-0.20 m PID=0.5ppm			-	FILL/TOPSOIL: Clayey SILT, dark grey, with root fibres, no odour.			FILL / TOPSOIL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH40_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm					M	-	
				1.00								
			1.0						Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH41

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH41_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL: Sandy CLAY; medium to high plasticity, dark grey, with gravels, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			0.5		BH41_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm							
			1.0									
				1.20					Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH42

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH42_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH42_0.5-0.6 ES 0.50-0.60 m PID=0.2ppm					M	-	
				1.00								
			1.0						Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH43

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH43_0.1-0.2 ES 0.10-0.20 m PID=0.3ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH43_0.5-0.6 ES 0.50-0.60 m PID=0.4ppm					M	-	
			1.0	*1.10*					Hole Terminated at 1.10 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH44

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH44_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH44_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm					M	-	
			1.0	1.10					Hole Terminated at 1.10 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH45

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH45_0.1-0.2 ES 0.10-0.20 m PID=0.1ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.40								
			0.5		BH45_0.6-0.7 ES 0.60-0.70 m PID=0.3ppm			CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			1.0	*1.20*								
									Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

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BOREHOLE: BH46

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Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH46_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	TOPSOIL: Sandy SILT; grey, with gravels, with rootlets, no odour.			TOPSOIL
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
					BH46_0.4-0.5 ES 0.40-0.50 m PID=0.2ppm					M	-	
			0.5									
				1.00								
			1.0						Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH47

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
					BH47_0.1-0.2 ES 0.10-0.20 m PID=0.5ppm							
				0.20				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
					BH47_0.4-0.5 ES 0.40-0.50 m PID=0.3ppm					M	-	
			0.5									
			1.0									
				1.20					Hole Terminated at 1.20 m Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH48

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH48_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
			0.5		BH48_0.5-0.6 ES 0.50-0.60 m PID=0.3ppm					M	-	
			1.0	*1.10*					Hole Terminated at 1.10 m Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH49

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0					CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.			NATURAL
					BH49_0.1-0.2 ES 0.10-0.20 m PID=0.4ppm					M	-	
			0.5		BH49_0.7-0.8 ES 0.70-0.80 m PID=0.2ppm							
			1.0	1.00					Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

BOREHOLE: BH50

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Contamination | Remediation | Geotechnical

Project	Detailed Site Investigation			Sheet	1 OF 1
Location	164-170 Croatia Ave, Edmondson Park NSW			Date Started	23/7/20
Position	Refer to Figure 2			Date Completed	23/7/20
Job No.	E24744.E02	Contractor	Hartgeo Drilling Pty Ltd	Logged LC	Date:
Client	Super Star Holding Group Pty Ltd	Drill Rig	UTE-Mounted Drilling Rig	Checked	Date:
		Inclination	-90°		

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
AD/T	-	GWNE	0.0		BH50_0.1-0.2 ES 0.10-0.20 m PID=0.2ppm			-	FILL: Silty CLAY; medium to high plasticity, pale grey, with gravels, and root fibres, no odour.			FILL
				0.30				CI-CH	Silty CLAY; medium to high plasticity, pale brown to orange, no odour.	M	-	NATURAL
			0.5		BH50_0.5-0.6 ES 0.50-0.60 m PID=0.4ppm							
			1.0	*1.00*					Hole Terminated at 1.00 m Target depth reached			
			1.5									
			2.0									

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

EIA LIB 1.03.GLB Log IS AU BOREHOLE 3 E24744.E02.GPJ <<DrawingFile>> 13/08/2020 17:02 10.0.000 Datgel Lab and In Situ Tool - DGD | Lib: EIA 1.03 2014-07-05 Prj: EIA 1.03 2014-07-05

Appendix H – PID Calibration Sheet

EI Australia
Suite 6.01, 55 Miller Street
PYRMONT, NSW, 2009

ABN 33 102 449 507
E service@eiaustralia.com.au
W www.eiaustralia.com.au
T 02 9516 0722

CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI **PID02** ☐ **OR** 592-901345 - EI **PID03** ☑

Instrument Conditions: fine

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: Lot 1074828 Cyl 102.

This PID has been calibrated to Isobutylene gas with the span concentration displayed as 100 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 7 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Signed: Lance Chen

Date: 23/07/2020.

Time: 8:15 AM.

Appendix I – Chain of Custody and Sample Receipt Forms

Sheet 1 of 10

Site: 164-170 Croatia Avenue Edmondson Park

Project No: E24744

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 9 3

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM Δ /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM Δ /TRH/BTEX/PAHs	HM Δ /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	PH	CEC	HOLD	TCLP HM B / PAH
BH1_0.1-0.2	1	J, ZLB	24/07/20			X		X															
BH1_0.3-0.4	2	↓							X														
BH1_0.7-0.8	3	J						X												✓			
BH2_0.1-0.2	4	J, ZLB						X															
BH2_0.5-0.6	5	J						X															
BH3_0.1-0.2	6	J, ZLB						X															
BH3_0.7-0.8	7	J,						X													X		
BH4_0.1-0.2	8	J, ZLB						X															
BH4_0.7-0.8	9	J							X														
BH5_0.1-0.2	10	J, ZLB						X															
BH5_0.9-1.0	11	J.							X										✓				
BH6_0.1-0.2	12	J, ZLB	↓					X															

SGS EHS Sydney COC
SE209178

Comments

HM Δ
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND
- [x] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chen	Print: Suba
Signature:	Signature:
Date: 25/07/20	Date: 24/07/20 @ 4.2

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

Sampler's Comments:
Please cc Emmanuel the report.

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

source (untitled).pdf page 1 SGS Ref: SE209178_COC

Sheet 2 of 10

Site: 164-170 Croatia Avenue Edmondson Park

Project No: E34744

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 3 2

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS		Hold		TCLP HM B / PAH
BH6_0.7-0.8	13	J, ZLB	24/7/20			X			X														
BH6_1.4-1.5		J.																			X		
BH7_0.1-0.2		J, ZLB																.			X		
BH7_0.7-0.8		J.																			X		
BH8_0.1-0.2	14	J, ZLB						X															
BH8_0.6-0.7	15	J.							X														
BH9_0.1-0.2		J, ZLB																			X		
BH9_0.4-0.5		J.																.			X		
BH10_0.1-0.2	16	J, ZLB						X															
BH10_0.4-0.5	17	J						X															
BH11_0.1-0.2		J, ZLB																			X		
BH11_0.6-0.7		J	✓			↓															X		

Comments

HM A
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [x] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chan	Print: Suba
Signature:	Signature:
Date: 25/07/20	Date: 24/07/20 @ 4.N

Sampler's Comments:
Please CC Emmanuel the report.

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

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

Sheet 3 of 10

Site: AS Last Page

Project No:

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 5

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	PH	CEC	Hold	TCLP HM [B] / PAH
BH12_0.1-0.2	18	J, ZLB	24/07/20			X			X														
BH12_0.6-0.7		J																				X	
BH13_0.1-0.2	19	J, ZLB						X															
BH13_0.9-1.0	20	J						X											X				
BH14_0.1-0.2	21	J, ZLB							X														
BH14_0.6-0.7	22	J, ZLB							X														
BH14_1.4-1.5		J																				X	
BH15_0.1-0.2	23	J, ZLB						X															
BH15_1.0-1.1	24	J						X															
BH15_1.5-1.6	25	J						X													X		
BH16_0.1-0.2		J, ZLB																				X	
BH16_0.9-1.0		J	↓			↓																X	

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [x] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chen	Print: Subha
Signature:	Signature:
Date: 25/07/20	Date: 24/07/20 @4.1m

Sampler's Comments:
AS last Page

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

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

Sheet 4 of 10

Site: AS last Page

Project No:

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 6 1

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	PH	Hold		TCLP HM [B] / PAH
BH16-1.3-1.4		J	24/7/20			X															X		
BH17-0.1-0.2	26	J, ZLB						X															
BH17-0.9-1.0	27	↓						X															
BH17-1.5-1.6	28	J						X															
BH18-0.1-0.2		J, ZLB																			X		
BH18-0.6-0.7		J																			X		
BH19-0.2-0.3		J, ZLB																			X		
BH20-0.2-0.3	29	J, ZLB						X												X			
BH21-0.1-0.2	30	J, ZLB						X															
BH21-0.4-0.5		J																			X		
BH22-0.1-0.2	31	J, ZLB						X															
BH22-0.5-0.6	32	J							X														

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

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND
- [x] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

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

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chan	Print: Suba
Signature:	Signature:
Date: 25/7/20	Date: 24/07/20 @ 4.1

Sampler's Comments:
AS last Page

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

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

Sheet 5 of 10

Site: A3 last Page

Project No:

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 5

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Hold			TCLP HM [B] / PAH
BH23_0.1-0.2		J, ZLB	24/07/20			✓														X			
BH23_0.4-0.5		J.																		X			
BH24_0.1-0.2	33	J, ZLB						X															
BH24_0.6-0.7	34	J						X															
BH25_0.1-0.2	35	J, ZLB						X										•					
BH25_0.4-0.5	36	J.						X															
BH26_0.1-0.2		J, ZLB																		X			
BH26_0.5-0.6		J.																		X			
BH27_0.1-0.2		J, ZLB																		X			
BH27_0.5-0.6		J																•		X			
BH28_0.1-0.2	37	J, ZLB						X															
BH29_0.1-0.2		J, ZLB				✓														X			

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chen	Print: Suba
Signature:	Signature:
Date: 25/07/20	Date: 24/07/20 @ 4pm

Sampler's Comments:
A3 last Page

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

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

Sheet 6 of 10

Site: As last page

Project No:

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: 4 2

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM[A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM[A] /TRH/BTEX/PAHs	HM[A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	HOLD			TCLP HM[B] / PAH
BH30_0.1-0.2	38	J, ZLP	24/9/20			X		X															
BH30_0.5-0.6	39	J						X															
BH31_0.1-0.2		J, ZLP																		X			
~~BH31_0.5-0.6~~		~~J~~																		~~X~~			
BH32_0.1-0.2	40	J, ZLP						X															
BH32_1.4-1.5	41	J,							X														
BH33_0.1-0.2		J, ZLP																		X			
BH33_0.7-0.8		J																		X			
BH34_0.1-0.2	42	J, ZLP						X															
BH34_0.6-0.7	43	J							X														
BH35_0.1-0.2		J, ZLP																		X			
BH35_0.5-0.6		J																		X			

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

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Contamination | Remediation | Geotechnical

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

COC March 2018 FORM v.1 - SGS

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

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chan	Print: Suba
Signature:	Signature:
Date: 25/9/20	Date: 24/07/20 @4pm

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

Report with EI Waste Classification Table ☐

Sampler's Comments:
As last page

Comments

HM[A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM[B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
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_____

Sheet 7 of 10

Site: As last Page

Project No: E24744

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	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	24	Hold		TCLP HM [B] / PAH
BH36_0.1-0.2	44	J,ZLB	24/07/20			X		X															
BH36_0.7-0.9	45	J							X											X			
BH37_0.1-0.2		J,ZLB																			X		
BH37_0.4-0.5		J																			X		
BH38_0.1-0.2	46	J,ZLB						X															
BH38_0.6-0.7	47	J							X														
BH39_0.1-0.2		J,ZLB																			X		
BH39_0.6-0.7		J																			X		
BH40_0.1-0.2	48	J,ZLB						X															
BH40_0.5-0.6	49	J							X														
BH41_0.1-0.2	50	J,ZLB						X															
BH41_0.5-0.6	51	J	✓			✓		X															

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

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND
- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other____

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

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lana Chan	Print: Suba
Signature:	Signature:
Date: 24/07/20	Date: 24/07/20

Sampler's Comments: As last Page

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

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PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 8 of 10

Site: As last page

Project No:

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	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	PH	Hold		TCLP HM [B] / PAH
BH42_0.0-0.2		J, ZLB																			X		
BH42_0.5-0.6		J																			X		
BH43_0.1-0.2		J, ZLB																			X		
BH43_0.5-0.6		J																			X		
BH44_0.1-0.2	52	J, ZLB							X														
BH44_0.5-0.6	53	J							X														
BH45_0.1-0.2		J, ZLB																			X		
BH45_0.6-0.7		J																			X		
BH46_0.1-0.2	54	J, ZLB						X															
BH48_0.4-0.5	55	J							X														
BH47_0.1-0.2	56	J, ZLB						X															
BH47_0.4-0.5	57	J							X											X			

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

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [x] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other ____

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

COC March 2018 FORM v.4 - SGS

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

Sampler's Name (EI):	Received by (SGS):
Print: Lance Chen	Print: Suba
Signature:	Signature:
Date: 25/07/20.	Date: 24/07/20 04:20

Report with EI Waste Classification Table ☐

Sampler's Comments:
As last page

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

9

Sheet 1 of 10

Site: AS last Page

Project No:

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample Matrix: F1

Analysis

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM Δ /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM Δ /TRH/BTEX/PAHs	HM Δ /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	CEC	HCID		TCLP HM B / PAH
BH48_0.1-0.2		J.ZLB	24/07/20			✓															X		
BH48_0.5-0.6		J.																			X		
BH49_0.1-0.2		J.ZLB																			X		
BH49_0.7-0.8		J																			X		
BH50_0.1-0.2	58	J.ZLB						X															
BH50_0.5-0.6	59	J							X											X			
BH QD1	60	J						X															
BHQD2	61							X															
BHQD3	62							X															
BHQD4																							
BHQD5.		↓	↓			↓																	

Comments

HM Δ
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [x] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print Terence Chen	Print Suba
Signature	Signature
Date 25/07/20.	Date 24/07/20 @4.~

Sampler's Comments:
AS last Page

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

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

Sheet 10 of 10

Site: As last page

Project No:

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	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Held			TCLP HM [B] / PAH
TB	63	Lab Prepared	21			X					X												
TS	64					X					X												
BHQR1	65	SPVC	24/01/20		X					X													
BHQRB1		SPVC	24/01/20		X															X			

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] 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 ☐

Sampler's Name (EI):	Received by (SGS):
Print: Lanee Che	Print: Suba
Signature:	Signature:
Date: 25/01/20	Date: 24/07/20 @ 4pm

Sampler's Comments: As last page

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

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

Yin, Emily (Sydney)

From: Lance Chen - EIAustralia <lance.chen@eiaustralia.com.au>
Sent: Tuesday, 28 July 2020 9:15 AM
To: Yin, Emily (Sydney)
Cc: Emmanuel Woelders - EIAustralia
Subject: [EXTERNAL] FW: SE209178 - E24744
Attachments: [Untitled]_2020072721052921.pdf; ATT00001.htm

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

Good morning Emily,

For BH5_0.9-1.0, Please test heavy metal, TRH, BTEX, PAHs and PH

For BH3_0.7-0.8, Please test full suite and CEC,

For other samples, please refer to the COC

Lance(Liangshi) Chen
Environmental Engineer

T 02 9516 0722 M 0415 682 248
E lance.chen@eiaustralia.com.au

Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009

www.eiaustralia.com.au

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Please consider the environment before printing this email

From: Emmanuel Woelders - EIAustralia
Sent: Tuesday, 28 July 2020 8:39 AM
To: Lance Chen - EIAustralia
Subject: Fwd: SE209178 - E24744

Sent from my iPhone

Begin forwarded message:

> **From:** "Yin, Emily (Sydney)" <Emily.Yin@sgs.com>
> **Date:** 27 July 2020 at 9:09:43 pm AEST
> **To:** Lan Ye - EIAustralia <lan.ye@eiaustralia.com.au>, "Emmanuel Woelders - EIAustralia"

SAMPLE RECEIPT ADVICE

SE209178

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	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	65

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 24/7/2020
Report Due	Fri 31/7/2020
SGS Reference	**SE209178**

SUBMISSION DETAILS

This is to confirm that 65 samples were received on Friday 24/7/2020. Results are expected to be ready by COB Friday 31/7/2020. Please quote SGS reference SE209178 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	64 Soil, 1 Water
Date documentation received	24/7/2020	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	5.7°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

44 Soil and 1 Water have been placed on hold as no tests have been assigned for them by the client . These samples will not be processed.
For samples where a separate portion was not supplied for Asbestos analysis , a sub-sample will be used from the jar provided.

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.

SAMPLE RECEIPT ADVICE

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1_0.1-0.2	29	14	26	11	-	10	11	7
002	BH1_0.3-0.4	-	-	26	-	-	10	11	7
003	BH1_0.7-0.8	29	14	26	11	1	10	11	7
004	BH2_0.1-0.2	29	14	26	11	-	10	11	7
005	BH2_0.5-0.6	29	14	26	11	-	10	11	7
006	BH3_0.1-0.2	29	14	26	11	-	10	11	7
007	BH3_0.7-0.8	29	14	26	11	-	10	11	7
008	BH4_0.1-0.2	29	14	26	11	-	10	11	7
009	BH4_0.7-0.8	-	-	26	-	-	10	11	7
010	BH5_0.1-0.2	29	14	26	11	-	10	11	7
011	BH5_0.9-1.0	-	-	26	-	1	10	11	7
012	BH6_0.1-0.2	29	14	26	11	-	10	11	7
013	BH6_0.7-0.8	-	-	26	-	-	10	11	7
014	BH8_0.1-0.2	29	14	26	11	-	10	11	7
015	BH8_0.6-0.7	-	-	26	-	-	10	11	7
016	BH10_0.1-0.2	29	14	26	11	-	10	11	7
017	BH10_0.4-0.5	29	14	26	11	-	10	11	7
018	BH12_0.1-0.2	-	-	26	-	-	10	11	7
019	BH13_0.1-0.2	29	14	26	11	-	10	11	7
020	BH13_0.9-1.0	29	14	26	11	1	10	11	7
021	BH14_0.1-0.2	-	-	26	-	-	10	11	7
022	BH14_0.6-0.7	-	-	26	-	-	10	11	7
023	BH15_0.1-0.2	29	14	26	11	-	10	11	7
024	BH15_1.0-1.1	29	14	26	11	-	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 .

SAMPLE RECEIPT ADVICE

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	BH15_1.5-1.6	29	14	26	11	-	10	11	7
026	BH17_0.1-0.2	29	14	26	11	-	10	11	7
027	BH17_0.9-1.0	29	14	26	11	-	10	11	7
028	BH17_1.5-1.6	29	14	26	11	-	10	11	7
029	BH20_0.2-0.3	29	14	26	11	1	10	11	7
030	BH21_0.1-0.2	29	14	26	11	-	10	11	7
031	BH22_0.1-0.2	29	14	26	11	-	10	11	7
032	BH22_0.5-0.6	-	-	26	-	-	10	11	7
033	BH24_0.1-0.2	29	14	26	11	-	10	11	7
034	BH24_0.6-0.7	29	14	26	11	-	10	11	7
035	BH25_0.1-0.2	29	14	26	11	-	10	11	7
036	BH25_0.4-0.5	29	14	26	11	-	10	11	7
037	BH28_0.1-0.2	29	14	26	11	-	10	11	7
038	BH30_0.1-0.2	29	14	26	11	-	10	11	7
039	BH30_0.5-0.6	29	14	26	11	-	10	11	7
040	BH32_0.1-0.2	29	14	26	11	-	10	11	7
041	BH32_1.4-1.5	-	-	26	-	-	10	11	7
042	BH34_0.1-0.2	29	14	26	11	-	10	11	7
043	BH34_0.6-0.7	-	-	26	-	-	10	11	7
044	BH36_0.1-0.2	29	14	26	11	-	10	11	7
045	BH36_0.7-0.8	-	-	26	-	1	10	11	7
046	BH38_0.1-0.2	29	14	26	11	-	10	11	7
047	BH38_0.6-0.7	-	-	26	-	-	10	11	7
048	BH40_0.1-0.2	29	14	26	11	-	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 .

SAMPLE RECEIPT ADVICE

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	pH in soil (1:5)	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
049	BH40_0.5-0.6	-	-	26	-	-	10	11	7
050	BH41_0.1-0.2	29	14	26	11	-	10	11	7
051	BH41_0.5-0.6	29	14	26	11	-	10	11	7
052	BH44_0.1-0.2	-	-	26	-	-	10	11	7
053	BH44_0.5-0.6	-	-	26	-	-	10	11	7
054	BH46_0.1-0.2	29	14	26	11	-	10	11	7
055	BH46_0.4-0.5	-	-	26	-	-	10	11	7
056	BH47_0.1-0.2	29	14	26	11	-	10	11	7
057	BH47_0.4-0.5	-	-	26	-	1	10	11	7
058	BH50_0.1-0.2	29	14	26	11	-	10	11	7
059	BH50_0.5-0.6	-	-	26	-	-	10	11	7
060	BHQD1	29	14	26	11	-	10	11	7
061	BHQD2	29	14	26	11	-	10	11	7
062	BHQD3	29	14	26	11	-	10	11	7
063	TB	-	-	-	-	-	-	11	-
064	TS	-	-	-	-	-	-	11	-

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

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
001	BH1_0.1-0.2	-	2	1	1	7
002	BH1_0.3-0.4	-	-	1	1	7
003	BH1_0.7-0.8	-	2	1	1	7
004	BH2_0.1-0.2	-	2	1	1	7
005	BH2_0.5-0.6	-	2	1	1	7
006	BH3_0.1-0.2	-	2	1	1	7
007	BH3_0.7-0.8	13	2	1	1	7
008	BH4_0.1-0.2	-	2	1	1	7
009	BH4_0.7-0.8	-	-	1	1	7
010	BH5_0.1-0.2	-	2	1	1	7
011	BH5_0.9-1.0	-	-	1	1	7
012	BH6_0.1-0.2	-	2	1	1	7
013	BH6_0.7-0.8	-	-	1	1	7
014	BH8_0.1-0.2	-	2	1	1	7
015	BH8_0.6-0.7	-	-	1	1	7
016	BH10_0.1-0.2	-	2	1	1	7
017	BH10_0.4-0.5	-	2	1	1	7
018	BH12_0.1-0.2	-	-	1	1	7
019	BH13_0.1-0.2	-	2	1	1	7
020	BH13_0.9-1.0	-	2	1	1	7
021	BH14_0.1-0.2	-	-	1	1	7
022	BH14_0.6-0.7	-	-	1	1	7
023	BH15_0.1-0.2	-	2	1	1	7
024	BH15_1.0-1.1	-	2	1	1	7

CONTINUED OVERLEAF

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

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
025	BH15_1.5-1.6	13	2	1	1	7
026	BH17_0.1-0.2	-	2	1	1	7
027	BH17_0.9-1.0	-	2	1	1	7
028	BH17_1.5-1.6	-	2	1	1	7
029	BH20_0.2-0.3	-	2	1	1	7
030	BH21_0.1-0.2	-	2	1	1	7
031	BH22_0.1-0.2	-	2	1	1	7
032	BH22_0.5-0.6	-	-	1	1	7
033	BH24_0.1-0.2	-	2	1	1	7
034	BH24_0.6-0.7	-	2	1	1	7
035	BH25_0.1-0.2	-	2	1	1	7
036	BH25_0.4-0.5	-	2	1	1	7
037	BH28_0.1-0.2	-	2	1	1	7
038	BH30_0.1-0.2	-	2	1	1	7
039	BH30_0.5-0.6	-	2	1	1	7
040	BH32_0.1-0.2	-	2	1	1	7
041	BH32_1.4-1.5	-	-	1	1	7
042	BH34_0.1-0.2	-	2	1	1	7
043	BH34_0.6-0.7	-	-	1	1	7
044	BH36_0.1-0.2	-	2	1	1	7
045	BH36_0.7-0.8	-	-	1	1	7
046	BH38_0.1-0.2	-	2	1	1	7
047	BH38_0.6-0.7	-	-	1	1	7
048	BH40_0.1-0.2	-	2	1	1	7

CONTINUED OVERLEAF

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

SAMPLE RECEIPT ADVICE

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
049	BH40_0.5-0.6	-	-	1	1	7
050	BH41_0.1-0.2	-	2	1	1	7
051	BH41_0.5-0.6	-	2	1	1	7
052	BH44_0.1-0.2	-	-	1	1	7
053	BH44_0.5-0.6	-	-	1	1	7
054	BH46_0.1-0.2	-	2	1	1	7
055	BH46_0.4-0.5	-	-	1	1	7
056	BH47_0.1-0.2	-	2	1	1	7
057	BH47_0.4-0.5	-	-	1	1	7
058	BH50_0.1-0.2	-	2	1	1	7
059	BH50_0.5-0.6	13	-	1	1	7
060	BHQD1	-	2	1	1	7
061	BHQD2	-	2	1	1	7
062	BHQD3	-	2	1	1	7
063	TB	-	-	-	1	-

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

SE209178

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
065	BHQR1	1	7	9	11	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 .

Sheet 1 of 1

Site:	Project No:
164-170 Croatia Avenue Edmondson Park	E24744

Laboratory: Eurofins Environment Testing Aust. P/L
6 / 16 Mars Road,
Lane Cove NSW 2066
P: 02 9900 8400

	Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM[A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM[A] /TRH/BTEX/PAHs	HM[A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Field.			TCLP HM[B] / PAH
1	BHQT1		J	24/7/20			X				X													
2	BHQT2		↓	↓			↓				↓													
3	BHQT3		↓	↓			↓				↓													
4	BHQT4		↓	↓			↓				↓										X			
5	BHQT5		↓	↓			↓				↓										X			

Comments

HM[A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM[B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 247704

Date Received: 24/7/2020
Time Received: 17:15
Received By: R.L.
Temp: Cool/Ambient
Cooling: Ice/Icepack 10.1
Security: Intact/Broken/None

LABORATORY TURNAROUND

- [X] 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 ☐

Sampler's Name (EI):	Received by (Eurofins):
Print: Lance Chan	Print:
Signature:	Signature:
Date: 25/07/20	Date:

Sampler's Comments:
Please CC Emmanuel the report.

eiaustralia
Investigation | Remediation | Geotechnical

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

COC March 2018 FORM v.4 - SGS

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

source: [Untitled]_20200818141047.pdf page: 1 SGS Ref: SE209178A_COC

Yin, Emily (Sydney)

From: Lance Chen - ElAustralia <lance.chen@eiaustralia.com.au>
Sent: Monday, 17 August 2020 4:19 PM
To: AU.Environmental.Sydney (Sydney); AU.SampleReceipt.Sydney (Sydney)
Cc: Emmanuel Woelders - ElAustralia; Darren Hanvey - ElAustralia; Crawford, Huong (Sydney)
Subject: [EXTERNAL] RE: Report Job SE209178, your reference E24744 164-170 Croatia Avenue Edmondson, order number E24744

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

Sample receipt,

#25

Please test for TCLP Lead(Pb) on sample BH15_1.5-1.6 on a 3 days TAT.

Lance(Liangshi) Chen

Environmental Engineer

T 02 9516 0722 M 0415 682 248
E lance.chen@eiaustralia.com.au

Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009

www.eiaustralia.com.au

SGS EHS Alexandria Laboratory
SE209178A COC
Received: 17 – Aug – 2020

Environmental | Geotechnical | Structural | Civil | Hazardous Materials

EI Australia is a proud member of the Australian Contaminated Land Consultants Association and the Australian Geomechanics Society.

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-----Original Message-----
From: AU.Environmental.Sydney@SGS.com [mailto:AU.Environmental.Sydney@SGS.com]

Yin, Emily (Sydney)

From: AU.Environmental.Sydney (Sydney)
Sent: Monday, 17 August 2020 4:50 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: FW: [EXTERNAL] Re: Report Job SE209721, your reference JN1637/Bondi, order number

FYA, thanks, same day TAT.

Kind Regards,

Huong Crawford
Environment, Health & Safety
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
SE209721B COC
Received: 17 – Aug – 2020

From: Craig Wellings <craig@ehoc.com.au>
Sent: Monday, 17 August 2020 4:30 PM
To: AU.Environmental.Sydney (Sydney) <AU.Environmental.Sydney@sgs.com>
Subject: [EXTERNAL] Re: Report Job SE209721, your reference JN1637/Bondi, order number

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

Hi Team,
we need urgent additional TCLP on the following 14 samples from this batch for B(a)P.
P1A-P7A and P1B-P7B.

Turnaround as fast as possible.
Can you please let me know what can be achieved?

Thanks and Regards,

Craig Wellings
Manager - Environmental Services
EHO Consulting Pty Ltd
0491 231 182

16/380 Pennant Hills Road,

Yin, Emily (Sydney)

From: AU.Environmental.Sydney (Sydney)
Sent: Monday, 17 August 2020 5:08 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: FW: [EXTERNAL] Re: Report Job SE209721, your reference JN1637/Bondi, order number

Hi Emily,

Please see below, 5 more TCLP added to the additional job due tomorrow. Thanks.

Kind Regards,

Huong Crawford
Environment, Health & Safety
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

From: Craig Wellings <craig@ehoc.com.au>
Sent: Monday, 17 August 2020 4:53 PM
To: AU.Environmental.Sydney (Sydney) <AU.Environmental.Sydney@sgs.com>
Subject: Re: [EXTERNAL] Re: Report Job SE209721, your reference JN1637/Bondi, order number

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

Hi Huong,
understood, thanks.

I also need 5 more samples from the same batch included please:
SP1-SP5.

Please let me know if there will be any problems with adding these to the request.

Thanks

Regards,

SGS EHS Alexandria Laboratory
SE209664B COC
Received: 17 – Aug – 2020

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750 Tel: (02) 4722 2700

CHAIN OF CUSTODY

Results Required By: 24 hrs **Date: Tuesday, 18 August 2020**

Except pH Results Required By - **Date:**

Your Reference No.: SE209664

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015
Tel: 02 8594 0400

Sampled By: **SS** Ref No: **14305/8 -18** Project Manager: **ANWAR BARBHUYIA**

Location: **Menangle**

Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Pb	Asbestos 0.001% w/w	TCLP Pb	BTEX	TRH & BTEX	PAH	OCP	OCP & PCB	Phenol	Cyanide	VOC	OCP OPP & PCB
FCP5	0.0-0.15	05/08/20	GP		Clay				✓											✓	✓	✓		

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	AB	17/08/20	Emily Yu		17/8 @ 11.14am

WG: Water sample (glass bottle) G Soil sample (glass jar) FCP Fibro Cement Piece (plastic bag) *: As,Cd,Cr,Cu,Pb,Hg,Ni & Zn (8 metals)

WP: Water sample (plastic bottle) P Soil sample (plastic bag) ✓ Test required

SAMPLE RECEIPT ADVICE

SE209178A

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	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	65

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	Mon 17/8/2020
Report Due	Thu 20/8/2020
SGS Reference	**SE209178A**

SUBMISSION DETAILS

This is to confirm that 65 samples were received on Monday 17/8/2020. Results are expected to be ready by COB Thursday 20/8/2020. Please quote SGS reference SE209178A 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 Soil
Date documentation received	17/8/2020@4:19pm	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	5.7°C	Sufficient sample for analysis	Yes
Turnaround time requested	Three Days		

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

SE209178A

CLIENT DETAILS

Client EI AUSTRALIA

Project E24744 164-170 Croatia Avenue Edmondson

SUMMARY OF ANALYSIS

No.	Sample ID	Metals in TCLP Extract by ICPOES	TCLP (Toxicity Characteristic Leaching
025	BH15_1.5-1.6	1	6

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Appendix J – Laboratory Analytical Reports

VOC's in Soil [AN433] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
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	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
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	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
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

VOC's in Soil [AN433] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
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	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
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	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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

VOC's in Soil [AN433] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
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	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
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

VOC's in Soil [AN433] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062	TB SOIL - 24/7/2020 SE209178.063	TS SOIL - 24/7/2020 SE209178.064
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	[95%]
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	[97%]
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	[97%]
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	[96%]
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	[97%]
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	-
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	-
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
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	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
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	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
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	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
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	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
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	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
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	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
TRH C6-C9	mg/kg	20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
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	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
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	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
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	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
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	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
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	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
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	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
TRH C10-C14	mg/kg	20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45
TRH C29-C36	mg/kg	45	**51**	<45
TRH C37-C40	mg/kg	100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	**0.2**	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	**0.1**	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
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	**0.2**	<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	**0.3**	<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	**0.7**	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	**0.4**	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	**0.9**	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	**0.3**	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	**0.2**	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	**0.2**	<0.1	<0.1
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	**0.2**	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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**	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	**0.3**	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	**3.8**	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	**3.6**	<0.8	<0.8

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
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	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<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	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
Naphthalene	mg/kg	0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	**0.2**	<0.1
1-methylnaphthalene	mg/kg	0.1	**0.3**	<0.1
Acenaphthylene	mg/kg	0.1	**0.2**	<0.1
Acenaphthene	mg/kg	0.1	**0.7**	<0.1
Fluorene	mg/kg	0.1	**0.2**	<0.1
Phenanthrene	mg/kg	0.1	**1.2**	<0.1
Anthracene	mg/kg	0.1	**0.3**	<0.1
Fluoranthene	mg/kg	0.1	**0.8**	<0.1
Pyrene	mg/kg	0.1	**2.2**	<0.1
Benzo(a)anthracene	mg/kg	0.1	**0.3**	<0.1
Chrysene	mg/kg	0.1	**0.5**	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	**0.6**	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	**0.2**	<0.1
Benzo(a)pyrene	mg/kg	0.1	**0.6**	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.4**	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	**0.6**	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	**0.8**	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	**0.9**	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	**0.8**	<0.2
Total PAH (18)	mg/kg	0.8	**9.3**	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	**8.8**	<0.8

OC Pesticides in Soil [AN420] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	-	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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	-	<0.1	-
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	-
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	-	<1	-	<1	-

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	-	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
Hexachlorobenzene (HCB)	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	-	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	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
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	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
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Endrin	mg/kg	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
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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	-	<0.1	-
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	-
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	-	<1	-	<1	-

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Endrin	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	-	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	-	-	<0.1	-
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	-
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	<1	-	-	<1	-

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Lindane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Heptachlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Aldrin	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Beta BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Delta BHC	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Dieldrin	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Endrin	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Methoxychlor	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Isodrin	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Mirex	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	-	<1	-	<1

OC Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
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	<0.1
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
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	<1	<1

OP Pesticides in Soil [AN420] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006
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	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014
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	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023
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

OP Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028
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	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034
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	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039
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

OP Pesticides in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048
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	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058
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	BHQD1 SOIL - 24/7/2020 SE209178.060	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	<1	<1

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	-	<1

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
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	-

PCBs in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	<1	<1

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
Arochlor 1016	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	-	<1	<1	<1

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
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

PCBs in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	<1	<1

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
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	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
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	-

PCBs in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	-	<1

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
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	-

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
Arochlor 1016	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	<0.2	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	<1	-	<1

PCBs in Soil [AN420] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
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

pH in soil (1:5) [AN101] Tested: 30/7/2020

PARAMETER	UOM	LOR	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
pH	pH Units	0.1	**6.3**	**4.9**	**4.5**	**5.7**	**5.7**

PARAMETER	UOM	LOR	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057
pH	pH Units	0.1	**7.8**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 29/7/2020

PARAMETER	UOM	LOR	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059
Exchangeable Sodium, Na	mg/kg	2	170	390	650
Exchangeable Sodium, Na	meq/100g	0.01	0.72	1.7	2.8
Exchangeable Sodium Percentage*	%	0.1	6.7	12.2	22.6
Exchangeable Potassium, K	mg/kg	2	96	76	79
Exchangeable Potassium, K	meq/100g	0.01	0.24	0.20	0.20
Exchangeable Potassium Percentage*	%	0.1	2.3	1.4	1.6
Exchangeable Calcium, Ca	mg/kg	2	740	1400	78
Exchangeable Calcium, Ca	meq/100g	0.01	3.7	6.9	0.39
Exchangeable Calcium Percentage*	%	0.1	34.3	49.8	3.1
Exchangeable Magnesium, Mg	mg/kg	2	740	610	1100
Exchangeable Magnesium, Mg	meq/100g	0.02	6.1	5.0	9.1
Exchangeable Magnesium Percentage*	%	0.1	56.7	36.5	72.7
Cation Exchange Capacity	meq/100g	0.02	11	14	13

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 29/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
Arsenic, As	mg/kg	1	5	6	5	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.8	7.4	10	11	9.9
Copper, Cu	mg/kg	0.5	15	14	6.3	7.6	10
Lead, Pb	mg/kg	1	12	14	16	23	8
Nickel, Ni	mg/kg	0.5	7.4	7.8	2.8	4.3	3.8
Zinc, Zn	mg/kg	2	33	36	7.1	29	11

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
Arsenic, As	mg/kg	1	6	7	3	4	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	19	21	9.1	9.0	12
Copper, Cu	mg/kg	0.5	15	17	3.0	8.5	5.5
Lead, Pb	mg/kg	1	27	28	12	8	15
Nickel, Ni	mg/kg	0.5	7.5	8.0	2.3	3.3	3.2
Zinc, Zn	mg/kg	2	46	48	7.3	10	12

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
Arsenic, As	mg/kg	1	4	11	21	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.7	9.0	18	12	12
Copper, Cu	mg/kg	0.5	9.5	31	40	4.4	12
Lead, Pb	mg/kg	1	9	24	82	23	10
Nickel, Ni	mg/kg	0.5	2.1	14	20	2.3	2.9
Zinc, Zn	mg/kg	2	10	64	170	9.2	15

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
Arsenic, As	mg/kg	1	5	4	5	6	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	8.4	9.9	8.6	11
Copper, Cu	mg/kg	0.5	4.6	12	4.3	15	5.7
Lead, Pb	mg/kg	1	11	7	12	21	12
Nickel, Ni	mg/kg	0.5	2.0	3.9	3.7	7.2	2.4
Zinc, Zn	mg/kg	2	8.8	18	15	49	12

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 29/7/2020

(continued)

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
Arsenic, As	mg/kg	1	5	5	7	4	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.6	10	15	9.2	11
Copper, Cu	mg/kg	0.5	22	9.6	18	13	17
Lead, Pb	mg/kg	1	17	16	22	17	370
Nickel, Ni	mg/kg	0.5	14	6.4	18	7.6	8.3
Zinc, Zn	mg/kg	2	55	19	110	33	70

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
Arsenic, As	mg/kg	1	7	7	5	6	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	13	9.2	18	13
Copper, Cu	mg/kg	0.5	8.1	4.1	13	7.2	11
Lead, Pb	mg/kg	1	19	13	12	12	17
Nickel, Ni	mg/kg	0.5	4.3	2.6	4.4	4.8	3.8
Zinc, Zn	mg/kg	2	31	15	21	18	21

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
Arsenic, As	mg/kg	1	7	6	5	10	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	22	21	19	10	15
Copper, Cu	mg/kg	0.5	4.9	9.5	8.0	12	14
Lead, Pb	mg/kg	1	22	11	9	13	17
Nickel, Ni	mg/kg	0.5	3.5	3.1	2.8	1.7	6.0
Zinc, Zn	mg/kg	2	14	18	15	13	31

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
Arsenic, As	mg/kg	1	15	4	8	9	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	13	13	15	12
Copper, Cu	mg/kg	0.5	30	12	15	12	23
Lead, Pb	mg/kg	1	25	12	15	12	15
Nickel, Ni	mg/kg	0.5	6.7	1.8	8.3	4.3	3.5
Zinc, Zn	mg/kg	2	40	14	32	21	20

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 29/7/2020

(continued)

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
Arsenic, As	mg/kg	1	13	10	9	9	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.0	13	13	17	14
Copper, Cu	mg/kg	0.5	18	23	19	11	13
Lead, Pb	mg/kg	1	10	15	12	11	9
Nickel, Ni	mg/kg	0.5	2.0	3.0	6.6	4.4	2.6
Zinc, Zn	mg/kg	2	15	19	31	22	18

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
Arsenic, As	mg/kg	1	6	8	5	5	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	14	11	11	14
Copper, Cu	mg/kg	0.5	9.1	14	7.9	14	11
Lead, Pb	mg/kg	1	12	9	13	10	17
Nickel, Ni	mg/kg	0.5	6.8	4.7	3.8	6.5	5.6
Zinc, Zn	mg/kg	2	9.0	14	9.0	11	15

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
Arsenic, As	mg/kg	1	4	9	11	6	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.8	13	11	13	7.9
Copper, Cu	mg/kg	0.5	14	12	17	12	9.1
Lead, Pb	mg/kg	1	9	13	9	15	9
Nickel, Ni	mg/kg	0.5	4.9	6.0	3.3	5.7	2.1
Zinc, Zn	mg/kg	2	10	19	18	13	11

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
Arsenic, As	mg/kg	1	6	5	12	60	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	0.7	<0.3
Chromium, Cr	mg/kg	0.5	15	9.5	11	5.2	11
Copper, Cu	mg/kg	0.5	7.6	13	11	24	5.2
Lead, Pb	mg/kg	1	18	12	21	11	23
Nickel, Ni	mg/kg	0.5	6.4	7.5	5.4	1.8	4.3
Zinc, Zn	mg/kg	2	15	19	18	17	14

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 29/7/2020

(continued)

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
Arsenic, As	mg/kg	1	**5**	**8**
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	**20**	**15**
Copper, Cu	mg/kg	0.5	**7.6**	**10**
Lead, Pb	mg/kg	1	**13**	**10**
Nickel, Ni	mg/kg	0.5	**14**	**3.5**
Zinc, Zn	mg/kg	2	**31**	**18**

Mercury in Soil [AN312] Tested: 29/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
Mercury	mg/kg	0.05	<0.05	<0.05	**0.06**	<0.05	<0.05

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 29/7/2020 (continued)

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
Mercury	mg/kg	0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 28/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.3-0.4 SOIL - 24/7/2020 SE209178.002	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005
% Moisture	%w/w	1	11.3	13.3	13.2	17.4	15.3

PARAMETER	UOM	LOR	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH4_0.7-0.8 SOIL - 24/7/2020 SE209178.009	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010
% Moisture	%w/w	1	7.7	9.3	6.6	12.1	6.9

PARAMETER	UOM	LOR	BH5_0.9-1.0 SOIL - 24/7/2020 SE209178.011	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH6_0.7-0.8 SOIL - 24/7/2020 SE209178.013	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014	BH8_0.6-0.7 SOIL - 24/7/2020 SE209178.015
% Moisture	%w/w	1	9.5	11.1	10.9	7.8	12.4

PARAMETER	UOM	LOR	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH12_0.1-0.2 SOIL - 24/7/2020 SE209178.018	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020
% Moisture	%w/w	1	15.2	13.9	13.3	10.0	11.6

PARAMETER	UOM	LOR	BH14_0.1-0.2 SOIL - 24/7/2020 SE209178.021	BH14_0.6-0.7 SOIL - 24/7/2020 SE209178.022	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025
% Moisture	%w/w	1	11.7	23.0	13.5	14.9	23.4

PARAMETER	UOM	LOR	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030
% Moisture	%w/w	1	11.4	12.3	14.0	19.2	15.2

PARAMETER	UOM	LOR	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH22_0.5-0.6 SOIL - 24/7/2020 SE209178.032	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035
% Moisture	%w/w	1	10.5	23.8	17.1	20.1	18.1

Moisture Content [AN002] Tested: 28/7/2020 (continued)

PARAMETER	UOM	LOR	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040
% Moisture	%w/w	1	19.4	16.0	19.7	17.8	14.4

PARAMETER	UOM	LOR	BH32_1.4-1.5 SOIL - 24/7/2020 SE209178.041	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH34_0.6-0.7 SOIL - 24/7/2020 SE209178.043	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH36_0.7-0.8 SOIL - 24/7/2020 SE209178.045
% Moisture	%w/w	1	16.5	21.7	19.3	19.9	15.2

PARAMETER	UOM	LOR	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH38_0.6-0.7 SOIL - 24/7/2020 SE209178.047	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048	BH40_0.5-0.6 SOIL - 24/7/2020 SE209178.049	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050
% Moisture	%w/w	1	17.0	20.7	11.2	14.6	17.7

PARAMETER	UOM	LOR	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH44_0.1-0.2 SOIL - 24/7/2020 SE209178.052	BH44_0.5-0.6 SOIL - 24/7/2020 SE209178.053	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH46_0.4-0.5 SOIL - 24/7/2020 SE209178.055
% Moisture	%w/w	1	17.6	17.7	19.8	20.0	18.2

PARAMETER	UOM	LOR	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH47_0.4-0.5 SOIL - 24/7/2020 SE209178.057	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058	BH50_0.5-0.6 SOIL - 24/7/2020 SE209178.059	BHQD1 SOIL - 24/7/2020 SE209178.060
% Moisture	%w/w	1	9.3	13.7	9.5	18.2	13.8

PARAMETER	UOM	LOR	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062	TB SOIL - 24/7/2020 SE209178.063
% Moisture	%w/w	1	16.0	18.5	<1.0

Fibre Identification in soil [AN602] Tested: 31/7/2020

PARAMETER	UOM	LOR	BH1_0.1-0.2 SOIL - 24/7/2020 SE209178.001	BH1_0.7-0.8 SOIL - 24/7/2020 SE209178.003	BH2_0.1-0.2 SOIL - 24/7/2020 SE209178.004	BH2_0.5-0.6 SOIL - 24/7/2020 SE209178.005	BH3_0.1-0.2 SOIL - 24/7/2020 SE209178.006
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	BH3_0.7-0.8 SOIL - 24/7/2020 SE209178.007	BH4_0.1-0.2 SOIL - 24/7/2020 SE209178.008	BH5_0.1-0.2 SOIL - 24/7/2020 SE209178.010	BH6_0.1-0.2 SOIL - 24/7/2020 SE209178.012	BH8_0.1-0.2 SOIL - 24/7/2020 SE209178.014
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	BH10_0.1-0.2 SOIL - 24/7/2020 SE209178.016	BH10_0.4-0.5 SOIL - 24/7/2020 SE209178.017	BH13_0.1-0.2 SOIL - 24/7/2020 SE209178.019	BH13_0.9-1.0 SOIL - 24/7/2020 SE209178.020	BH15_0.1-0.2 SOIL - 24/7/2020 SE209178.023
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	BH15_1.0-1.1 SOIL - 24/7/2020 SE209178.024	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178.025	BH17_0.1-0.2 SOIL - 24/7/2020 SE209178.026	BH17_0.9-1.0 SOIL - 24/7/2020 SE209178.027	BH17_1.5-1.6 SOIL - 24/7/2020 SE209178.028
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	BH20_0.2-0.3 SOIL - 24/7/2020 SE209178.029	BH21_0.1-0.2 SOIL - 24/7/2020 SE209178.030	BH22_0.1-0.2 SOIL - 24/7/2020 SE209178.031	BH24_0.1-0.2 SOIL - 24/7/2020 SE209178.033	BH24_0.6-0.7 SOIL - 24/7/2020 SE209178.034
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	BH25_0.1-0.2 SOIL - 24/7/2020 SE209178.035	BH25_0.4-0.5 SOIL - 24/7/2020 SE209178.036	BH28_0.1-0.2 SOIL - 24/7/2020 SE209178.037	BH30_0.1-0.2 SOIL - 24/7/2020 SE209178.038	BH30_0.5-0.6 SOIL - 24/7/2020 SE209178.039
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	BH32_0.1-0.2 SOIL - 24/7/2020 SE209178.040	BH34_0.1-0.2 SOIL - 24/7/2020 SE209178.042	BH36_0.1-0.2 SOIL - 24/7/2020 SE209178.044	BH38_0.1-0.2 SOIL - 24/7/2020 SE209178.046	BH40_0.1-0.2 SOIL - 24/7/2020 SE209178.048
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

Fibre Identification in soil [AN602] Tested: 31/7/2020 (continued)

PARAMETER	UOM	LOR	BH41_0.1-0.2 SOIL - 24/7/2020 SE209178.050	BH41_0.5-0.6 SOIL - 24/7/2020 SE209178.051	BH46_0.1-0.2 SOIL - 24/7/2020 SE209178.054	BH47_0.1-0.2 SOIL - 24/7/2020 SE209178.056	BH50_0.1-0.2 SOIL - 24/7/2020 SE209178.058
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	BHQD1 SOIL - 24/7/2020 SE209178.060	BHQD2 SOIL - 24/7/2020 SE209178.061	BHQD3 SOIL - 24/7/2020 SE209178.062
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01

VOCs in Water [AN433] Tested: 29/7/2020

PARAMETER	UOM	LOR	BHQR1 WATER - 24/7/2020 SE209178.065
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
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 29/7/2020

PARAMETER	UOM	LOR	BHQR1 WATER - 24/7/2020 SE209178.065
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: 29/7/2020

PARAMETER	UOM	LOR	BHQR1 WATER - 24/7/2020 SE209178.065
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

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 28/7/2020

PARAMETER	UOM	LOR	BHQR1 WATER - 24/7/2020 SE209178.065
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

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 30/7/2020

PARAMETER	UOM	LOR	BHQR1 WATER - 24/7/2020 SE209178.065
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.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
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 unequivocably 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 limit 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 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.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	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:

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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ANALYTICAL REPORT

Accreditation No. 2562

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	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	43

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	**SE209178 R0**
Date Received	24 Jul 2020
Date Reported	03 Aug 2020

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.
Sample #3,5,7,14,17,20,25,28,34,36,39,51,60-62 A portion of the sample supplied has been sub-sampled for asbestos according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Environment, Health and Safety recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

SIGNATORIES

Bennet LO
Senior Organic Chemist/Metals Chemis

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*
SE209178.001	BH1_0.1-0.2	Soil	128g clay, soil, rocks	24 Jul 2020	No Asbestos Found	<0.01
SE209178.003	BH1_0.7-0.8	Soil	82g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.004	BH2_0.1-0.2	Soil	144g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.005	BH2_0.5-0.6	Soil	65g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.006	BH3_0.1-0.2	Soil	93g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.007	BH3_0.7-0.8	Soil	72g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.008	BH4_0.1-0.2	Soil	83g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.010	BH5_0.1-0.2	Soil	76g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.012	BH6_0.1-0.2	Soil	87g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.014	BH8_0.1-0.2	Soil	66g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.016	BH10_0.1-0.2	Soil	72g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.017	BH10_0.4-0.5	Soil	99g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.019	BH13_0.1-0.2	Soil	164g clay, rocks	24 Jul 2020	No Asbestos Found	<0.01
SE209178.020	BH13_0.9-1.0	Soil	95g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.023	BH15_0.1-0.2	Soil	190g clay, rocks	24 Jul 2020	No Asbestos Found	<0.01
SE209178.024	BH15_1.0-1.1	Soil	129g clay, rocks	24 Jul 2020	No Asbestos Found	<0.01
SE209178.025	BH15_1.5-1.6	Soil	79g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.026	BH17_0.1-0.2	Soil	69g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.027	BH17_0.9-1.0	Soil	127g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.028	BH17_1.5-1.6	Soil	112g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.029	BH20_0.2-0.3	Soil	118g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.030	BH21_0.1-0.2	Soil	51g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.031	BH22_0.1-0.2	Soil	65g clay, sand, soil	24 Jul 2020	No Asbestos Found	<0.01
SE209178.033	BH24_0.1-0.2	Soil	66g clay, sand, soil	24 Jul 2020	No Asbestos Found	<0.01
SE209178.034	BH24_0.6-0.7	Soil	82g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.035	BH25_0.1-0.2	Soil	42g clay, sand	24 Jul 2020	No Asbestos Found	<0.01
SE209178.036	BH25_0.4-0.5	Soil	86g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.037	BH28_0.1-0.2	Soil	131g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.038	BH30_0.1-0.2	Soil	77g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.039	BH30_0.5-0.6	Soil	66g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.040	BH32_0.1-0.2	Soil	53g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.042	BH34_0.1-0.2	Soil	100g clay	24 Jul 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE209178.044	BH36_0.1-0.2	Soil	91g clay	24 Jul 2020	No Asbestos Found Organic Fibres Detected	<0.01

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE209178.046	BH38_0.1-0.2	Soil	131g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.048	BH40_0.1-0.2	Soil	177g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.050	BH41_0.1-0.2	Soil	141g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.051	BH41_0.5-0.6	Soil	79g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.054	BH46_0.1-0.2	Soil	184g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.056	BH47_0.1-0.2	Soil	156g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.058	BH50_0.1-0.2	Soil	117g clay, sand, plant matter	24 Jul 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE209178.060	BHQD1	Soil	87g clay	24 Jul 2020	No Asbestos Found	<0.01
SE209178.061	BHQD2	Soil	69g clay, rocks	24 Jul 2020	No Asbestos Found	<0.01
SE209178.062	BHQD3	Soil	75g clay	24 Jul 2020	No Asbestos Found	<0.01

METHOD SUMMARY

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 unequivocably 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 limit 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 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.

(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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ANALYTICAL REPORT

Accreditation No. 2562

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	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	65

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE209178A R0**
Date Received	17/8/2020
Date Reported	20/8/2020

COMMENTS

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

SIGNATORIES

Bennet LO
Senior Organic Chemist/Metals Chemist

TCLP (Toxicity Characteristic Leaching Procedure) for Metals [AN006] Tested: 19/8/2020

PARAMETER	UOM	LOR	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178A.025
pH 1:20	pH Units	-	**7.0**
pH 1:20 plus HCL	pH Units	-	**1.7**
Extraction Solution Used	No unit	-	**1**
Mass of Sample Used*	g	-	**13**
Volume of ExtractionSolution Used*	mL	-	**250**
pH TCLP after 18 hours	pH Units	-	**5.1**

Metals in TCLP Extract by ICPOES [AN320] Tested: 20/8/2020

PARAMETER	UOM	LOR	BH15_1.5-1.6 SOIL - 24/7/2020 SE209178A.025
Lead, Pb	mg/L	0.02	<0.02

METHOD	METHODOLOGY SUMMARY
AN006	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100g to 2L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Base on USEPA 1311.
AN006	Extraction Fluid #1: This fluid is made by combining 128.6mL of dilute sodium hydroxide solution and 11.5mL glacial acetic acid with water and diluting to a volume of 2 litres. The pH of this fluid should be 4.93 ± 0.05.
AN006	Extraction Fluid #2: This fluid is made by diluting 5.7mL glacial acetic acid with water to a volume of 1 litre. The pH of this fluid should be 2.88 ± 0.05.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components .
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements . Reference APHA 3120 B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	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:

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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CERTIFICATE OF ANALYSIS 247704

Client Details

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

Sample Details

Your Reference	**E24744, Edmondson Park**
Number of Samples	5 Soil
Date samples received	24/07/2020
Date completed instructions received	24/07/2020

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	31/07/2020
Date of Issue	29/07/2020

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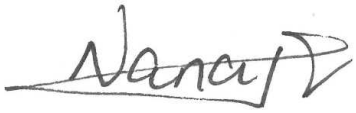
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Senior Chemist
Manju Dewendrage, Chemist

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		247704-1	247704-2	247704-3
Your Reference	UNITS	BHQT1	BHQT2	BHQT3
Date Sampled		24/07/2020	24/07/2020	24/07/2020
Type of sample		Soil	Soil	Soil
Date extracted	-	27/07/2020	27/07/2020	27/07/2020
Date analysed	-	28/07/2020	28/07/2020	28/07/2020
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	82	85	93

svTRH (C10-C40) in Soil				
Our Reference		247704-1	247704-2	247704-3
Your Reference	UNITS	BHQT1	BHQT2	BHQT3
Date Sampled		24/07/2020	24/07/2020	24/07/2020
Type of sample		Soil	Soil	Soil
Date extracted	-	27/07/2020	27/07/2020	27/07/2020
Date analysed	-	28/07/2020	28/07/2020	28/07/2020
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	114	107	120

Acid Extractable metals in soil				
Our Reference	UNITS	247704-1	247704-2	247704-3
Your Reference		BHQT1	BHQT2	BHQT3
Date Sampled		24/07/2020	24/07/2020	24/07/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	27/07/2020	27/07/2020	27/07/2020
Date analysed	-	27/07/2020	27/07/2020	27/07/2020
Arsenic	mg/kg	5	4	7
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	11	18	16
Copper	mg/kg	22	8	14
Lead	mg/kg	17	14	19
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	15	10	7
Zinc	mg/kg	53	21	28

Moisture				
Our Reference		247704-1	247704-2	247704-3
Your Reference	UNITS	BHQT1	BHQT2	BHQT3
Date Sampled		24/07/2020	24/07/2020	24/07/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	24/07/2020	24/07/2020	24/07/2020
Date analysed	-	27/07/2020	27/07/2020	27/07/2020
Moisture	%	12	13	9.9

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)-BTEX 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)-BTEX 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	-			27/07/2020	[NT]	[NT]	[NT]	[NT]	27/07/2020	[NT]
Date analysed	-			28/07/2020	[NT]	[NT]	[NT]	[NT]	28/07/2020	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	82	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	86	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	116	[NT]	[NT]	[NT]	[NT]	101	[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	-			27/07/2020	[NT]	[NT]	[NT]	[NT]	27/07/2020	[NT]
Date analysed	-			28/07/2020	[NT]	[NT]	[NT]	[NT]	28/07/2020	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	108	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	108	[NT]
Surrogate o-Terphenyl	%		Org-020	109	[NT]	[NT]	[NT]	[NT]	93	[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	-			27/07/2020	[NT]	[NT]	[NT]	[NT]	27/07/2020	[NT]
Date analysed	-			27/07/2020	[NT]	[NT]	[NT]	[NT]	27/07/2020	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	106	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[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 K – QA/QC Assessment

L1 Quality Control Program

L1.1 Introduction

For the purpose of assessing the quality of data presented in this Site Validation Report, EI collected field QC samples for analysis. The primary laboratory, SGS Australia Pty Ltd (SGS) and secondary laboratory, Envirolab Services Pty Ltd (Envirolab) also prepared and analysed QC samples. Details of the field and laboratory QC samples are provided, with the allowable acceptance ranges for the data presented in **Table L-1**.

Table L-1 Sampling Data Quality Indicators

QA/QC Measures	Data Quality Indicators	Have the DQIs Been Met?	Comment
Precision – A quantitative measure of the variability (or reproducibility) of data	Data precision would be assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision would be deemed acceptable if RPDs are found to be less than 30%. RPDs that exceed this range may be considered acceptable where: Results are less than 10 times the limits of reporting (LOR). Results are less than 20 times the LOR and the RPD is less than 50%. Heterogeneous materials or volatile compounds are encountered.	Yes	Calculated RPD values between primary and duplicate field samples, are presented in **Table L-2**, and discussed below. The majority of the RPD values were found to be within the Data Acceptance Criteria with the exception of the following: ▪ BHQD1: ‣ Copper (97.03) ‣ Lead (62.86) ‣ Nickel (52.99) ‣ Zinc (80.85) ▪ BHQD2: ‣ Copper (81.25) ‣ Lead (51.43) ‣ Zinc (112.06) ▪ BHQD2: ‣ Nickel (81.25) ‣ Zinc (56.00) ▪ BHQT1: ‣ Nickel (67.86) ▪ BHQT1: ‣ Copper (76.92) ‣ Nickel(57.14) ‣ Zinc (135.88) The exceedances in the soil RPDs are likely a result of sample heterogeneity and do not affect the outcome of this investigation.

QA/QC Measures	Data Quality Indicators	Have the DQIs Been Met?	Comment
z	Data accuracy would be assessed through the analysis of: Method blanks, which are analysed for the analytes targeted in the primary samples. Matrix spike and matrix spike duplicate sample sets. Laboratory control samples. Calibration of instruments against known standards.	Yes	As detailed in **Section L3**, method blanks, surrogates and laboratory control samples all conformed to the data acceptance criteria. Laboratory duplicate samples, matrix spikes and holding times generally conformed to the data acceptance criteria, with the exception of a small number of discrepancies for matrix spike. PID calibration certificates are attached in **APPENDIX J**.
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	To ensure the data produced by the laboratory is representative of conditions encountered in the field, the laboratory would carry out the following: Blank samples will be run in parallel with field samples to confirm there are no unacceptable instances of laboratory artefacts. Review of relative percentage differences (RPD) values for field and laboratory duplicates to provide an indication that the samples are generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities. The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).	Yes	As discussed in **Table 8-2** the collection methodologies, handling, storage and preservation techniques utilised are considered to be satisfactory.
Completeness – A measure of the amount of useable data from a data collection activity	Analytical data sets acquired during the assessment will be evaluated as complete, upon confirmation that: Standard operating procedures (SOPs) for sampling protocols were adhered to. Copies of all COC documentation are presented, reviewed and found to be properly completed. Consideration of whether the proportion of “useable data” generated in the data collection activities is sufficient for the purposes of the land use assessment.	Yes	COC and SRA forms are attached in **Appendix K.** The data confirms that the analytical results for soil were valid and useable for interpretation purposes.

QA/QC Measures	Data Quality Indicators	Have the DQIs Been Met?	Comment
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Given that a reported data set can comprise several data sets from separate sampling episodes, issues of comparability between data sets are reduced through adherence to SOPs and regulator-endorsed or published guidelines and standards on each data gathering activity. In addition the data will be collected by experienced samplers and NATA-accredited laboratory methodologies will be employed in all laboratory testing programs.	Yes	SOPs were adhered to during each soil sampling event. Data was collected by experienced samplers and NATA-accredited laboratory methodologies were employed.

L1.2 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.

C_R = Concentration obtained for the blind replicate or split duplicate sample.

L2 Field QA/QC Data Evaluation

The field quality assurance/quality control (QA/QC) samples collected during the soil investigation works were as follows:

- Blind field duplicates
- Inter-laboratory duplicates
- Trip blanks
- Trip spikes
- Rinsate blanks

Analytical results for tested soil QA/QC samples, including the calculated RPD values between primary and duplicate samples, are presented in **Table L-2**.

The number of QA/QC complies with sampling frequencies as stipulated in **Table 7.2**.

L2.1 Soil Investigation

L2.1.1 Blind Field Duplicate

The following blind field duplicate (BFD) was collected:

- Sample QD1 was collected as the BFD of the primary sample BH1_0.1-0.2;
- Sample QD2 was collected as the BFD of the primary sample BH15_0.1-0.2; and
- Sample QD3 was collected as the BFD of the primary sample BH30_0.1-0.2.

The preparation of a BFD sample involved the collection of a bulk quantity of soil from the same sampling point without mixing, before dividing the material into identical sampling vessels. The duplicate samples were then presented blind to the primary laboratory (SGS) to avoid any potential analytical bias. BFD soil samples were analysed for TRHs, BTEX, selected heavy metals and calculated RPD values were found to be within the Data Acceptance Criteria.

L2.1.3 Inter-Laboratory Duplicate

The following inter-laboratory duplicate (ILD) was collected:

- Sample QT1 was collected as the ILD of the primary sample BH1_0.1-0.2;
- Sample QT2 was collected as the ILD of the primary sample BH15_0.1-0.2; and
- Sample QT3 was collected as the ILD of the primary sample BH30_0.1-0.2.

ILD soil samples were analysed for TRHs, BTEX, selected heavy metals and calculated RPD values were found to be within the Data Acceptance Criteria.

L2.1.3 Trip Blank

One trip blank sample (QTB1) was prepared and analysed by the primary laboratory (SGS) for BTEX.

All analytical results for these samples were below the laboratory LOR, indicating that satisfactory sample transport and handling conditions were achieved.

L2.1.4 Trip Spike

One trip spike sample (QTS1) was submitted to the primary laboratory for BTEX analysis.

All analytical results for these samples were within the RPD acceptance levels (70%-130%) for trip spike recovery, indicating that satisfactory sample transport and handling conditions were achieved.

L2.1.5 Rinsate Blank

One rinsate blank sample (QR1) was submitted to the primary laboratory for TRHs, BTEX and selected heavy metals analyses. Analytical results were reported below the laboratory LOR.

L3 LABORATORY QA/QC

L3.1 Laboratory Accreditation

To undertake all analytical testing, EI commissioned SGS as the primary laboratory and Envirolab as the secondary laboratory. SGS and Envirolab, both established analytical laboratories which operate in accordance with the guidelines set out in ISO/IEC Guide 25 “General requirements for the competence of calibration and testing laboratories”, conducted all respective analyses using National Association Testing Authorities (NATA)-registered procedures.

In relation to contingencies, should the pre-determined DQOs not be achieved, in accordance with each laboratory’s QC policy (**Appendix N**), respective tests are accordingly repeated. Should the results again fall outside the DQOs, then sample heterogeneity may be assumed

and written comment will be provided to this effect on the final laboratory certificate. The laboratory QA/QC reports are included in **Appendix N**.

L3.2 Sample Holding Times

All sample holding times were within standard environmental protocols as tabulated in **Appendix M**, **Tables QC1** and **QC2**.

L3.3 Test Methods and Practical Quantitation Limits (PQLs)

Practical Quantitation Limits for the tested parameters during the assessments of soils are presented in **Appendix M**, **Tables QC3** and **QC4**.

PQLs were less than the adopted validation acceptance criteria.

L3.4 Method Blanks

Concentrations of all parameters in method blanks during the assessment were below the laboratory PQLs and were therefore within the DAC.

L3.5 Laboratory Duplicate Samples

The RPD values of Laboratory Duplicate Samples (LDS) for the analysis batches were within acceptable ranges and conformed to the DAC.

L3.6 Laboratory Control Samples

Recoveries of Laboratory Control Samples (LCS) for the analysis batches were within acceptable ranges and conformed to the DAC.

L3.7 Matrix Spikes

Recoveries of matrix spikes of the analysis batches were within acceptable ranges and conformed to the DAC with the exception of Tetrachloro-m-xylene in sample SE209178.008.

L3.8 Surrogate

The recoveries of surrogates conformed to the DAC.

L3.9 Concluding Remark

Based on the laboratory QA/QC results, EI considers that the data confirms that the analytical results for soil laboratory testing were valid and useable for interpretation.

Appendix L – Laboratory QA/QC Policies and DQOs

STATEMENT OF QA/QC PERFORMANCE

SE209178 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	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	65

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	**SE209178 R0**
Date Received	24 Jul 2020
Date Reported	03 Aug 2020

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	PCBs in Soil	1 item
Duplicate	TRH (Total Recoverable Hydrocarbons) 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	64 Soil, 1 Water
Date documentation received	24/7/2020	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	5.7°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

HOLDING TIME SUMMARY

SE209178 R0

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH3_0.7-0.8	SE209178.007	LB205550	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205550	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205550	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020

Fibre Identification in soil

Method: ME-(AU)-[ENV]AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH1_0.7-0.8	SE209178.003	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH2_0.1-0.2	SE209178.004	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH2_0.5-0.6	SE209178.005	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH3_0.1-0.2	SE209178.006	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH3_0.7-0.8	SE209178.007	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH4_0.1-0.2	SE209178.008	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH5_0.1-0.2	SE209178.010	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH6_0.1-0.2	SE209178.012	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH8_0.1-0.2	SE209178.014	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH10_0.1-0.2	SE209178.016	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH10_0.4-0.5	SE209178.017	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH13_0.1-0.2	SE209178.019	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH13_0.9-1.0	SE209178.020	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH15_0.1-0.2	SE209178.023	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH15_1.0-1.1	SE209178.024	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH15_1.5-1.6	SE209178.025	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH17_0.1-0.2	SE209178.026	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH17_0.9-1.0	SE209178.027	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH17_1.5-1.6	SE209178.028	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH20_0.2-0.3	SE209178.029	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH21_0.1-0.2	SE209178.030	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH22_0.1-0.2	SE209178.031	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH24_0.1-0.2	SE209178.033	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH24_0.6-0.7	SE209178.034	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH25_0.1-0.2	SE209178.035	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH25_0.4-0.5	SE209178.036	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH28_0.1-0.2	SE209178.037	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH30_0.1-0.2	SE209178.038	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH30_0.5-0.6	SE209178.039	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH32_0.1-0.2	SE209178.040	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH34_0.1-0.2	SE209178.042	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH36_0.1-0.2	SE209178.044	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH38_0.1-0.2	SE209178.046	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH40_0.1-0.2	SE209178.048	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH41_0.1-0.2	SE209178.050	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH41_0.5-0.6	SE209178.051	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH46_0.1-0.2	SE209178.054	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH47_0.1-0.2	SE209178.056	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BH50_0.1-0.2	SE209178.058	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BHQD1	SE209178.060	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BHQD2	SE209178.061	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020
BHQD3	SE209178.062	LB205753	24 Jul 2020	24 Jul 2020	24 Jul 2021	31 Jul 2020	24 Jul 2021	03 Aug 2020

Mercury (dissolved) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BHQR1	SE209178.065	LB205592	24 Jul 2020	24 Jul 2020	21 Aug 2020	30 Jul 2020	21 Aug 2020	31 Jul 2020

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Mercury in Soil (continued) — **Method: ME-(AU)-[ENV]AN312**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2_0.5-0.6	SE209178.005	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205484	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH4_0.7-0.8	SE209178.009	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH12_0.1-0.2	SE209178.018	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH17_0.9-1.0	SE209178.027	LB205485	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205486	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH47_0.1-0.2	SE209178.056	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BHQD1	SE209178.060	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BHQD2	SE209178.061	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020
BHQD3	SE209178.062	LB205487	24 Jul 2020	24 Jul 2020	21 Aug 2020	29 Jul 2020	21 Aug 2020	31 Jul 2020

HOLDING TIME SUMMARY

SE209178 R0

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content — Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH2_0.5-0.6	SE209178.005	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH4_0.7-0.8	SE209178.009	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205388	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH12_0.1-0.2	SE209178.018	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH17_0.9-1.0	SE209178.027	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205389	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205390	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH47_0.1-0.2	SE209178.056	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BHQD1	SE209178.060	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BHQD2	SE209178.061	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
BHQD3	SE209178.062	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020
TB	SE209178.063	LB205391	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	02 Aug 2020	31 Jul 2020

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.3-0.4	SE209178.002	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.7-0.8	SE209178.003	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.1-0.2	SE209178.004	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.5-0.6	SE209178.005	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.1-0.2	SE209178.006	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.7-0.8	SE209178.007	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.1-0.2	SE209178.008	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.7-0.8	SE209178.009	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.1-0.2	SE209178.010	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.9-1.0	SE209178.011	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.1-0.2	SE209178.012	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.7-0.8	SE209178.013	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.1-0.2	SE209178.014	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.6-0.7	SE209178.015	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.1-0.2	SE209178.016	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.4-0.5	SE209178.017	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH12_0.1-0.2	SE209178.018	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.1-0.2	SE209178.019	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.9-1.0	SE209178.020	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.1-0.2	SE209178.021	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.6-0.7	SE209178.022	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_0.1-0.2	SE209178.023	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.0-1.1	SE209178.024	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.5-1.6	SE209178.025	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.1-0.2	SE209178.026	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.9-1.0	SE209178.027	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_1.5-1.6	SE209178.028	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH20_0.2-0.3	SE209178.029	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH21_0.1-0.2	SE209178.030	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.1-0.2	SE209178.031	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.5-0.6	SE209178.032	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.1-0.2	SE209178.033	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.6-0.7	SE209178.034	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.1-0.2	SE209178.035	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.4-0.5	SE209178.036	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH28_0.1-0.2	SE209178.037	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.1-0.2	SE209178.038	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.5-0.6	SE209178.039	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_0.1-0.2	SE209178.040	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_1.4-1.5	SE209178.041	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.1-0.2	SE209178.042	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.6-0.7	SE209178.043	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.1-0.2	SE209178.044	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.7-0.8	SE209178.045	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.1-0.2	SE209178.046	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.6-0.7	SE209178.047	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.1-0.2	SE209178.048	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.5-0.6	SE209178.049	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.1-0.2	SE209178.050	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.5-0.6	SE209178.051	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.1-0.2	SE209178.052	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.5-0.6	SE209178.053	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.1-0.2	SE209178.054	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

OC Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH46_0.4-0.5	SE209178.055	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.1-0.2	SE209178.056	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.4-0.5	SE209178.057	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.1-0.2	SE209178.058	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.5-0.6	SE209178.059	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD1	SE209178.060	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD2	SE209178.061	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD3	SE209178.062	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.3-0.4	SE209178.002	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.7-0.8	SE209178.003	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.1-0.2	SE209178.004	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.5-0.6	SE209178.005	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.1-0.2	SE209178.006	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.7-0.8	SE209178.007	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.1-0.2	SE209178.008	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.7-0.8	SE209178.009	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.1-0.2	SE209178.010	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.9-1.0	SE209178.011	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.1-0.2	SE209178.012	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.7-0.8	SE209178.013	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.1-0.2	SE209178.014	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.6-0.7	SE209178.015	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.1-0.2	SE209178.016	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.4-0.5	SE209178.017	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH12_0.1-0.2	SE209178.018	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.1-0.2	SE209178.019	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.9-1.0	SE209178.020	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.1-0.2	SE209178.021	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.6-0.7	SE209178.022	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_0.1-0.2	SE209178.023	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.0-1.1	SE209178.024	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.5-1.6	SE209178.025	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.1-0.2	SE209178.026	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.9-1.0	SE209178.027	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_1.5-1.6	SE209178.028	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH20_0.2-0.3	SE209178.029	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH21_0.1-0.2	SE209178.030	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.1-0.2	SE209178.031	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.5-0.6	SE209178.032	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.1-0.2	SE209178.033	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.6-0.7	SE209178.034	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.1-0.2	SE209178.035	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.4-0.5	SE209178.036	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH28_0.1-0.2	SE209178.037	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.1-0.2	SE209178.038	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.5-0.6	SE209178.039	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_0.1-0.2	SE209178.040	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_1.4-1.5	SE209178.041	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.1-0.2	SE209178.042	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.6-0.7	SE209178.043	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.1-0.2	SE209178.044	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.7-0.8	SE209178.045	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.1-0.2	SE209178.046	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.6-0.7	SE209178.047	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.1-0.2	SE209178.048	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.5-0.6	SE209178.049	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

OP Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH41_0.1-0.2	SE209178.050	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.5-0.6	SE209178.051	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.1-0.2	SE209178.052	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.5-0.6	SE209178.053	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.1-0.2	SE209178.054	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.4-0.5	SE209178.055	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.1-0.2	SE209178.056	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.4-0.5	SE209178.057	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.1-0.2	SE209178.058	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.5-0.6	SE209178.059	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD1	SE209178.060	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD2	SE209178.061	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD3	SE209178.062	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

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
BH1_0.1-0.2	SE209178.001	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.3-0.4	SE209178.002	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.7-0.8	SE209178.003	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.1-0.2	SE209178.004	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.5-0.6	SE209178.005	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.1-0.2	SE209178.006	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.7-0.8	SE209178.007	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.1-0.2	SE209178.008	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.7-0.8	SE209178.009	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.1-0.2	SE209178.010	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.9-1.0	SE209178.011	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.1-0.2	SE209178.012	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.7-0.8	SE209178.013	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.1-0.2	SE209178.014	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.6-0.7	SE209178.015	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.1-0.2	SE209178.016	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.4-0.5	SE209178.017	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH12_0.1-0.2	SE209178.018	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.1-0.2	SE209178.019	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.9-1.0	SE209178.020	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.1-0.2	SE209178.021	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.6-0.7	SE209178.022	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_0.1-0.2	SE209178.023	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.0-1.1	SE209178.024	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.5-1.6	SE209178.025	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.1-0.2	SE209178.026	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.9-1.0	SE209178.027	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_1.5-1.6	SE209178.028	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH20_0.2-0.3	SE209178.029	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH21_0.1-0.2	SE209178.030	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.1-0.2	SE209178.031	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.5-0.6	SE209178.032	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.1-0.2	SE209178.033	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.6-0.7	SE209178.034	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.1-0.2	SE209178.035	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.4-0.5	SE209178.036	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH28_0.1-0.2	SE209178.037	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.1-0.2	SE209178.038	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.5-0.6	SE209178.039	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_0.1-0.2	SE209178.040	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_1.4-1.5	SE209178.041	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.1-0.2	SE209178.042	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.6-0.7	SE209178.043	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.1-0.2	SE209178.044	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH36_0.7-0.8	SE209178.045	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.1-0.2	SE209178.046	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.6-0.7	SE209178.047	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.1-0.2	SE209178.048	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.5-0.6	SE209178.049	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.1-0.2	SE209178.050	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.5-0.6	SE209178.051	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.1-0.2	SE209178.052	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.5-0.6	SE209178.053	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.1-0.2	SE209178.054	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.4-0.5	SE209178.055	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.1-0.2	SE209178.056	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.4-0.5	SE209178.057	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.1-0.2	SE209178.058	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.5-0.6	SE209178.059	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD1	SE209178.060	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD2	SE209178.061	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD3	SE209178.062	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

PCBs in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.3-0.4	SE209178.002	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH1_0.7-0.8	SE209178.003	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.1-0.2	SE209178.004	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH2_0.5-0.6	SE209178.005	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.1-0.2	SE209178.006	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH3_0.7-0.8	SE209178.007	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.1-0.2	SE209178.008	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH4_0.7-0.8	SE209178.009	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.1-0.2	SE209178.010	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH5_0.9-1.0	SE209178.011	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.1-0.2	SE209178.012	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH6_0.7-0.8	SE209178.013	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.1-0.2	SE209178.014	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH8_0.6-0.7	SE209178.015	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.1-0.2	SE209178.016	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH10_0.4-0.5	SE209178.017	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH12_0.1-0.2	SE209178.018	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.1-0.2	SE209178.019	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH13_0.9-1.0	SE209178.020	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.1-0.2	SE209178.021	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH14_0.6-0.7	SE209178.022	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_0.1-0.2	SE209178.023	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.0-1.1	SE209178.024	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH15_1.5-1.6	SE209178.025	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.1-0.2	SE209178.026	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_0.9-1.0	SE209178.027	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH17_1.5-1.6	SE209178.028	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH20_0.2-0.3	SE209178.029	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH21_0.1-0.2	SE209178.030	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.1-0.2	SE209178.031	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH22_0.5-0.6	SE209178.032	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.1-0.2	SE209178.033	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH24_0.6-0.7	SE209178.034	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.1-0.2	SE209178.035	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH25_0.4-0.5	SE209178.036	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH28_0.1-0.2	SE209178.037	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.1-0.2	SE209178.038	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH30_0.5-0.6	SE209178.039	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

HOLDING TIME SUMMARY

SE209178 R0

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PCBs in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH32_0.1-0.2	SE209178.040	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH32_1.4-1.5	SE209178.041	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.1-0.2	SE209178.042	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH34_0.6-0.7	SE209178.043	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.1-0.2	SE209178.044	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH36_0.7-0.8	SE209178.045	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.1-0.2	SE209178.046	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH38_0.6-0.7	SE209178.047	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.1-0.2	SE209178.048	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH40_0.5-0.6	SE209178.049	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.1-0.2	SE209178.050	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH41_0.5-0.6	SE209178.051	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.1-0.2	SE209178.052	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH44_0.5-0.6	SE209178.053	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.1-0.2	SE209178.054	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH46_0.4-0.5	SE209178.055	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.1-0.2	SE209178.056	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH47_0.4-0.5	SE209178.057	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.1-0.2	SE209178.058	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BH50_0.5-0.6	SE209178.059	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD1	SE209178.060	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD2	SE209178.061	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020
BHQD3	SE209178.062	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	03 Aug 2020

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.7-0.8	SE209178.003	LB205634	24 Jul 2020	24 Jul 2020	31 Jul 2020	30 Jul 2020	31 Jul 2020	30 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205630	24 Jul 2020	24 Jul 2020	31 Jul 2020	30 Jul 2020	31 Jul 2020	30 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205630	24 Jul 2020	24 Jul 2020	31 Jul 2020	30 Jul 2020	31 Jul 2020	30 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205634	24 Jul 2020	24 Jul 2020	31 Jul 2020	30 Jul 2020	31 Jul 2020	30 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205634	24 Jul 2020	24 Jul 2020	31 Jul 2020	30 Jul 2020	31 Jul 2020	30 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205671	24 Jul 2020	24 Jul 2020	31 Jul 2020	31 Jul 2020	01 Aug 2020	31 Jul 2020

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH2_0.5-0.6	SE209178.005	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205473	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH4_0.7-0.8	SE209178.009	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH12_0.1-0.2	SE209178.018	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH17_0.9-1.0	SE209178.027	LB205474	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205475	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH47_0.1-0.2	SE209178.056	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BHQD1	SE209178.060	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BHQD2	SE209178.061	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020
BHQD3	SE209178.062	LB205476	24 Jul 2020	24 Jul 2020	20 Jan 2021	29 Jul 2020	20 Jan 2021	31 Jul 2020

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
BHQR1	SE209178.065	LB205414	24 Jul 2020	24 Jul 2020	20 Jan 2021	28 Jul 2020	20 Jan 2021	28 Jul 2020

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
BH1_0.1-0.2	SE209178.001	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.5-0.6	SE209178.005	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH4_0.7-0.8	SE209178.009	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205384	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH12_0.1-0.2	SE209178.018	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.9-1.0	SE209178.027	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205385	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205386	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH47_0.1-0.2	SE209178.056	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD1	SE209178.060	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD2	SE209178.061	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD3	SE209178.062	LB205387	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

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
BHQR1	SE209178.065	LB205439	24 Jul 2020	24 Jul 2020	31 Jul 2020	29 Jul 2020	07 Sep 2020	31 Jul 2020

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.5-0.6	SE209178.005	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

VOC's in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH4_0.7-0.8	SE209178.009	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH12_0.1-0.2	SE209178.018	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.9-1.0	SE209178.027	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH47_0.1-0.2	SE209178.056	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD1	SE209178.060	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD2	SE209178.061	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD3	SE209178.062	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
TB	SE209178.063	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
TS	SE209178.064	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

VOCs in Water

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

Sample Name	Sample No.	QC Ref

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

VOCs in Water (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BHQR1	SE209178.065	LB205449	24 Jul 2020	24 Jul 2020	31 Jul 2020	29 Jul 2020	07 Sep 2020	30 Jul 2020

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1_0.1-0.2	SE209178.001	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.3-0.4	SE209178.002	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH1_0.7-0.8	SE209178.003	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.1-0.2	SE209178.004	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH2_0.5-0.6	SE209178.005	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.1-0.2	SE209178.006	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH3_0.7-0.8	SE209178.007	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH4_0.1-0.2	SE209178.008	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH4_0.7-0.8	SE209178.009	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.1-0.2	SE209178.010	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH5_0.9-1.0	SE209178.011	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.1-0.2	SE209178.012	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH6_0.7-0.8	SE209178.013	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.1-0.2	SE209178.014	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH8_0.6-0.7	SE209178.015	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.1-0.2	SE209178.016	LB205380	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH10_0.4-0.5	SE209178.017	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH12_0.1-0.2	SE209178.018	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.1-0.2	SE209178.019	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH13_0.9-1.0	SE209178.020	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.1-0.2	SE209178.021	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH14_0.6-0.7	SE209178.022	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_0.1-0.2	SE209178.023	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.0-1.1	SE209178.024	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH15_1.5-1.6	SE209178.025	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.1-0.2	SE209178.026	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_0.9-1.0	SE209178.027	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH17_1.5-1.6	SE209178.028	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH20_0.2-0.3	SE209178.029	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH21_0.1-0.2	SE209178.030	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.1-0.2	SE209178.031	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH22_0.5-0.6	SE209178.032	LB205381	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.1-0.2	SE209178.033	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH24_0.6-0.7	SE209178.034	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.1-0.2	SE209178.035	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH25_0.4-0.5	SE209178.036	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH28_0.1-0.2	SE209178.037	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.1-0.2	SE209178.038	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH30_0.5-0.6	SE209178.039	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_0.1-0.2	SE209178.040	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH32_1.4-1.5	SE209178.041	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.1-0.2	SE209178.042	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH34_0.6-0.7	SE209178.043	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.1-0.2	SE209178.044	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH36_0.7-0.8	SE209178.045	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.1-0.2	SE209178.046	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH38_0.6-0.7	SE209178.047	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.1-0.2	SE209178.048	LB205382	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH40_0.5-0.6	SE209178.049	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.1-0.2	SE209178.050	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH41_0.5-0.6	SE209178.051	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.1-0.2	SE209178.052	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH44_0.5-0.6	SE209178.053	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.1-0.2	SE209178.054	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH46_0.4-0.5	SE209178.055	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH47_0.1-0.2	SE209178.056	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH47_0.4-0.5	SE209178.057	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.1-0.2	SE209178.058	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BH50_0.5-0.6	SE209178.059	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD1	SE209178.060	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD2	SE209178.061	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
BHQD3	SE209178.062	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
TB	SE209178.063	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020
TS	SE209178.064	LB205383	24 Jul 2020	24 Jul 2020	07 Aug 2020	28 Jul 2020	06 Sep 2020	31 Jul 2020

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BHQR1	SE209178.065	LB205449	24 Jul 2020	24 Jul 2020	31 Jul 2020	29 Jul 2020	07 Sep 2020	30 Jul 2020

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 identifer 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]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	110
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	109
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	111
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	110
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	107
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	111
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	102
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	107
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	113
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	108
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	112
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	109
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	115
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	109
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	117
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	116
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	121
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	120
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	115
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	114
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	118
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	116
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	121
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	103
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	111
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	106
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	111
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	106
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	102
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	105
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	100
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	107
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	107
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	71
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	105
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	129
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	116
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	115
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	108
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	112
	BHQD1	SE209178.060	%	60 - 130%	112
	BHQD2	SE209178.061	%	60 - 130%	123
	BHQD3	SE209178.062	%	60 - 130%	123

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	86
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	97
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	88
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	87
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	88
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	89
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	97
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	91
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	86
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	87
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	85
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	89
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	89
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	86
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	88

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH15_1.0-1.1	SE209178.024	%	60 - 130%	90
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	91
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	88
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	84
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	88
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	90
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	89
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	94
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	88
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	96
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	82
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	88
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	90
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	90
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	92
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	86
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	86
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	88
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	88
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	95
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	88
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	94
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	96
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	84
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	84
	BHQD1	SE209178.060	%	60 - 130%	87
	BHQD2	SE209178.061	%	60 - 130%	91
	BHQD3	SE209178.062	%	60 - 130%	83
d14-p-terphenyl (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	76
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	91
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	82
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	84
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	79
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	84
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	86
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	85
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	82
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	86
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	77
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	77
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	88
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	81
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	90
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	83
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	85
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	83
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	81
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	86
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	86
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	87
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	85
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	84
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	94
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	84
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	88
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	92
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	90
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	94
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	92
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	88
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	98

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH38_0.1-0.2	SE209178.046	%	60 - 130%	91
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	97
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	94
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	89
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	86
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	94
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	95
	BHQD1	SE209178.060	%	60 - 130%	95
	BHQD2	SE209178.061	%	60 - 130%	98
	BHQD3	SE209178.062	%	60 - 130%	101

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1_0.1-0.2	SE209178.001	%	70 - 130%	86
	BH1_0.3-0.4	SE209178.002	%	70 - 130%	86
	BH1_0.7-0.8	SE209178.003	%	70 - 130%	97
	BH2_0.1-0.2	SE209178.004	%	70 - 130%	88
	BH2_0.5-0.6	SE209178.005	%	70 - 130%	87
	BH3_0.1-0.2	SE209178.006	%	70 - 130%	88
	BH3_0.7-0.8	SE209178.007	%	70 - 130%	89
	BH4_0.1-0.2	SE209178.008	%	70 - 130%	97
	BH4_0.7-0.8	SE209178.009	%	70 - 130%	99
	BH5_0.1-0.2	SE209178.010	%	70 - 130%	91
	BH5_0.9-1.0	SE209178.011	%	70 - 130%	89
	BH6_0.1-0.2	SE209178.012	%	70 - 130%	86
	BH6_0.7-0.8	SE209178.013	%	70 - 130%	92
	BH8_0.1-0.2	SE209178.014	%	70 - 130%	87
	BH8_0.6-0.7	SE209178.015	%	70 - 130%	89
	BH10_0.1-0.2	SE209178.016	%	70 - 130%	85
	BH10_0.4-0.5	SE209178.017	%	70 - 130%	89
	BH12_0.1-0.2	SE209178.018	%	70 - 130%	76
	BH13_0.1-0.2	SE209178.019	%	70 - 130%	89
	BH13_0.9-1.0	SE209178.020	%	70 - 130%	86
	BH14_0.1-0.2	SE209178.021	%	70 - 130%	91
	BH14_0.6-0.7	SE209178.022	%	70 - 130%	84
	BH15_0.1-0.2	SE209178.023	%	70 - 130%	88
	BH15_1.0-1.1	SE209178.024	%	70 - 130%	90
	BH15_1.5-1.6	SE209178.025	%	70 - 130%	91
	BH17_0.1-0.2	SE209178.026	%	70 - 130%	88
	BH17_0.9-1.0	SE209178.027	%	70 - 130%	84
	BH17_1.5-1.6	SE209178.028	%	70 - 130%	88
	BH20_0.2-0.3	SE209178.029	%	70 - 130%	90
	BH21_0.1-0.2	SE209178.030	%	70 - 130%	89
	BH22_0.1-0.2	SE209178.031	%	70 - 130%	94
	BH22_0.5-0.6	SE209178.032	%	70 - 130%	93
	BH24_0.1-0.2	SE209178.033	%	70 - 130%	88
	BH24_0.6-0.7	SE209178.034	%	70 - 130%	96
	BH25_0.1-0.2	SE209178.035	%	70 - 130%	82
	BH25_0.4-0.5	SE209178.036	%	70 - 130%	88
	BH28_0.1-0.2	SE209178.037	%	70 - 130%	90
	BH30_0.1-0.2	SE209178.038	%	70 - 130%	90
	BH30_0.5-0.6	SE209178.039	%	70 - 130%	92
	BH32_0.1-0.2	SE209178.040	%	70 - 130%	86
	BH32_1.4-1.5	SE209178.041	%	70 - 130%	86
	BH34_0.1-0.2	SE209178.042	%	70 - 130%	86
	BH34_0.6-0.7	SE209178.043	%	70 - 130%	88
	BH36_0.1-0.2	SE209178.044	%	70 - 130%	88
	BH36_0.7-0.8	SE209178.045	%	70 - 130%	90
	BH38_0.1-0.2	SE209178.046	%	70 - 130%	88
	BH38_0.6-0.7	SE209178.047	%	70 - 130%	88
	BH40_0.1-0.2	SE209178.048	%	70 - 130%	95

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 identifer 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**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH40_0.5-0.6	SE209178.049	%	70 - 130%	88
	BH41_0.1-0.2	SE209178.050	%	70 - 130%	88
	BH41_0.5-0.6	SE209178.051	%	70 - 130%	94
	BH44_0.1-0.2	SE209178.052	%	70 - 130%	87
	BH44_0.5-0.6	SE209178.053	%	70 - 130%	87
	BH46_0.1-0.2	SE209178.054	%	70 - 130%	96
	BH46_0.4-0.5	SE209178.055	%	70 - 130%	85
	BH47_0.1-0.2	SE209178.056	%	70 - 130%	84
	BH47_0.4-0.5	SE209178.057	%	70 - 130%	87
	BH50_0.1-0.2	SE209178.058	%	70 - 130%	84
	BH50_0.5-0.6	SE209178.059	%	70 - 130%	86
	BHQD1	SE209178.060	%	70 - 130%	87
	BHQD2	SE209178.061	%	70 - 130%	91
	BHQD3	SE209178.062	%	70 - 130%	83
d14-p-terphenyl (Surrogate)	BH1_0.1-0.2	SE209178.001	%	70 - 130%	76
	BH1_0.3-0.4	SE209178.002	%	70 - 130%	82
	BH1_0.7-0.8	SE209178.003	%	70 - 130%	91
	BH2_0.1-0.2	SE209178.004	%	70 - 130%	82
	BH2_0.5-0.6	SE209178.005	%	70 - 130%	84
	BH3_0.1-0.2	SE209178.006	%	70 - 130%	79
	BH3_0.7-0.8	SE209178.007	%	70 - 130%	84
	BH4_0.1-0.2	SE209178.008	%	70 - 130%	86
	BH4_0.7-0.8	SE209178.009	%	70 - 130%	82
	BH5_0.1-0.2	SE209178.010	%	70 - 130%	85
	BH5_0.9-1.0	SE209178.011	%	70 - 130%	79
	BH6_0.1-0.2	SE209178.012	%	70 - 130%	82
	BH6_0.7-0.8	SE209178.013	%	70 - 130%	88
	BH8_0.1-0.2	SE209178.014	%	70 - 130%	86
	BH8_0.6-0.7	SE209178.015	%	70 - 130%	84
	BH10_0.1-0.2	SE209178.016	%	70 - 130%	77
	BH10_0.4-0.5	SE209178.017	%	70 - 130%	77
	BH12_0.1-0.2	SE209178.018	%	70 - 130%	72
	BH13_0.1-0.2	SE209178.019	%	70 - 130%	88
	BH13_0.9-1.0	SE209178.020	%	70 - 130%	81
	BH14_0.1-0.2	SE209178.021	%	70 - 130%	86
	BH14_0.6-0.7	SE209178.022	%	70 - 130%	77
	BH15_0.1-0.2	SE209178.023	%	70 - 130%	90
	BH15_1.0-1.1	SE209178.024	%	70 - 130%	83
	BH15_1.5-1.6	SE209178.025	%	70 - 130%	85
	BH17_0.1-0.2	SE209178.026	%	70 - 130%	83
	BH17_0.9-1.0	SE209178.027	%	70 - 130%	81
	BH17_1.5-1.6	SE209178.028	%	70 - 130%	86
	BH20_0.2-0.3	SE209178.029	%	70 - 130%	86
	BH21_0.1-0.2	SE209178.030	%	70 - 130%	87
	BH22_0.1-0.2	SE209178.031	%	70 - 130%	85
	BH22_0.5-0.6	SE209178.032	%	70 - 130%	83
	BH24_0.1-0.2	SE209178.033	%	70 - 130%	84
	BH24_0.6-0.7	SE209178.034	%	70 - 130%	94
	BH25_0.1-0.2	SE209178.035	%	70 - 130%	84
	BH25_0.4-0.5	SE209178.036	%	70 - 130%	88
	BH28_0.1-0.2	SE209178.037	%	70 - 130%	92
	BH30_0.1-0.2	SE209178.038	%	70 - 130%	90
	BH30_0.5-0.6	SE209178.039	%	70 - 130%	94
	BH32_0.1-0.2	SE209178.040	%	70 - 130%	92
	BH32_1.4-1.5	SE209178.041	%	70 - 130%	86
	BH34_0.1-0.2	SE209178.042	%	70 - 130%	88
	BH34_0.6-0.7	SE209178.043	%	70 - 130%	84
	BH36_0.1-0.2	SE209178.044	%	70 - 130%	98
	BH36_0.7-0.8	SE209178.045	%	70 - 130%	99
	BH38_0.1-0.2	SE209178.046	%	70 - 130%	91
	BH38_0.6-0.7	SE209178.047	%	70 - 130%	96

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 identifer 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**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH40_0.1-0.2	SE209178.048	%	70 - 130%	97
	BH40_0.5-0.6	SE209178.049	%	70 - 130%	92
	BH41_0.1-0.2	SE209178.050	%	70 - 130%	94
	BH41_0.5-0.6	SE209178.051	%	70 - 130%	89
	BH44_0.1-0.2	SE209178.052	%	70 - 130%	88
	BH44_0.5-0.6	SE209178.053	%	70 - 130%	87
	BH46_0.1-0.2	SE209178.054	%	70 - 130%	86
	BH46_0.4-0.5	SE209178.055	%	70 - 130%	92
	BH47_0.1-0.2	SE209178.056	%	70 - 130%	94
	BH47_0.4-0.5	SE209178.057	%	70 - 130%	94
	BH50_0.1-0.2	SE209178.058	%	70 - 130%	95
	BH50_0.5-0.6	SE209178.059	%	70 - 130%	96
	BHQD1	SE209178.060	%	70 - 130%	95
	BHQD2	SE209178.061	%	70 - 130%	98
	BHQD3	SE209178.062	%	70 - 130%	101
d5-nitrobenzene (Surrogate)	BH1_0.1-0.2	SE209178.001	%	70 - 130%	82
	BH1_0.3-0.4	SE209178.002	%	70 - 130%	85
	BH1_0.7-0.8	SE209178.003	%	70 - 130%	89
	BH2_0.1-0.2	SE209178.004	%	70 - 130%	87
	BH2_0.5-0.6	SE209178.005	%	70 - 130%	82
	BH3_0.1-0.2	SE209178.006	%	70 - 130%	82
	BH3_0.7-0.8	SE209178.007	%	70 - 130%	85
	BH4_0.1-0.2	SE209178.008	%	70 - 130%	91
	BH4_0.7-0.8	SE209178.009	%	70 - 130%	89
	BH5_0.1-0.2	SE209178.010	%	70 - 130%	84
	BH5_0.9-1.0	SE209178.011	%	70 - 130%	80
	BH6_0.1-0.2	SE209178.012	%	70 - 130%	85
	BH6_0.7-0.8	SE209178.013	%	70 - 130%	87
	BH8_0.1-0.2	SE209178.014	%	70 - 130%	86
	BH8_0.6-0.7	SE209178.015	%	70 - 130%	85
	BH10_0.1-0.2	SE209178.016	%	70 - 130%	77
	BH10_0.4-0.5	SE209178.017	%	70 - 130%	82
	BH12_0.1-0.2	SE209178.018	%	70 - 130%	74
	BH13_0.1-0.2	SE209178.019	%	70 - 130%	84
	BH13_0.9-1.0	SE209178.020	%	70 - 130%	80
	BH14_0.1-0.2	SE209178.021	%	70 - 130%	90
	BH14_0.6-0.7	SE209178.022	%	70 - 130%	79
	BH15_0.1-0.2	SE209178.023	%	70 - 130%	85
	BH15_1.0-1.1	SE209178.024	%	70 - 130%	82
	BH15_1.5-1.6	SE209178.025	%	70 - 130%	85
	BH17_0.1-0.2	SE209178.026	%	70 - 130%	85
	BH17_0.9-1.0	SE209178.027	%	70 - 130%	84
	BH17_1.5-1.6	SE209178.028	%	70 - 130%	86
	BH20_0.2-0.3	SE209178.029	%	70 - 130%	87
	BH21_0.1-0.2	SE209178.030	%	70 - 130%	85
	BH22_0.1-0.2	SE209178.031	%	70 - 130%	89
	BH22_0.5-0.6	SE209178.032	%	70 - 130%	85
	BH24_0.1-0.2	SE209178.033	%	70 - 130%	92
	BH24_0.6-0.7	SE209178.034	%	70 - 130%	96
	BH25_0.1-0.2	SE209178.035	%	70 - 130%	82
	BH25_0.4-0.5	SE209178.036	%	70 - 130%	86
	BH28_0.1-0.2	SE209178.037	%	70 - 130%	90
	BH30_0.1-0.2	SE209178.038	%	70 - 130%	90
	BH30_0.5-0.6	SE209178.039	%	70 - 130%	90
	BH32_0.1-0.2	SE209178.040	%	70 - 130%	84
	BH32_1.4-1.5	SE209178.041	%	70 - 130%	84
	BH34_0.1-0.2	SE209178.042	%	70 - 130%	84
	BH34_0.6-0.7	SE209178.043	%	70 - 130%	86
	BH36_0.1-0.2	SE209178.044	%	70 - 130%	88
	BH36_0.7-0.8	SE209178.045	%	70 - 130%	88
	BH38_0.1-0.2	SE209178.046	%	70 - 130%	87

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 identifer 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	BH38_0.6-0.7	SE209178.047	%	70 - 130%	88
	BH40_0.1-0.2	SE209178.048	%	70 - 130%	93
	BH40_0.5-0.6	SE209178.049	%	70 - 130%	88
	BH41_0.1-0.2	SE209178.050	%	70 - 130%	87
	BH41_0.5-0.6	SE209178.051	%	70 - 130%	86
	BH44_0.1-0.2	SE209178.052	%	70 - 130%	86
	BH44_0.5-0.6	SE209178.053	%	70 - 130%	89
	BH46_0.1-0.2	SE209178.054	%	70 - 130%	88
	BH46_0.4-0.5	SE209178.055	%	70 - 130%	88
	BH47_0.1-0.2	SE209178.056	%	70 - 130%	87
	BH47_0.4-0.5	SE209178.057	%	70 - 130%	88
	BH50_0.1-0.2	SE209178.058	%	70 - 130%	87
	BH50_0.5-0.6	SE209178.059	%	70 - 130%	89
	BHQD1	SE209178.060	%	70 - 130%	90
	BHQD2	SE209178.061	%	70 - 130%	92
	BHQD3	SE209178.062	%	70 - 130%	90

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	110
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	109
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	111
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	110
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	107
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	111
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	54 †
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	107
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	113
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	108
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	112
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	109
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	115
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	109
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	117
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	116
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	121
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	120
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	115
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	114
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	118
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	116
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	121
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	103
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	111
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	106
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	111
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	106
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	102
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	105
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	100
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	107
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	107
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	71
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	105
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	129
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	116
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	115
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	108
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	112
	BHQD1	SE209178.060	%	60 - 130%	112
	BHQD2	SE209178.061	%	60 - 130%	123

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BHQD3	SE209178.062	%	60 - 130%	123

VOC's in Soil — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	85
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	93
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	98
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	84
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	92
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	90
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	91
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	92
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	91
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	90
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	91
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	93
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	87
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	92
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	89
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	87
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	82
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	72
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	74
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	70
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	73
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	72
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	77
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	75
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	69
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	73
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	72
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	71
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	71
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	76
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	71
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	74
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	90
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	93
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	93
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	98
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	96
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	94
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	100
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	88
	BH32_1.4-1.5	SE209178.041	%	60 - 130%	96
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	99
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	96
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	97
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	99
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	85
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	94
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	93
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	71
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	69
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	71
	BH44_0.1-0.2	SE209178.052	%	60 - 130%	75
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	77
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	73
	BH46_0.4-0.5	SE209178.055	%	60 - 130%	73
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	75
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	74

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH50_0.1-0.2	SE209178.058	%	60 - 130%	75
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	72
	BHQD1	SE209178.060	%	60 - 130%	70
	BHQD2	SE209178.061	%	60 - 130%	69
	BHQD3	SE209178.062	%	60 - 130%	69
	TB	SE209178.063	%	60 - 130%	78
	TS	SE209178.064	%	60 - 130%	70
d4-1,2-dichloroethane (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	81
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	88
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	90
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	103
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	86
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	113
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	84
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	90
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	87
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	84
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	81
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	92
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	86
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	83
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	90
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	86
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	93
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	85
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	86
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	83
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	86
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	87
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	91
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	89
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	82
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	86
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	87
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	88
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	85
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	91
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	85
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	90
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	82
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	95
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	96
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	93
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	84
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	91
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	97
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	84
	BH32_1.4-1.5	SE209178.041	%	60 - 130%	97
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	90
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	88
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	91
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	87
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	85
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	88
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	91
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	84
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	80
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	82
	BH44_0.1-0.2	SE209178.052	%	60 - 130%	86
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	91
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	87

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH46_0.4-0.5	SE209178.055	%	60 - 130%	87
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	90
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	89
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	91
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	87
	BHQD1	SE209178.060	%	60 - 130%	85
	BHQD2	SE209178.061	%	60 - 130%	84
	BHQD3	SE209178.062	%	60 - 130%	83
	TB	SE209178.063	%	60 - 130%	98
	TS	SE209178.064	%	60 - 130%	83
d8-toluene (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	79
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	86
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	90
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	74
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	82
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	83
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	82
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	84
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	83
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	81
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	83
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	84
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	80
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	84
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	83
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	80
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	93
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	84
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	87
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	83
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	86
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	87
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	92
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	90
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	83
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	87
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	88
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	89
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	85
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	92
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	86
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	91
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	88
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	90
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	88
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	99
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	85
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	86
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	89
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	82
	BH32_1.4-1.5	SE209178.041	%	60 - 130%	81
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	88
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	83
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	86
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	85
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	79
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	83
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	92
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	85
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	80
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	83

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH44_0.1-0.2	SE209178.052	%	60 - 130%	87
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	92
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	88
	BH46_0.4-0.5	SE209178.055	%	60 - 130%	88
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	90
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	89
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	93
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	90
	BHQD1	SE209178.060	%	60 - 130%	87
	BHQD2	SE209178.061	%	60 - 130%	85
	BHQD3	SE209178.062	%	60 - 130%	84
	TB	SE209178.063	%	60 - 130%	99
	TS	SE209178.064	%	60 - 130%	85

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BHQR1	SE209178.065	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	BHQR1	SE209178.065	%	40 - 130%	104
d8-toluene (Surrogate)	BHQR1	SE209178.065	%	40 - 130%	101

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	85
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	93
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	98
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	84
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	92
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	90
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	91
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	92
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	91
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	90
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	91
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	93
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	87
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	92
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	89
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	87
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	82
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	72
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	74
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	70
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	73
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	72
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	77
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	75
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	69
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	73
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	72
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	71
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	71
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	76
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	71
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	74
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	90
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	93
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	93
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	98
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	96
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	94
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	100
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	88

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 identifer 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 %
Bromofluorobenzene (Surrogate)	BH32_1.4-1.5	SE209178.041	%	60 - 130%	96
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	99
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	96
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	97
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	99
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	85
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	94
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	93
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	71
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	69
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	71
	BH44_0.1-0.2	SE209178.052	%	60 - 130%	75
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	77
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	73
	BH46_0.4-0.5	SE209178.055	%	60 - 130%	73
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	75
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	74
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	75
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	72
	BHQD1	SE209178.060	%	60 - 130%	70
	BHQD2	SE209178.061	%	60 - 130%	69
	BHQD3	SE209178.062	%	60 - 130%	69
d4-1,2-dichloroethane (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	81
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	88
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	90
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	103
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	86
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	113
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	84
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	90
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	87
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	84
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	81
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	92
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	86
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	83
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	90
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	86
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	93
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	85
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	86
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	83
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	86
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	87
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	91
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	89
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	82
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	86
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	87
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	88
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	85
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	91
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	85
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	90
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	82
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	95
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	96
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	93
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	84
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	91
	BH30_0.5-0.6	SE209178.039	%	60 - 130%	97

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 identifer 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 %
d4-1,2-dichloroethane (Surrogate)	BH32_0.1-0.2	SE209178.040	%	60 - 130%	84
	BH32_1.4-1.5	SE209178.041	%	60 - 130%	97
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	90
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	88
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	91
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	87
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	85
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	88
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	91
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	84
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	80
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	82
	BH44_0.1-0.2	SE209178.052	%	60 - 130%	86
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	91
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	87
	BH46_0.4-0.5	SE209178.055	%	60 - 130%	87
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	90
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	89
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	91
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	87
	BHQD1	SE209178.060	%	60 - 130%	85
	BHQD2	SE209178.061	%	60 - 130%	84
	BHQD3	SE209178.062	%	60 - 130%	83
d8-toluene (Surrogate)	BH1_0.1-0.2	SE209178.001	%	60 - 130%	79
	BH1_0.3-0.4	SE209178.002	%	60 - 130%	86
	BH1_0.7-0.8	SE209178.003	%	60 - 130%	90
	BH2_0.1-0.2	SE209178.004	%	60 - 130%	74
	BH2_0.5-0.6	SE209178.005	%	60 - 130%	82
	BH3_0.1-0.2	SE209178.006	%	60 - 130%	83
	BH3_0.7-0.8	SE209178.007	%	60 - 130%	82
	BH4_0.1-0.2	SE209178.008	%	60 - 130%	84
	BH4_0.7-0.8	SE209178.009	%	60 - 130%	83
	BH5_0.1-0.2	SE209178.010	%	60 - 130%	81
	BH5_0.9-1.0	SE209178.011	%	60 - 130%	83
	BH6_0.1-0.2	SE209178.012	%	60 - 130%	84
	BH6_0.7-0.8	SE209178.013	%	60 - 130%	80
	BH8_0.1-0.2	SE209178.014	%	60 - 130%	84
	BH8_0.6-0.7	SE209178.015	%	60 - 130%	83
	BH10_0.1-0.2	SE209178.016	%	60 - 130%	80
	BH10_0.4-0.5	SE209178.017	%	60 - 130%	93
	BH12_0.1-0.2	SE209178.018	%	60 - 130%	84
	BH13_0.1-0.2	SE209178.019	%	60 - 130%	87
	BH13_0.9-1.0	SE209178.020	%	60 - 130%	83
	BH14_0.1-0.2	SE209178.021	%	60 - 130%	86
	BH14_0.6-0.7	SE209178.022	%	60 - 130%	87
	BH15_0.1-0.2	SE209178.023	%	60 - 130%	92
	BH15_1.0-1.1	SE209178.024	%	60 - 130%	90
	BH15_1.5-1.6	SE209178.025	%	60 - 130%	83
	BH17_0.1-0.2	SE209178.026	%	60 - 130%	87
	BH17_0.9-1.0	SE209178.027	%	60 - 130%	88
	BH17_1.5-1.6	SE209178.028	%	60 - 130%	89
	BH20_0.2-0.3	SE209178.029	%	60 - 130%	85
	BH21_0.1-0.2	SE209178.030	%	60 - 130%	92
	BH22_0.1-0.2	SE209178.031	%	60 - 130%	86
	BH22_0.5-0.6	SE209178.032	%	60 - 130%	91
	BH24_0.1-0.2	SE209178.033	%	60 - 130%	88
	BH24_0.6-0.7	SE209178.034	%	60 - 130%	90
	BH25_0.1-0.2	SE209178.035	%	60 - 130%	88
	BH25_0.4-0.5	SE209178.036	%	60 - 130%	99
	BH28_0.1-0.2	SE209178.037	%	60 - 130%	85
	BH30_0.1-0.2	SE209178.038	%	60 - 130%	86

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 identifer 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)	BH30_0.5-0.6	SE209178.039	%	60 - 130%	89
	BH32_0.1-0.2	SE209178.040	%	60 - 130%	82
	BH32_1.4-1.5	SE209178.041	%	60 - 130%	81
	BH34_0.1-0.2	SE209178.042	%	60 - 130%	88
	BH34_0.6-0.7	SE209178.043	%	60 - 130%	83
	BH36_0.1-0.2	SE209178.044	%	60 - 130%	86
	BH36_0.7-0.8	SE209178.045	%	60 - 130%	85
	BH38_0.1-0.2	SE209178.046	%	60 - 130%	79
	BH38_0.6-0.7	SE209178.047	%	60 - 130%	83
	BH40_0.1-0.2	SE209178.048	%	60 - 130%	92
	BH40_0.5-0.6	SE209178.049	%	60 - 130%	85
	BH41_0.1-0.2	SE209178.050	%	60 - 130%	80
	BH41_0.5-0.6	SE209178.051	%	60 - 130%	83
	BH44_0.1-0.2	SE209178.052	%	60 - 130%	87
	BH44_0.5-0.6	SE209178.053	%	60 - 130%	92
	BH46_0.1-0.2	SE209178.054	%	60 - 130%	88
	BH46_0.4-0.5	SE209178.055	%	60 - 130%	88
	BH47_0.1-0.2	SE209178.056	%	60 - 130%	90
	BH47_0.4-0.5	SE209178.057	%	60 - 130%	89
	BH50_0.1-0.2	SE209178.058	%	60 - 130%	93
	BH50_0.5-0.6	SE209178.059	%	60 - 130%	90
	BHQD1	SE209178.060	%	60 - 130%	87
	BHQD2	SE209178.061	%	60 - 130%	85
	BHQD3	SE209178.062	%	60 - 130%	84

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BHQR1	SE209178.065	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	BHQR1	SE209178.065	%	60 - 130%	104
d8-toluene (Surrogate)	BHQR1	SE209178.065	%	40 - 130%	101

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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB205550.001	Exchangeable Sodium, Na	mg/kg	2	0
	Exchangeable Potassium, K	mg/kg	2	0
	Exchangeable Calcium, Ca	mg/kg	2	0
	Exchangeable Magnesium, Mg	mg/kg	2	0

Mercury (dissolved) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB205592.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB205484.001	Mercury	mg/kg	0.05	<0.05
LB205485.001	Mercury	mg/kg	0.05	<0.05
LB205486.001	Mercury	mg/kg	0.05	<0.05
LB205487.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB205384.001		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)	%	-	101
LB205385.001		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

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.

OC Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB205385.001		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)	%	-	111
LB205386.001		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)	%	-	100
LB205387.001		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)	%	-	112

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB205384.001	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

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.

OP Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB205384.001		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
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	97
		d14-p-terphenyl (Surrogate)	%	-	90
LB205385.001		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
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	90
		d14-p-terphenyl (Surrogate)	%	-	86
LB205386.001		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
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	88
		d14-p-terphenyl (Surrogate)	%	-	92
LB205387.001		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
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	92
		d14-p-terphenyl (Surrogate)	%	-	95

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB205384.001	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
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	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
LB205384.001		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)	%	-	94
		2-fluorobiphenyl (Surrogate)	%	-	97
		d14-p-terphenyl (Surrogate)	%	-	90
LB205385.001		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
		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)	%	-	83
		2-fluorobiphenyl (Surrogate)	%	-	90
		d14-p-terphenyl (Surrogate)	%	-	86
LB205386.001		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
		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)	%	-	90
		2-fluorobiphenyl (Surrogate)	%	-	88
		d14-p-terphenyl (Surrogate)	%	-	92
LB205387.001		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
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)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
LB205387.001		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)	%	-	94
		2-fluorobiphenyl (Surrogate)	%	-	92
		d14-p-terphenyl (Surrogate)	%	-	95

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB205384.001		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)	%	-	101
LB205385.001		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)	%	-	111
LB205386.001		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)	%	-	100
LB205387.001		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)	%	-	112

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

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

Sample Number	Parameter	Units	LOR	Result
LB205473.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	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.

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

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

Sample Number	Parameter	Units	LOR	Result
LB205473.001	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
LB205474.001	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
LB205475.001	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
LB205476.001	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
LB205414.001	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
LB205384.001	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
LB205385.001	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
LB205386.001	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
LB205387.001	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

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 (Total Recoverable Hydrocarbons) in Water (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB205439.001		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	Result
LB205380.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	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)	%	-	93
		d8-toluene (Surrogate)	%	-	91
		Bromofluorobenzene (Surrogate)	%	-	100
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB205381.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	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)	%	-	88
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	78
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB205382.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	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)	%	-	82
		d8-toluene (Surrogate)	%	-	77
		Bromofluorobenzene (Surrogate)	%	-	82
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB205383.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	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)	%	-	95
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	83
	Totals	Total BTEX	mg/kg	0.6	<0.6

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB205449.001	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5
	Hydrocarbons	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)	%	-	99
		d8-toluene (Surrogate)	%	-	99
		Bromofluorobenzene (Surrogate)	%	-	101

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR

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.

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB205380.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
LB205381.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88
LB205382.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	82
LB205383.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result
LB205449.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	99
		d8-toluene (Surrogate)	%	-	99
		Bromofluorobenzene (Surrogate)	%	-	101

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209307.001	LB205592.013	Mercury	µg/L	0.0001	<0.0001	0.0001	74	10

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.008	LB205484.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209178.018	LB205485.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209178.027	LB205485.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209178.037	LB205486.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209178.046	LB205486.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209178.056	LB205487.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209231.003	LB205487.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE209267.003	LB205484.014	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 %
SE209178.010	LB205388.011	% Moisture	%w/w	1	6.9	5.0	47	31
SE209178.016	LB205388.018	% Moisture	%w/w	1	15.2	14.5	37	5
SE209178.026	LB205389.011	% Moisture	%w/w	1	11.4	11.6	39	1
SE209178.032	LB205389.018	% Moisture	%w/w	1	23.8	23.7	34	1
SE209178.042	LB205390.011	% Moisture	%w/w	1	21.7	23.9	34	10
SE209178.048	LB205390.018	% Moisture	%w/w	1	11.2	10.3	39	8
SE209178.058	LB205391.011	% Moisture	%w/w	1	9.5	9.8	40	3

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.016	LB205384.021		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	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
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	1
SE209178.026	LB205385.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.026	LB205385.014		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	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
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.18	0.17	30	4
SE209178.042	LB205386.014		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	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
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	3
SE209178.061	LB205387.022		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0	200	0
			Alpha BHC	mg/kg	0.1	<0.1	0	200	0
			Lindane	mg/kg	0.1	<0.1	0	200	0
			Heptachlor	mg/kg	0.1	<0.1	0	200	0
			Aldrin	mg/kg	0.1	<0.1	0	200	0
			Beta BHC	mg/kg	0.1	<0.1	0	200	0
			Delta BHC	mg/kg	0.1	<0.1	0	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	0	200	0
			o,p'-DDE	mg/kg	0.1	<0.1	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.061	LB205387.022		Alpha Endosulfan	mg/kg	0.2	<0.2	0	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	0	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	0	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	0	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	0	200	0
			Dieldrin	mg/kg	0.2	<0.2	0	200	0
			Endrin	mg/kg	0.2	<0.2	0	200	0
			o,p'-DDD	mg/kg	0.1	<0.1	0	200	0
			o,p'-DDT	mg/kg	0.1	<0.1	0	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	0	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	0	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	0	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	0	200	0
			Endrin Aldehyde	mg/kg	0.1	<0.1	0	200	0
			Methoxychlor	mg/kg	0.1	<0.1	0	200	0
			Endrin Ketone	mg/kg	0.1	<0.1	0	200	0
			Isodrin	mg/kg	0.1	<0.1	0	200	0
			Mirex	mg/kg	0.1	<0.1	0	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	0	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.18	0.18	30	3

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205384.014		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	-	0.5	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
SE209178.016	LB205384.021		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	0.5	30	12
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	7
SE209178.026	LB205385.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.026	LB205385.014		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	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
SE209178.042	LB205386.014		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	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	5
SE209178.048	LB205386.021		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	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE209178.058	LB205387.014		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	0.5	30	13
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205384.014	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	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205384.014		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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
SE209178.016	LB205384.021		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	12
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	12
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	7
SE209178.026	LB205385.014		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	197	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	185	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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.026	LB205385.014	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
SE209178.032	LB205385.021		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	0.5	30	10
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	9
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	15
SE209178.042	LB205386.014		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	5
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	5
SE209178.048	LB205386.021		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.048	LB205386.021		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	-	0.5	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE209178.058	LB205387.014		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	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			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	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	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	0.5	30	13
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PCBs in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.016	LB205384.021		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	1
SE209178.026	LB205385.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.026	LB205385.014		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	4
SE209178.042	LB205386.014		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
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	3
SE209178.061	LB205387.022		Arochlor 1016	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1221	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1232	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1242	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1248	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1254	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1260	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1262	mg/kg	0.2	NVL	NVL	NVL	NVL
			Arochlor 1268	mg/kg	0.2	NVL	NVL	NVL	NVL
			Total PCBs (Arochlors)	mg/kg	1	NVL	NVL	NVL	NVL
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0.18	30	3

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE208090A.011	LB205634.025	pH	pH Units	0.1	8.777	8.906	31	1
SE209140.010	LB205630.014	pH	pH Units	0.1	7.8	7.5	31	4
SE209178.003	LB205634.026	pH	pH Units	0.1	6.3	6.216	32	2
SE209178.020	LB205630.017	pH	pH Units	0.1	4.5	4.4	32	1
SE209258.001	LB205671.018	pH	pH Units	0.1	8.4	8.38	31	1
SE209345.001	LB205671.019	pH	pH Units	0.1	7.0	7.425	31	5

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 %
SE209178.008	LB205473.024	Arsenic, As	mg/kg	1	3	3	61	17
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	9.1	6.9	36	27
		Copper, Cu	mg/kg	0.5	3.0	2.8	47	7
		Nickel, Ni	mg/kg	0.5	2.3	2.4	51	2
		Lead, Pb	mg/kg	1	12	10	39	14
		Zinc, Zn	mg/kg	2	7.3	6.0	60	19
SE209178.018	LB205474.014	Arsenic, As	mg/kg	1	5	4	53	11
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	9.9	11	35	6
		Copper, Cu	mg/kg	0.5	4.3	4.1	42	6
		Nickel, Ni	mg/kg	0.5	3.7	3.9	43	4
		Lead, Pb	mg/kg	1	12	12	38	1
		Zinc, Zn	mg/kg	2	15	13	44	12
SE209178.027	LB205474.024	Arsenic, As	mg/kg	1	7	6	46	19
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	13	13	34	3
		Copper, Cu	mg/kg	0.5	4.1	4.7	41	12
		Nickel, Ni	mg/kg	0.5	2.6	2.3	50	15
		Lead, Pb	mg/kg	1	13	11	38	23
		Zinc, Zn	mg/kg	2	15	10	46	39
SE209178.037	LB205475.014	Arsenic, As	mg/kg	1	4	4	54	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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 %
SE209178.037	LB205475.014	Chromium, Cr	mg/kg	0.5	13	14	34	10
		Copper, Cu	mg/kg	0.5	12	11	35	8
		Nickel, Ni	mg/kg	0.5	1.8	1.8	57	1
		Lead, Pb	mg/kg	1	12	11	39	4
		Zinc, Zn	mg/kg	2	14	14	45	1
SE209178.046	LB205475.024	Arsenic, As	mg/kg	1	6	7	45	13
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	12	15	34	21
		Copper, Cu	mg/kg	0.5	9.1	7.9	36	14
		Nickel, Ni	mg/kg	0.5	6.8	6.2	38	9
		Lead, Pb	mg/kg	1	12	14	37	15
		Zinc, Zn	mg/kg	2	9.0	9.5	52	5
SE209178.056	LB205476.014	Arsenic, As	mg/kg	1	6	7	46	16
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	15	16	33	5
		Copper, Cu	mg/kg	0.5	7.6	8.0	36	5
		Nickel, Ni	mg/kg	0.5	6.4	6.1	38	5
		Lead, Pb	mg/kg	1	18	19	35	5
		Zinc, Zn	mg/kg	2	15	12	45	21
SE209231.003	LB205476.024	Arsenic, As	mg/kg	1	2	2	77	7
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	6.6	6.1	38	8
		Copper, Cu	mg/kg	0.5	6.7	6.3	38	6
		Nickel, Ni	mg/kg	0.5	4.9	4.6	41	7
		Lead, Pb	mg/kg	1	8	7	43	9
		Zinc, Zn	mg/kg	2	25	23	38	6
SE209267.003	LB205473.014	Arsenic, As	mg/kg	1	4	4	55	9
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	18	33	10
		Copper, Cu	mg/kg	0.5	8.0	8.4	36	5
		Nickel, Ni	mg/kg	0.5	1.4	1.3	67	2
		Lead, Pb	mg/kg	1	44	42	32	6
		Zinc, Zn	mg/kg	2	47	36	35	26

Trace Metals (Dissolved) in Water by ICPMS

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209253.002	LB205414.012	Arsenic, As	µg/L	1	3	3	52	3
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	26	26	19	1
		Copper, Cu	µg/L	1	21	21	20	2
		Lead, Pb	µg/L	1	<1	<1	200	0
		Nickel, Ni	µg/L	1	3	3	52	3
		Zinc, Zn	µg/L	5	<5	<5	168	0

TRH (Total Recoverable Hydrocarbons) in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205384.014		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
SE209178.016	LB205384.021		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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]AN403**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.016	LB205384.021	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
SE209178.026	LB205385.014		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
SE209178.032	LB205385.021		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
SE209178.042	LB205386.014		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
SE209178.048	LB205386.021		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
SE209178.058	LB205387.014		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
SE209178.061	LB205387.021		TRH C10-C14	mg/kg	20	<20	0	200	0
			TRH C15-C28	mg/kg	45	<45	59	136	27
			TRH C29-C36	mg/kg	45	51	128	80	86 ②
			TRH C37-C40	mg/kg	100	<100	0	200	0
			TRH C10-C36 Total	mg/kg	110	<110	187	122	52
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	131	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.061	LB205387.021	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	0	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	131	128	37
			TRH >C34-C40 (F4)	mg/kg	120	<120	0	200	0

VOC's in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205380.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	8.4	8.4	50	0
			d8-toluene (Surrogate)	mg/kg	-	8.1	8.2	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	8.9	50	1
		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
SE209178.016	LB205380.021	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	8.6	8.6	50	0
			d8-toluene (Surrogate)	mg/kg	-	8.0	8.0	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	8.6	50	1
		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
SE209178.026	LB205381.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	8.6	8.7	50	1
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.7	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.3	50	0
		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
SE209178.032	LB205381.021	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	9.0	8.8	50	2
			d8-toluene (Surrogate)	mg/kg	-	9.1	9.0	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.3	50	2
		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
SE209178.042	LB205382.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	9.0	9.5	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.7	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.1	50	8
		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 = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.048	LB205382.021	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	9.1	8.5	50	7
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.1	50	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	8.9	50	5
		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
SE209178.058	LB205383.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	-	9.1	8.4	50	9
			d8-toluene (Surrogate)	mg/kg	-	9.3	8.5	50	9
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.5	6.8	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
SE209178.062	LB205383.022	Monocyclic	Benzene	mg/kg	0.1	<0.1	0	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	0.0016025395	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	0.0003972089	200	0
			m/p-xylene	mg/kg	0.2	<0.2	0.0010763294	200	0
			o-xylene	mg/kg	0.1	<0.1	0.0004979427	200	0
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	0.0011367426	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.6338015537	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8809334398	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	7.1756915472	50	4
		Totals	Total Xylenes	mg/kg	0.3	<0.3	0.0015742721	200	0
			Total BTEX	mg/kg	0.6	<0.6	0	200	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209129.008	LB205449.020	Monocyclic	Benzene	µg/L	0.5	<0.5	0	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	0.1335386020	200	0
			Ethylbenzene	µg/L	0.5	<0.5	0.3404376309	181	0
			m/p-xylene	µg/L	1	1	1.5795652835	98	14
			o-xylene	µg/L	0.5	<0.5	0.1652603819	200	0
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	0.1688686876	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	9.4552074501	30	3
			d8-toluene (Surrogate)	µg/L	-	0.0	9.5683440329	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	9.9592198159	30	1
SE209191.001	LB205449.021	Monocyclic	Benzene	µg/L	0.5	<0.5	0	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	0.3576179180	171	0
			Ethylbenzene	µg/L	0.5	<0.5	0.0481598581	200	0
			m/p-xylene	µg/L	1	<1	0.2530472343	200	0
			o-xylene	µg/L	0.5	<0.5	0	200	0
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	0.3192096808	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10	9.7168792398	30	7
			d8-toluene (Surrogate)	µg/L	-	10	9.9850438901	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	11	10.413654744	30	3

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205380.014		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	-	8.4	8.4	30	0
			d8-toluene (Surrogate)	mg/kg	-	8.1	8.2	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	8.9	30	1

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer 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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209178.010	LB205380.014	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
SE209178.016	LB205380.021		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	-	8.6	8.6	30	0
			d8-toluene (Surrogate)	mg/kg	-	8.0	8.0	30	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	8.6	30	1
		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
SE209178.026	LB205381.014		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	-	8.6	8.7	30	1
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.7	30	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.3	30	0
		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
SE209178.032	LB205381.021		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	-	9.0	8.8	30	2
			d8-toluene (Surrogate)	mg/kg	-	9.1	9.0	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.3	30	2
		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
SE209178.042	LB205382.014		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	-	9.0	9.5	30	5
			d8-toluene (Surrogate)	mg/kg	-	8.8	8.7	30	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.1	30	8
		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
SE209178.048	LB205382.021		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	8.5	30	7
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.1	30	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	8.9	30	5
		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
SE209178.058	LB205383.014		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	-	9.1	8.4	30	9
			d8-toluene (Surrogate)	mg/kg	-	9.3	8.5	30	9
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.5	6.8	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
SE209178.062	LB205383.022		TRH C6-C10	mg/kg	25	<25	0	200	0
			TRH C6-C9	mg/kg	20	<20	0	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.6338015537	30	4
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8809334398	30	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	7.1756915472	30	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	0	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	0	200	0

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209129.008	LB205449.020		TRH C6-C10	µg/L	50	<50	6.0699290529	200	0
			TRH C6-C9	µg/L	40	<40	5.2619005287	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	9.4552074501	30	3
			d8-toluene (Surrogate)	µg/L	-	0.0	9.5683440329	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	9.9592198159	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	4.4903637693	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE209191.001	LB205449.021		TRH C6-C10	µg/L	50	<50	13.9315030090	200	0
			TRH C6-C9	µg/L	40	<40	7.9696162054	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10	9.7168792398	30	7
			d8-toluene (Surrogate)	µg/L	-	10	9.9850438901	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	11	10.413654744	30	3
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	13.9315030090	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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205550.002	Exchangeable Sodium, Na	meq/100g	0.01	0.19	0.194	80 - 120	100
	Exchangeable Potassium, K	meq/100g	0.01	0.59	0.63	80 - 120	93
	Exchangeable Calcium, Ca	meq/100g	0.01	5.9	6.3	80 - 120	94
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.0	1.11	80 - 120	91

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205484.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	103
LB205485.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	107
LB205486.002	Mercury	mg/kg	0.05	0.23	0.2	70 - 130	114
LB205487.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	104

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205384.002		Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	134
		Aldrin	mg/kg	0.1	0.3	0.2	60 - 140	132
		Delta BHC	mg/kg	0.1	0.3	0.2	60 - 140	130
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	115
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	122
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	114
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	102
LB205385.002		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	77
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	75
		Delta BHC	mg/kg	0.1	0.1	0.2	60 - 140	75
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	70
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	69
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	61
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	109
LB205386.002		Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	130
		Aldrin	mg/kg	0.1	0.3	0.2	60 - 140	133
		Delta BHC	mg/kg	0.1	0.3	0.2	60 - 140	126
		Dieldrin	mg/kg	0.2	0.3	0.2	60 - 140	135
		Endrin	mg/kg	0.2	0.3	0.2	60 - 140	131
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	92
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	101
LB205387.002		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	79
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	79
		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	78
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	73
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	73
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	63
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.15	40 - 130	111

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205384.002		Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	90
		Diazinon (Dimpylate)	mg/kg	0.5	1.6	2	60 - 140	81
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	85
		Ethion	mg/kg	0.2	1.5	2	60 - 140	75
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
LB205385.002		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	75
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	87
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	94
		Ethion	mg/kg	0.2	1.6	2	60 - 140	82
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	81
LB205386.002		Dichlorvos	mg/kg	0.5	2.0	2	60 - 140	101
		Diazinon (Dimpylate)	mg/kg	0.5	2.2	2	60 - 140	109
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.4	2	60 - 140	119
		Ethion	mg/kg	0.2	1.9	2	60 - 140	93
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	90

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.

OP Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205386.002	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88
LB205387.002		Dichlorvos	mg/kg	0.5	1.7	2	60 - 140	87
		Diazinon (Dimpylate)	mg/kg	0.5	1.6	2	60 - 140	80
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	93
		Ethion	mg/kg	0.2	1.7	2	60 - 140	87
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	89
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	89

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205384.002		Naphthalene	mg/kg	0.1	4.3	4	60 - 140	106
		Acenaphthylene	mg/kg	0.1	4.4	4	60 - 140	109
		Acenaphthene	mg/kg	0.1	4.6	4	60 - 140	116
		Phenanthrene	mg/kg	0.1	4.4	4	60 - 140	111
		Anthracene	mg/kg	0.1	4.3	4	60 - 140	108
		Fluoranthene	mg/kg	0.1	4.5	4	60 - 140	112
		Pyrene	mg/kg	0.1	4.6	4	60 - 140	116
		Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	97
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
LB205385.002		Naphthalene	mg/kg	0.1	4.4	4	60 - 140	110
		Acenaphthylene	mg/kg	0.1	4.5	4	60 - 140	112
		Acenaphthene	mg/kg	0.1	4.7	4	60 - 140	118
		Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	113
		Anthracene	mg/kg	0.1	4.3	4	60 - 140	107
		Fluoranthene	mg/kg	0.1	4.4	4	60 - 140	110
		Pyrene	mg/kg	0.1	4.6	4	60 - 140	115
		Benzo(a)pyrene	mg/kg	0.1	4.1	4	60 - 140	104
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	81
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	81
LB205386.002		Naphthalene	mg/kg	0.1	4.8	4	60 - 140	119
		Acenaphthylene	mg/kg	0.1	4.7	4	60 - 140	118
		Acenaphthene	mg/kg	0.1	4.8	4	60 - 140	119
		Phenanthrene	mg/kg	0.1	5.0	4	60 - 140	125
		Anthracene	mg/kg	0.1	4.9	4	60 - 140	122
		Fluoranthene	mg/kg	0.1	4.7	4	60 - 140	118
		Pyrene	mg/kg	0.1	5.1	4	60 - 140	127
		Benzo(a)pyrene	mg/kg	0.1	5.1	4	60 - 140	127
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88
LB205387.002		Naphthalene	mg/kg	0.1	4.2	4	60 - 140	105
		Acenaphthylene	mg/kg	0.1	4.2	4	60 - 140	105
		Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	104
		Phenanthrene	mg/kg	0.1	4.2	4	60 - 140	105
		Anthracene	mg/kg	0.1	4.3	4	60 - 140	108
		Fluoranthene	mg/kg	0.1	3.8	4	60 - 140	95
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	108
		Benzo(a)pyrene	mg/kg	0.1	4.5	4	60 - 140	112
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	89
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	89

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205384.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	73
LB205385.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	84
LB205386.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	90
LB205387.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	83

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.

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205630.003	pH	pH Units	0.1	7.4	7.415	98 - 102	99
LB205634.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB205671.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

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 %
LB205473.002	Arsenic, As	mg/kg	1	310	318.22	80 - 120	99
	Cadmium, Cd	mg/kg	0.3	5.1	5.41	80 - 120	95
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	99
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	102
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	98
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	260	273	80 - 120	97
LB205474.002	Arsenic, As	mg/kg	1	320	318.22	80 - 120	100
	Cadmium, Cd	mg/kg	0.3	5.4	5.41	80 - 120	100
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	107
	Copper, Cu	mg/kg	0.5	290	290	80 - 120	101
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	100
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	270	273	80 - 120	98
LB205475.002	Arsenic, As	mg/kg	1	310	318.22	80 - 120	98
	Cadmium, Cd	mg/kg	0.3	5.3	5.41	80 - 120	98
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	102
	Copper, Cu	mg/kg	0.5	290	290	80 - 120	99
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	97
	Lead, Pb	mg/kg	1	89	89.9	80 - 120	99
	Zinc, Zn	mg/kg	2	260	273	80 - 120	96
LB205476.002	Arsenic, As	mg/kg	1	310	318.22	80 - 120	97
	Cadmium, Cd	mg/kg	0.3	5.3	5.41	80 - 120	98
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	280	290	80 - 120	98
	Nickel, Ni	mg/kg	0.5	170	187	80 - 120	93
	Lead, Pb	mg/kg	1	89	89.9	80 - 120	99
	Zinc, Zn	mg/kg	2	260	273	80 - 120	95

Trace Metals (Dissolved) in Water by ICPMS

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205414.002	Arsenic, As	µg/L	1	20	20	80 - 120	99
	Cadmium, Cd	µg/L	0.1	20	20	80 - 120	102
	Chromium, Cr	µg/L	1	21	20	80 - 120	105
	Copper, Cu	µg/L	1	22	20	80 - 120	109
	Lead, Pb	µg/L	1	22	20	80 - 120	108
	Nickel, Ni	µg/L	1	20	20	80 - 120	102
	Zinc, Zn	µg/L	5	21	20	80 - 120	104

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205384.002		TRH C10-C14	mg/kg	20	37	40	60 - 140	93
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	75
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	73
	TRH F Bands	TRH >C10-C16	mg/kg	25	35	40	60 - 140	88
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	75
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	65
LB205385.002		TRH C10-C14	mg/kg	20	36	40	60 - 140	90
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	75
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	75
	TRH F Bands	TRH >C10-C16	mg/kg	25	34	40	60 - 140	85
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	75
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	75
LB205386.002		TRH C10-C14	mg/kg	20	37	40	60 - 140	93
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	78
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	75

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 (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205386.002	TRH F Bands	TRH >C10-C16	mg/kg	25	36	40	60 - 140	90
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	75
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	75
LB205387.002		TRH C10-C14	mg/kg	20	40	40	60 - 140	100
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	78
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	75
	TRH F Bands	TRH >C10-C16	mg/kg	25	37	40	60 - 140	93
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	75
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	65

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205439.002		TRH C10-C14	µg/L	50	1100	1200	60 - 140	91
		TRH C15-C28	µg/L	200	1400	1200	60 - 140	113
		TRH C29-C36	µg/L	200	1300	1200	60 - 140	105
	TRH F Bands	TRH >C10-C16	µg/L	60	1200	1200	60 - 140	101
		TRH >C16-C34 (F3)	µg/L	500	1400	1200	60 - 140	116
		TRH >C34-C40 (F4)	µg/L	500	600	600	60 - 140	101

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205380.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	3.8	5	60 - 140	75
		Toluene	mg/kg	0.1	3.9	5	60 - 140	78
		Ethylbenzene	mg/kg	0.1	3.9	5	60 - 140	78
		m/p-xylene	mg/kg	0.2	7.7	10	60 - 140	77
		o-xylene	mg/kg	0.1	3.9	5	60 - 140	77
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	10	70 - 130	94
		d8-toluene (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10	70 - 130	90
LB205381.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	3.8	5	60 - 140	77
		Toluene	mg/kg	0.1	3.8	5	60 - 140	76
		Ethylbenzene	mg/kg	0.1	3.7	5	60 - 140	75
		m/p-xylene	mg/kg	0.2	7.5	10	60 - 140	75
		o-xylene	mg/kg	0.1	3.7	5	60 - 140	74
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	10	70 - 130	84
		d8-toluene (Surrogate)	mg/kg	-	8.6	10	70 - 130	86
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	10	70 - 130	76
LB205382.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	5.0	5	60 - 140	100
		Toluene	mg/kg	0.1	4.7	5	60 - 140	94
		Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	91
		m/p-xylene	mg/kg	0.2	9.3	10	60 - 140	93
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	94
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		d8-toluene (Surrogate)	mg/kg	-	8.8	10	70 - 130	88
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	10	70 - 130	91
LB205383.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	3.2	5	60 - 140	64
		Toluene	mg/kg	0.1	3.3	5	60 - 140	65
		Ethylbenzene	mg/kg	0.1	3.4	5	60 - 140	67
		m/p-xylene	mg/kg	0.2	6.8	10	60 - 140	68
		o-xylene	mg/kg	0.1	3.4	5	60 - 140	68
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.2	10	70 - 130	92
		d8-toluene (Surrogate)	mg/kg	-	9.4	10	70 - 130	94
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	10	70 - 130	84

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205449.002	Monocyclic Aromatic	Benzene	µg/L	0.5	47	45.45	60 - 140	103
		Toluene	µg/L	0.5	48	45.45	60 - 140	105
		Ethylbenzene	µg/L	0.5	49	45.45	60 - 140	107
		m/p-xylene	µg/L	1	98	90.9	60 - 140	108
		o-xylene	µg/L	0.5	49	45.45	60 - 140	107
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140	104

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.

VOCs in Water (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205449.002	Surrogates	d8-toluene (Surrogate)	µg/L	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10	70 - 130	102

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205380.002		TRH C6-C10	mg/kg	25	74	92.5	60 - 140	80
		TRH C6-C9	mg/kg	20	65	80	60 - 140	82
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	10	70 - 130	94
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10	70 - 130	90
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	51	62.5	60 - 140	81
LB205381.002		TRH C6-C10	mg/kg	25	85	92.5	60 - 140	91
		TRH C6-C9	mg/kg	20	75	80	60 - 140	93
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	10	70 - 130	84
		Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	10	70 - 130	76
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	62	62.5	60 - 140	99
LB205382.002		TRH C6-C10	mg/kg	25	79	92.5	60 - 140	86
		TRH C6-C9	mg/kg	20	70	80	60 - 140	88
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	10	70 - 130	91
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	51	62.5	60 - 140	82
LB205383.002		TRH C6-C10	mg/kg	25	79	92.5	60 - 140	85
		TRH C6-C9	mg/kg	20	69	80	60 - 140	87
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.2	10	70 - 130	92
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	10	70 - 130	84
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	59	62.5	60 - 140	94

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB205449.002		TRH C6-C10	µg/L	50	750	946.63	60 - 140	79
		TRH C6-C9	µg/L	40	650	818.71	60 - 140	79
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140	104
		d8-toluene (Surrogate)	µg/L	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10	70 - 130	102
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	460	639.67	60 - 140	72

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 identifer 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(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.065	LB205592.004	Mercury	mg/L	0.0001	0.0069	<0.0001	0.008	86

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.009	LB205485.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	94
SE209178.028	LB205486.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	92
SE209178.047	LB205487.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	98
SE209260.001	LB205484.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	100

OC Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.003	LB205384.023		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	0.2	80
			Aldrin	mg/kg	0.1		<0.1	0.2	80
			Beta BHC	mg/kg	0.1		<0.1	-	-
			Delta BHC	mg/kg	0.1		<0.1	0.2	78
			Heptachlor epoxide	mg/kg	0.1		<0.1	-	-
			o,p'-DDE	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	-	-
			trans-Nonachlor	mg/kg	0.1		<0.1	-	-
			p,p'-DDE	mg/kg	0.1		<0.1	-	-
			Dieldrin	mg/kg	0.2		<0.2	0.2	75
			Endrin	mg/kg	0.2		<0.2	0.2	73
			o,p'-DDD	mg/kg	0.1		<0.1	-	-
			o,p'-DDT	mg/kg	0.1		<0.1	-	-
			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	0.2	65
			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	-	-
			Total CLP OC Pesticides	mg/kg	1		<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-		0.16	-	112
SE209178.017	LB205385.004		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	83
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	81
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	81
			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	77
			Endrin	mg/kg	0.2	<0.2	<0.2	0.2	74
			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	-	-

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.017	LB205385.004		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.1	<0.1	0.2	69
			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	<1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.16	-	114
SE209178.033	LB205386.004		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	0.3	<0.1	0.2	139
			Aldrin	mg/kg	0.1	0.3	<0.1	0.2	138
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.3	<0.1	0.2	134
			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	0.3	<0.2	0.2	138
			Endrin	mg/kg	0.2	0.3	<0.2	0.2	140
			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	0.2	<0.1	0.2	102
			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	2	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	-	104

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.033	LB205386.004		Dichlorvos	mg/kg	0.5	2.1	<0.5	2	105
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Diazinon (Dimpylate)	mg/kg	0.5	2.3	<0.5	2	115
			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	2.3	<0.2	2	116
			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	2.0	<0.2	2	100
			Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	8.7	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR

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 identifer 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%
SE209178.002	LB205384.022		Naphthalene	mg/kg	0.1		<0.1	4	113
			2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			Acenaphthylene	mg/kg	0.1		<0.1	4	116
			Acenaphthene	mg/kg	0.1		<0.1	4	120
			Fluorene	mg/kg	0.1		<0.1	-	-
			Phenanthrene	mg/kg	0.1		<0.1	4	117
			Anthracene	mg/kg	0.1		<0.1	4	112
			Fluoranthene	mg/kg	0.1		<0.1	4	114
			Pyrene	mg/kg	0.1		<0.1	4	119
			Benzo(a)anthracene	mg/kg	0.1		<0.1	-	-
			Chrysene	mg/kg	0.1		<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1		<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1		<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1		<0.1	4	98
			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	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3		<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2		<0.2	-	-
			Total PAH (18)	mg/kg	0.8		<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-		0.4	-	89
			2-fluorobiphenyl (Surrogate)	mg/kg	-		0.4	-	90
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.4	-	84
SE209178.017	LB205385.004		Naphthalene	mg/kg	0.1	4.4	<0.1	4	110
			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	4.5	<0.1	4	113
			Acenaphthene	mg/kg	0.1	4.7	<0.1	4	117
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.5	<0.1	4	113
			Anthracene	mg/kg	0.1	4.3	<0.1	4	108
			Fluoranthene	mg/kg	0.1	4.3	<0.1	4	107
			Pyrene	mg/kg	0.1	4.5	<0.1	4	113
			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	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.6	<0.1	4	115
			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	4.6	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.7	<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.7	<0.2	-	-
			Total PAH (18)	mg/kg	0.8	36	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	82
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	78
SE209178.033	LB205386.004		Naphthalene	mg/kg	0.1	4.2	<0.1	4	105
			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	4.6	<0.1	4	115
			Acenaphthene	mg/kg	0.1	4.9	<0.1	4	122
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.8	<0.1	4	121
			Anthracene	mg/kg	0.1	5.0	<0.1	4	126
			Fluoranthene	mg/kg	0.1	4.6	<0.1	4	116
			Pyrene	mg/kg	0.1	4.9	<0.1	4	122
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-

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 identifer 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%
SE209178.033	LB205386.004		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.6	<0.1	4	115
			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	4.6	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.8	<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.7	<0.2	-	-
			Total PAH (18)	mg/kg	0.8	38	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	-	88
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	88
SE209178.050	LB205387.020		Naphthalene	mg/kg	0.1		<0.1	4	103
			2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			Acenaphthylene	mg/kg	0.1		<0.1	4	108
			Acenaphthene	mg/kg	0.1		<0.1	4	107
			Fluorene	mg/kg	0.1		<0.1	-	-
			Phenanthrene	mg/kg	0.1		<0.1	4	106
			Anthracene	mg/kg	0.1		<0.1	4	106
			Fluoranthene	mg/kg	0.1		<0.1	4	96
			Pyrene	mg/kg	0.1		<0.1	4	108
			Benzo(a)anthracene	mg/kg	0.1		<0.1	-	-
			Chrysene	mg/kg	0.1		<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1		<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1		<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1		<0.1	4	109
			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	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3		<0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2		<0.2	-	-
			Total PAH (18)	mg/kg	0.8		<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-		0.4	-	88
			2-fluorobiphenyl (Surrogate)	mg/kg	-		0.4	-	87
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.5	-	89

PCBs in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.003	LB205384.023		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	0.4	80
			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)	mg/kg	-		0	-	100
SE209178.017	LB205385.004		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	0.3	<0.2	0.4	87
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.017	LB205385.004		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	-	103
SE209178.033	LB205386.004		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	101
			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	-	104

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%
SE209178.009	LB205474.004	Arsenic, As	mg/kg	1	46	4	50	84
		Cadmium, Cd	mg/kg	0.3	40	<0.3	50	80
		Chromium, Cr	mg/kg	0.5	55	9.0	50	91
		Copper, Cu	mg/kg	0.5	54	8.5	50	91
		Nickel, Ni	mg/kg	0.5	49	3.3	50	91
		Lead, Pb	mg/kg	1	52	8	50	88
		Zinc, Zn	mg/kg	2	55	10	50	90
SE209178.028	LB205475.004	Arsenic, As	mg/kg	1	45	5	50	79
		Cadmium, Cd	mg/kg	0.3	37	<0.3	50	74
		Chromium, Cr	mg/kg	0.5	51	9.2	50	84
		Copper, Cu	mg/kg	0.5	54	13	50	82
		Nickel, Ni	mg/kg	0.5	46	4.4	50	83
		Lead, Pb	mg/kg	1	55	12	50	85
		Zinc, Zn	mg/kg	2	60	21	50	77
SE209178.047	LB205476.004	Arsenic, As	mg/kg	1	46	8	50	76
		Cadmium, Cd	mg/kg	0.3	38	<0.3	50	76
		Chromium, Cr	mg/kg	0.5	54	14	50	82
		Copper, Cu	mg/kg	0.5	53	14	50	79
		Nickel, Ni	mg/kg	0.5	46	4.7	50	83
		Lead, Pb	mg/kg	1	50	9	50	82
		Zinc, Zn	mg/kg	2	52	14	50	77
SE209260.001	LB205473.004	Arsenic, As	mg/kg	1	45	2	50	87
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	81
		Chromium, Cr	mg/kg	0.5	52	6.1	50	92
		Copper, Cu	mg/kg	0.5	47	1.9	50	90
		Nickel, Ni	mg/kg	0.5	49	3.0	50	92
		Lead, Pb	mg/kg	1	52	8	50	88
		Zinc, Zn	mg/kg	2	58	20	50	77

Trace Metals (Dissolved) in Water by ICPMS

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209110.001	LB205414.004	Arsenic, As	µg/L	1	24	<1	20	117
		Cadmium, Cd	µg/L	0.1	22	<0.1	20	112
		Chromium, Cr	µg/L	1	23	1	20	108
		Copper, Cu	µg/L	1	31	5	20	130
		Lead, Pb	µg/L	1	24	<1	20	116
		Nickel, Ni	µg/L	1	25	4	20	105
		Zinc, Zn	µg/L	5	150	120	20	111

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.002	LB205384.022	TRH C10-C14	mg/kg	20		<20	40	108
		TRH C15-C28	mg/kg	45		<45	40	88
		TRH C29-C36	mg/kg	45		<45	40	78
		TRH C37-C40	mg/kg	100		<100	-	-

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 identifer 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]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.002	LB205384.022		TRH C10-C36 Total	mg/kg	110		<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210		<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25		<25	40	105
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90		<90	40	83
			TRH >C34-C40 (F4)	mg/kg	120		<120	-	-
SE209178.017	LB205385.004		TRH C10-C14	mg/kg	20	38	<20	40	95
			TRH C15-C28	mg/kg	45	<45	<45	40	78
			TRH C29-C36	mg/kg	45	<45	<45	40	65
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	36	<25	40	90
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	36	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	70
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE209178.033	LB205386.004		TRH C10-C14	mg/kg	20	43	<20	40	108
			TRH C15-C28	mg/kg	45	<45	<45	40	90
			TRH C29-C36	mg/kg	45	<45	<45	40	75
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	41	<25	40	103
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	41	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	83
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE209178.050	LB205387.020		TRH C10-C14	mg/kg	20		<20	40	108
			TRH C15-C28	mg/kg	45		<45	40	80
			TRH C29-C36	mg/kg	45		<45	40	60
			TRH C37-C40	mg/kg	100		<100	-	-
			TRH C10-C36 Total	mg/kg	110		<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210		<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25		<25	40	98
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90		<90	40	70
			TRH >C34-C40 (F4)	mg/kg	120		<120	-	-

VOC's in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.001	LB205380.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	3.2	<0.1	5	64
			Toluene	mg/kg	0.1	3.5	<0.1	5	69
			Ethylbenzene	mg/kg	0.1	3.5	<0.1	5	70
			m/p-xylene	mg/kg	0.2	7.0	<0.2	10	70
			o-xylene	mg/kg	0.1	3.5	<0.1	5	70
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	8.1	10	97
			d8-toluene (Surrogate)	mg/kg	-	8.8	7.9	10	88
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	8.5	10	88
		Totals	Total Xylenes	mg/kg	0.3	11	<0.3	-	-
			Total BTEX	mg/kg	0.6	21	<0.6	-	-
SE209178.017	LB205381.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	3.1	<0.1	5	62
			Toluene	mg/kg	0.1	3.1	<0.1	5	63
			Ethylbenzene	mg/kg	0.1	3.2	<0.1	5	64
			m/p-xylene	mg/kg	0.2	6.6	<0.2	10	66
			o-xylene	mg/kg	0.1	3.3	<0.1	5	65
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	9.3	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.9	9.3	10	89
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	8.2	10	77
		Totals	Total Xylenes	mg/kg	0.3	9.8	<0.3	-	-
			Total BTEX	mg/kg	0.6	19	<0.6	-	-

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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.033	LB205382.004	Monocyclic	Benzene	mg/kg	0.1	4.9	<0.1	5	97
		Aromatic	Toluene	mg/kg	0.1	4.4	<0.1	5	89
			Ethylbenzene	mg/kg	0.1	4.3	<0.1	5	87
			m/p-xylene	mg/kg	0.2	9.0	<0.2	10	90
			o-xylene	mg/kg	0.1	4.5	<0.1	5	90
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	8.2	10	93
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8	10	84
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	9.0	10	93
		Totals	Total Xylenes	mg/kg	0.3	13	<0.3	-	-
			Total BTEX	mg/kg	0.6	27	<0.6	-	-
SE209178.049	LB205383.004	Monocyclic	Benzene	mg/kg	0.1	3.1	<0.1	5	62
		Aromatic	Toluene	mg/kg	0.1	3.3	<0.1	5	66
			Ethylbenzene	mg/kg	0.1	3.5	<0.1	5	70
			m/p-xylene	mg/kg	0.2	7.1	<0.2	10	71
			o-xylene	mg/kg	0.1	3.6	<0.1	5	72
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.4	10	89
			d8-toluene (Surrogate)	mg/kg	-	9.3	8.5	10	93
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	7.1	10	84
		Totals	Total Xylenes	mg/kg	0.3	11	<0.3	-	-
			Total BTEX	mg/kg	0.6	21	<0.6	-	-

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209279.018	LB205449.022	Monocyclic	Benzene	µg/L	0.5	48	0	45.45	106
		Aromatic	Toluene	µg/L	0.5	48	0.09494166117	45.45	105
			Ethylbenzene	µg/L	0.5	49	0.02687003766	45.45	108
			m/p-xylene	µg/L	1	98	0.07780419610	90.9	108
			o-xylene	µg/L	0.5	49	0.03016305974	45.45	107
		Polycyclic	Naphthalene	µg/L	0.5	50	0.08979133953	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.2	10.11341577757	-	102
			d8-toluene (Surrogate)	µg/L	-	10.2	10.01817572823	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	9.9	10.14690831486	-	99

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.001	LB205380.004		TRH C6-C10	mg/kg	25	66	<25	92.5	71
			TRH C6-C9	mg/kg	20	59	<20	80	73
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	8.1	10	97
			d8-toluene (Surrogate)	mg/kg	-	8.8	7.9	10	88
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	8.5	-	88
		VPH F	Benzene (F0)	mg/kg	0.1	3.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	45	<25	62.5	72
SE209178.017	LB205381.004		TRH C6-C10	mg/kg	25	79	<25	92.5	85
			TRH C6-C9	mg/kg	20	71	<20	80	88
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	9.3	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.9	9.3	10	89
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	8.2	-	77
		VPH F	Benzene (F0)	mg/kg	0.1	3.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	60	<25	62.5	95
SE209178.033	LB205382.004		TRH C6-C10	mg/kg	25	75	<25	92.5	81
			TRH C6-C9	mg/kg	20	66	<20	80	83
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	8.2	10	93
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8	10	84
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	9.0	-	93
		VPH F	Benzene (F0)	mg/kg	0.1	4.9	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	48	<25	62.5	76
SE209178.049	LB205383.004		TRH C6-C10	mg/kg	25	78	<25	92.5	85
			TRH C6-C9	mg/kg	20	69	<20	80	87
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.4	10	89
			d8-toluene (Surrogate)	mg/kg	-	9.3	8.5	10	93

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 identifer 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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209178.049	LB205383.004	Surrogates	Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	7.1	-	84
		VPH F	Benzene (F0)	mg/kg	0.1	3.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	58	<25	62.5	92

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE209279.018	LB205449.022		TRH C6-C10	µg/L	50	750	3.01109932586	946.63	78
			TRH C6-C9	µg/L	40	650	0	818.71	79
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.2	10.11341577757	-	102
			d8-toluene (Surrogate)	µg/L	-	10.2	10.01817572823	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	9.9	10.14690831486	-	99
		VPH F	Benzene (F0)	µg/L	0.5	48	0	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	450	3.01109932586	639.67	71

MATRIX SPIKE DUPLICATES

SE209178 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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.
-	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

SE209178A R0

CLIENT DETAILS

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Facsimile	(Not specified)
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Project	**E24744 164-170 Croatia Avenue Edmondson**
Order Number	**E24744**
Samples	65

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE209178A R0**
Date Received	17 Aug 2020
Date Reported	20 Aug 2020

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 Soil
Date documentation received	17/8/2020@4:19pm	Type of documentation received	Email
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	5.7°C	Sufficient sample for analysis	Yes
Turnaround time requested	Three Days		

HOLDING TIME SUMMARY

SE209178A R0

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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Metals in TCLP Extract by ICPOES

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH15_1.5-1.6	SE209178A.025	LB207116	24 Jul 2020	17 Aug 2020	20 Jan 2021	20 Aug 2020	20 Jan 2021	20 Aug 2020

TCLP (Toxicity Characteristic Leaching Procedure) for Metals

Method: ME-(AU)-[ENV]AN006

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH15_1.5-1.6	SE209178A.025	LB207009	24 Jul 2020	17 Aug 2020	20 Jan 2021	19 Aug 2020	20 Jan 2021	20 Aug 2020

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 identifer 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.

Metals in TCLP Extract by ICPOES — **Method: ME-(AU)-[ENV]AN320**

Sample Number	Parameter	Units	LOR	Result
LB207116.001	Lead, Pb	mg/L	0.02	<0.02

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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.

Metals in TCLP Extract by ICPOES — **Method: ME-(AU)-[ENV]AN320**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB207116.002	Lead, Pb	mg/L	0.02	0.48	0.5	80 - 120	96

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 identifer 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

SE209178A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / 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 x SDL / Mean + 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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

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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).
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