Remedial Action Plan

Project

Proposed Residential Subdivision 290-308 Aldington Road and 59-63 Abbotts Road Kemps Creek NSW

Prepared for

ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1

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10/02/2022

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Report 13546-ER-2-2 dated 10 February 2022 reviewed for and on behalf of Alliance Geotechnical Pty Ltd





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The findings presented in this report are based on specific data and information made available during the course of this project. To the best of Alliance's knowledge, these findings represent a reasonable interpretation of the general condition of the site at the time of report completion.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance.

Logs, figures, and drawings are generated for this report based on individual Alliance consultant interpretations of nominated data, as well as observations made at the time fieldwork was undertaken.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, Alliance reserves the right to review and amend this report.

Executive Summary

Alliance Geotechnical Pty Ltd (Alliance) was engaged by ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1 to prepare a remedial action plan (RAP) for 290-308 Aldington Road and 59-63 Abbotts Road Kemps Creek NSW (refer **Figure 1**, with the 'site' boundaries outlined in **Figure 2**).

At the commencement of the project, Alliance had the following project appreciation:

- The site is currently owned by three separate private owners one per lot.
- Each lot is currently occupied and being used for rural residential purposes.
- The site is proposed for redevelopment, including demolition of current onsite structures and dewatering/removal of onsite dams, and a subdivision consisting of seven industrial warehouses with associated awnings and ground level carparks, as well as a detention basin in the south western of the site, with an arterial roadway separating the structures. It is understood that the majority of the site will be covered by structures & hardstand materials, with very limited landscaping and open space areas. In the context of NEPC (2013a), this is considered to be a land use scenario¹ comprising:
 - Commercial / industrial such as shops, offices, factories, and industrial sites.
- The proposed redevelopment of the site has been identified as state significant development (SSD), and that development consent is being sought from NSW Department of Planning (rather than Penrith City Council as was Alliance's understanding at the time the Services Agreement was executed);
- A preliminary site investigation (PSI) for 59-63 Abbotts Road was reported by Douglas Partners (2019).
 The PSI identified a number of potential land contamination risks at the site, and further assessment of those risks was recommended.
- A due diligence PSI with limited sampling for 290-308 Aldington Road was reported in Alliance (2019).
 The PSI concluded that the site was deemed unlikely to pose a significant contamination risk for future development.
- A detailed site investigation (DSI) of the site was reported in Alliance (2021). The DSI identified a
 number of unacceptable land contamination risks at the site, which require management and/or
 remediation, in order for the site to be suitable for the proposed land use scenario; and
- This RAP is required to assist the client to address:
- the identified unacceptable land contamination risks in Alliance (2021); and
- development consent decision making processes set out in State Environmental Planning Policy (SEPP) No. 55 and the NSW Department of Planning.
- The client's preference at the completion of the remedial works set out in the RAP, is to not have a:

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¹ Adopted from Section 2.2 of NEPC (2013a) and Section 3 of NEPC (2013f)

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- · a covenant registered on the land title;
- a notation on a planning certificate for the site; or
- an environmental management plan (EMP) for the site.

The objective of this project was to prepare a remedial action plan (RAP) for the site that contains:

- a remediation objective for the site to facilitate making the site suitable for the proposed land use scenario; and
- a strategy to address identified data gaps in the characterisation of relevant land contamination risks at the site; and
- a remediation methodology that addresses the identified unacceptable land contamination risks at the site.

The following scope of works was undertaken address the project objectives:

- · A desktop review of previous reports;
- · A data gap analysis; and
- · Data assessment and reporting.

The nominated scope of works was undertaken with reference to relevant sections of NEPC (2013), NSW EPA (2020b), and WA DOH (2009).

The remediation objective is to remediate identified land contamination exposure risks to levels that do not present an unacceptable human health or ecological exposure risk, based on the proposed land use scenario for the site.

A preliminary conceptual inferred extent of remedial works that may be required to address the remedial objective (subject to the results of supplementary contamination assessment works), is set out in the table below.

ID	AEC	Contamination Risk	Indicative Volume	Assumptions
AEC01a	Soil within vicinity of TP09	Bonded asbestos	50m ³	50m², nominal depth of 1m
AEC09b	Dam 5 Sediments (Lot 12 north)	Bonded asbestos	30m ³	300m², nominal thickness of 0.1m
AEC14	Gully between northern dams in Lot 12	Friable and bonded asbestos	250m ³	500m², nominal thickness of 0.5m
AEC18	Construction material storage area, including metal sheeting, piping and lumber (North-west corner Lot 11)	Bonded asbestos	500m ³	1,000m², nominal thickness of 0.5m
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam)	Bonded asbestos	40m ³	40m ² , nominal thickness of 1.0m
AEC24	Area surrounding aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (Lot 11 north-west of residence)	Friable asbestos	20m ³	20m ² , nominal thickness of 1.0m

It is noted that these inferred extents are based on a limited set of data that does not include soils underlying these AECs, and so plausible unacceptable contamination has been assumed. One or more of the extents may be subject to change, as a result of:

- · Latent subsurface conditions;
- Temporal or seasonal fluctuations (particularly water content in dams / creeks / streams / ponds); and
- Supplementary contamination assessment works (as proposed in Section 8.3 of this RAP).

It is also noted that the results of the supplementary assessment may also require a change to the preferred management / remediation strategy, or even potentially remove the need for management / remediation. Should the inferred extents, preferred strategy or need for management / remediation change, based on supplementary assessment works, these changes would be presented in either an addendum to this RAP, or in the site remediation and validation report (SRVR) prepared at the completion of the site remedial works.

Based on the Alliance's understanding of the potential inferred extent of unacceptable land contamination risks to be addressed during the supplementary assessment, the proposed land use scenario for the site, and the client's preferred remedial outcomes for the site, and the results of the potential options assessment presented in **Section 10.2**, the conceptual preferred remedial options for the site are presented in the table below.

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AEC	Potential Contamination Risk	Conceptual Remedial Option and Method
AEC01a, AEC09b, AEC18, & AEC19a	Bonded ACM in fill soils >0.1m below surface	Onsite treatment to remove ACM
AEC14 & AEC24	Asbestos fines in surface and fill soils	Excavate soils and offsite disposal
AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33 & AEC34	Potential chemical contamination	Excavate soils and offsite disposal

It is also noted that the results of the supplementary assessment may also require a change to the preferred remedial options. Should this scenario arise, that change would be presented in either an addendum to this RAP, or in the site remediation and validation report (SRVR) prepared at the completion of the site remedial works.

Based on the assessment undertaken by Alliance of site history information, fieldwork observations and data, and laboratory analytical data, in the context of the proposed land use scenario and objectives of this project, Alliance considers that the remediation objective can be achieved and the site made suitable for the proposed land use scenario, subject to the:

- Implementation of the strategies, methodologies, plans and procedures set out in this remediation action plan, including those set out in the proposed supplementary contamination assessment works; and
- Preparation of a site remediation and validation report.

Specific assumptions that apply to the adopted land use scenario, are presented in Section 6 of this report.

This report must be read in conjunction with the *Important Information About This Report* statements at the front of this report.

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APPENDICES

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1 Introduction

1.1 Background

Alliance Geotechnical Pty Ltd (Alliance) was engaged by ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1 to prepare a remedial action plan (RAP) for 290-308 Aldington Road and 59-63 Abbotts Road Kemps Creek NSW (refer **Figure 1**, with the 'site' boundaries outlined in **Figure 2**).

At the commencement of the project, Alliance had the following project appreciation:

- The site is currently owned by three separate private owners one per lot.
- Each lot is currently occupied and being used for rural residential purposes.
- The site is proposed for redevelopment, including demolition of current onsite structures and dewatering/removal of onsite dams, and a subdivision consisting of seven industrial warehouses with associated awnings and ground level carparks, as well as a detention basin in the south western of the site, with an arterial roadway separating the structures. It is understood that the majority of the site will be covered by structures & hardstand materials, with very limited landscaping and open space areas. In the context of NEPC (2013a), this is considered to be a land use scenario² comprising:
 - o Commercial / industrial such as shops, offices, factories, and industrial sites.
- The proposed redevelopment of the site has been identified as state significant development (SSD), and that development consent is being sought from NSW Department of Planning (rather than Penrith City Council as was Alliance's understanding at the time the client's Services Agreement was executed);
- A preliminary site investigation (PSI) for 59-63 Abbotts Road was reported in Douglas Partners (2019).
 The PSI identified a number of potential land contamination risks at the site, and further assessment of those risks was recommended.
- A due diligence PSI with limited sampling for 290-308 Aldington Road was reported in Alliance (2019).
 The PSI concluded that the site was deemed unlikely to pose a significant contamination risk for future development.
- A detailed site investigation (DSI) of the site was reported in Alliance (2021b). The DSI identified a
 number of data gaps, which require assessment, and unacceptable land contamination risks at the
 site, which require management and/or remediation, in order for the site to be suitable for the proposed
 land use scenario; and

² Adopted from Section 2.2 of NEPC (2013a) and Section 3 of NEPC (2013f)

- This RAP is required to assist the client to address:
 - o the identified unacceptable land contamination risks in Alliance (2021); and
 - development consent decision making processes set out in State Environmental Planning Policy (SEPP) No. 55 and the NSW Department of Planning.
 - The client's preference at the completion of the remedial works set out in the RAP, is to not have a:
 - a covenant registered on the land title;
 - a notation on a planning certificate for the site; or
 - an environmental management plan (EMP) for the site.

1.2 Objectives

The objective of this project was to prepare a remedial action plan (RAP) for the site that contains:

- a remediation objective for the site to facilitate making the site suitable for the proposed land use scenario;
- a methodology for supplementary contamination assessment (SCA) works to address the identified data gaps
- a remediation and validation strategy that addresses the identified unacceptable land contamination risks at the site; and
- a conceptual remediation and validation strategy to address unacceptable land contamination risks at the site that could reasonably be identified during SCA works.

1.3 Scope of Work

The following scope of works was undertaken address the project objectives:

- A desktop review of previous reports;
- A data gap analysis; and
- · Data assessment and reporting.

The nominated scope of works was undertaken with reference to relevant sections of NEPC (2013), NSW EPA (2020b) and WA DOH (2009).

2 Site Identification

2.1 Site Details

Site identification details are presented in Table 2.1.

Table 2.1 Site Identification Details

Cadastral Identification	Lots 11, 12, & 13 in DP253503	
Geographic Coordinates (Google Earth)	33.857311, 150.799091	
Site Area	Approximately 32 ha	
Local Government Authority	Penrith City Council	
Current Zoning	IN1: General Industrial	

2.2 Site Layout

The layout of the site is present in **Figure 2**. The layout plan also includes locations on site of:

- Site access points;
- Current residential buildings and site features, e.g. dams; and
- Existing lot boundaries and site boundaries.

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3 Site Environmental Setting

3.1 Geology

The Department of Minerals and Energy Geological Survey of NSW Penrith 1:100,000 Geological Series Sheet 9030 (Edition 1) 1991, indicated that the site is likely to be underlain by Bringelly Shale, comprising shale, carbonaceous claystone, laminate, fine to medium grained lithic sandstone, rare coal and tuff.

3.2 Site Topography and Elevation

A detail and level survey plan of the site indicated that:

- the topography of the site is undulating with a significant overall east to west slope; and
- the surface of the site ranges in elevation from approximately 15m Australian Height Datum (AHD) in the west and 60m AHD in the east.

3.3 Acid Sulfate Soils

A review of https://www.environment.nsw.gov.au/eSpade2Webapp indicated that the site Is located in an area mapped as:

N: no known occurrence

Further assessment of acid sulfate soils, in the context of this project is considered not warranted.

3.4 Hydrogeology and Hydrology

A review of Nearmap, indicated that surface water bodies located on or near the site included:

Kemps Creek, located approximately 800 m to the south-west of the site.

Based on the location of the identified surface water bodies and the site surface topography, the inferred groundwater flow direction at the site is considered likely to be towards the west.

Based on site surface topography and site elevation, the inferred surface water flow direction at the site is considered likely to be towards the west.

A search of https://www.environment.nsw.gov.au/eSpade2WebApp was undertaken by Alliance and information considered relevant and related to the hydrogeological landscape for the locality of the site is presented in **Table 3.4**.

Table 3.4 Site Locality Hydrogeological Landscape

Aquifer Types	Unconfined in unconsolidated alluvial sediments Unconfined to semi-confined in fractured rock along structures Vertical and lateral flow components Local perching above clay-rich layers (seasonal)
Hydraulic Conductivity	Moderate Range: 10 ⁻² m – 10m per day

Aquifer Transmissivity	Low to moderate Range: <2-20 ⁻² m per day
Specific Yield	Moderate Range: 5-15%
Hydraulic Gradient	Gentle to intermediate Range: <10–30%
Groundwater Salinity	Marginal Range: 0.8–1.6 dS/m
Depth to Water Table	Intermediate Range: 2 – 6 m

A search of https://realtimedata.waternsw.com.au/water.stm reported in Alliance (2021b) indicated that there are no registered groundwater features located within a 500m radius of the site.

4 Previous Contamination Assessments and Results

A copy of:

- Douglas Partners 2019, 'Preliminary Environmental Site Investigation with Limited Intrusive Investigation, 59 – 63 Abbotts Road, Kemps Creek, NSW' dated 08 August 2019, ref: 92352.00.
- Alliance Geotechnical 2019, 'Stage 1 Preliminary Site Investigation (with Limited Sampling), 290-308
 Aldington Road, Kemps Creek NSW' dated 18 October 2019, ref: 9687-ER-1-1.
- Alliance 2021a, 'Hazardous Building Materials (HAZMAT) Report, 290-308 Aldington Road, 59 63
 Abbotts Road, Kemps Creek, NSW', ref: 13546-ER-1-1 Rev 1.
- Alliance 2021b, 'Detailed Site Investigation, 290-308 Aldington Road, Kemps Creek NSW' dated 17 December 2021, ref: 13546-ER-2-1.

was provided to Alliance for review.

4.1.1 Douglas Partners (2019)

The objectives of Douglas Partners (2019) were to:

- Review available current and historical site information to identify key past or present potential contaminating activities: and
- To provide a preliminary assessment of the contamination status of the site with respect to the proposed development.

The scope of work undertaken to address the project objective included:

- Review of local topographic, soil, geological, salinity and acid sulfate soils mapping;
- Search of the NSW EPA Land Information records for any statutory notices or licences current on any parts of the site or nearby surrounds under the Contaminated Land Management Act 1997 and the Protection of the Environment Operations Act 1997 of relevance to the site;
- Search for groundwater bores on or adjacent to the site registered with the NSW Office of Water;
- Review of historical aerial photographs and Nearmap aerial imagery to identify past/present land uses and potential areas of environmental concern (PAEC);
- Review of current title deeds;
- Review of available council records;
- Undertake a site walkover and mapping of PAEC;
- Sampling of 21 test pits targeting PAEC and the general site area. Two surface samples adjacent to
 power poles were also collected, using hand tools. Two bore holes were also completed as part of
 the geotechnical investigation and reported under separate cover. Select soil samples were analyses
 for a range of potential contaminants and assessed against relevant NEPC (2013) guideline values;
- Preparation of a preliminary conceptual site model (CSM); and

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 Preparation of a PSI report outlining the methodology and findings of the investigation, and an assessment of potential contamination at the site.

Based on the observations made during the site walkover and information obtained during the interviews, Douglas Partners (2019) made the following conclusions and recommendations:

- Localised filling impacted with metals and asbestos was recorded in the western portion of Lot 11
 and filling impacted with asbestos in a gully on Lot 12 which will require further investigation and/or
 remediation prior to bulk earthworks. Notwithstanding the observed localised impact, based on the
 findings of this PSI, DP concludes that the potential for the presence of significant contamination
 constraints at the site with respect to the proposed industrial subdivision is considered to be
 generally low.
- DP recommends that an intrusive investigation in the form of a Detailed Site Investigation (DSI)
 including delineation of metal and asbestos impact observed in this investigation is undertaken prior
 to bulk earthworks to ascertain whether or not each identified PAEC require further management
 and/or remediation prior to commencement of the development.
- A hazardous building materials survey should be conducted for structures at the site prior to
 demolition. Demolition of structures containing hazardous building materials should be carried out by
 a licenced asbestos removal contractor (if required). After removal of existing structures, an
 inspection of the footprint should be conducted and (if considered to be required based on
 inspection) targeted soil sampling and analysis conducted to confirm the contamination status of the
 footprint.
- Inert materials observed during the walkover associated with fly tipping are assumed to be surficial
 and therefore can be removed by earthworks contractors prior to the commencement of bulk
 earthworks.
- A Remediation Action Plan (RAP) should be prepared by a suitably qualified environmental
 consultant to document how remediation and validation works will be carried out. If remediation is
 required, subsequent remediation and validation of any identified contamination (if any) should be
 carried out with reference to the RAP and the findings documented in a Validation Report. It is
 considered that the site could be rendered suitable for the proposed industrial subdivision, subject to
 further investigation and remediation, as required.

4.1.2 Alliance Geotechnical (2019)

The objectives of Alliance Geotechnical (2019) were to:

- Assess the potential for contamination to be present on the site as a result of past and current land use activities;
- Provide advice on whether the site would be suitable (in the context of land contamination) for the proposed land use setting;
- Provide advice on salinity hazards and risks for the site; and
- Provide recommendations for further investigation, management and/or remediation (if warranted).

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The scope of works undertaken to address the investigation objectives, included:

- A desktop review of relevant information pertaining to the site;
- A site walkover to understand current site conditions;
- The preparation of a sampling and analysis quality plan (SAQP);
- Conduct a targeted intrusive site investigation to establish ground conditions and to facilitate the collection of representative soil samples;
- · Laboratory analysis of selected samples collected during the field investigation; and
- An assessment of the contamination status of the site and the recommendation of any further remedial requirements associated with the redevelopment of the site (if necessary).

Based on Alliance's assessment of the desktop review information, fieldwork data and laboratory analytical data, in the context of the proposed redevelopment scenario, Alliance made the following conclusions:

- The detected concentrations of identified contaminants of potential concern in the soils assessed are considered unlikely to present an unacceptable human health or ecological risk;
- The detected concentrations of nutrients in the soils assessed are considered to be similarly low across the site;
- Soils assessed onsite (up to a depth of 1.0m below ground surface) are considered to be:
 - o non-saline to very saline;
 - non-aggressive to concrete piles;
 - non-aggressive to steel piles; and
 - o non-sodic to sodic.
- The soil materials were considered suitable for the proposed land use setting; and
- The site was deemed unlikely to pose a significant contamination risk to for future development.

Based on the above conclusions, Alliance made the following recommendations:

• The soil materials are considered suitable for the proposed land use (in the context of contamination), no further investigation, management and/or remediation is deemed warranted.

A copy of the sampling point layout plan, logs, and laboratory summary tables from Alliance Geotechnical (2019), is presented in Appendix E.

4.1.3 Alliance Geotechnical (2021a)

The objectives of Alliance (2021) were to:

- Identify hazardous building materials within the accessible areas of the structures(s);
- Detail the survey methodology;
- Provide a qualitative risk assessment of the identified hazardous materials an provide information regarding health risks;
- Provide recommendations for control measures and management strategies;
- Prepare a hazardous materials register for the site to ensure legislative compliance;
- Outline the responsible persons and details those persons responsibilities in relation to managing on site asbestos containing materials (ACM)
- Detail the principles of hazardous materials management;
- Detail the management strategies for in-situ asbestos and other hazardous materials;
- Provide information about safe working practices for work involving asbestos and other hazardous materials;
- · Detail the requirements for removal of ACM
- Provide a template for emergency response procedures; and
- Outline asbestos training and awareness.

The scope of works undertaken to address the investigation objectives, included:

- Development of a task specific safe work method Statement (SMMS);
- Walkthrough inspection of the site building(s);
- Risk assessment and identification of all visible and accessible hazardous materials including asbestos, lead, ODS, and SMF;
- Sampling and laboratory analysis of suspect materials where necessary/possible;
- Preparation of a hazardous materials register and management plan in accordance with all relevant legislatures.

Summary of Assessment

Location: 59-62 Abbotts Rd (Lot 12)

- 1 x Residential Dwelling, 3 x Sheds, 1 x Swimming Pool (External inspections conducted to occupied structures)
 - Asbestos Containing Materials (ACM)
 - o At the time of inspection, ACM was identified within externally accessible building areas.
 - Lead Based Paint (LBP)
 - o At the time of inspection, No LBP was identified within accessible building areas.
 - Lead Containing Dust (LCD)
 - o At the time of inspection, No LCD was identified within accessible building areas.
 - Polychlorinated Biphenyls (PCBs)
 - o At the time of inspection, fluorescent light fittings were observed which may contain PCBs.
 - Synthetic Mineral Fibres (SMF)

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- o At the time of inspection, SMF was identified within externally accessible building areas.
- Ozone Depleting Substances (ODSs)
 - o At the time of inspection, No ODS were identified within accessible building areas.
- Hazardous Chemicals
- At the time of the inspection, hazardous chemicals were identified within accessible building areas.

Location: 63 Abbotts Road (Lot 11)

1 x Residential Dwelling, 4 x Sheds (External inspections conducted to occupied structures)

- Asbestos Containing Materials (ACM)
 - o At the time of inspection, ACM was identified within externally accessible building areas.
- Lead Based Paint (LBP)
 - o At the time of inspection, No LBP was identified within accessible building areas.
- Lead Containing Dust (LCD)
 - o At the time of inspection, No LCD was identified within accessible building areas.
- Polychlorinated Biphenyls (PCBs)
 - o At the time of inspection, No PCB was identified within accessible building areas.
- Synthetic Mineral Fibres (SMF)
 - o At the time of inspection, SMF was identified within externally accessible building areas.
- Ozone Depleting Substances (ODSs)
 - o At the time of inspection, No ODS was identified within accessible building areas.

Location: 290-308 Aldington Road (Lot 13)

2 x Residential Dwelling, 5 x Sheds, 4 GHG Structures (External inspections conducted to occupied structures)

- Asbestos Containing Materials (ACM)
 - o At the time of inspection, ACM was identified within accessible building areas.
- Lead Based Paint (LBP)
 - o At the time of inspection, LBP was identified within accessible building areas.
- Lead Containing Dust (LCD)
 - o At the time of inspection, No LCD was identified within accessible building areas.
- Polychlorinated Biphenyls (PCBs)
 - At the time of inspection, fluorescent light fittings were observed which may contain PCBs.
- Synthetic Mineral Fibres (SMF)
 - o At the time of inspection, SMF was identified within accessible building areas.
- Ozone Depleting Substances (ODSs)
 - o At the time of inspection, No ODS were identified within accessible building areas.

Summary of Assessment

Due to the public health rules and guidelines in place at the time this survey was undertaken, which did not allow access into resident occupied buildings and structures, a general assumption of the location of possible incidents of hazardous building materials was made.

These assumptions were made based on but not limited to the following:

- · Age of building/structure
- Incidences of hazardous materials on the external structure implies potential incidences on the internal structure

The general assumption of the location of hazardous materials within the internal structure of the buildings are:

- 4 x residential dwellings
- Asbestos wall linings to wet areas (bathrooms, toilets, kitchens, laundry rooms, sauna rooms), floor tiles, ceilings, storerooms
- Lead based paint paint system to walls (where flaking mostly)
- Lead contained dust roof/ceiling voids, underground voids etc
- PCBs light fittings throughout building
- SMF roof insulation, wall lining insulations, pipe insulations etc.

4.1.4 Alliance Geotechnical (2021b)

The objectives of Alliance (2021b) were to:

- Assess the potential for land contamination to be present in the areas of environmental concern (AEC) identified in the preliminary site investigations prepared for the site;
- Assess whether identified potential land contamination would present an unacceptable human health or ecological exposure risk, based on the proposed land use scenario;
- Assess whether the site is suitable, in the context of land contamination, for the proposed land use scenario;
- Make a preliminary assessment of concentrations of contaminants (considered to be relevant to the site) to be present within the dam water and sediments (for the purpose of informing dam decommissioning procedures to be prepared by others); and
- Provide recommendations for further investigations, and management or remediation of land contamination (if warranted).

The following scope of works was undertaken address the project objectives:

- A desktop review of previous reports;
- Preparation of a sampling and analysis quality plan;
- Intrusive investigations on site;
- · Laboratory analysis; and
- Assessment of data and reporting.

Multiple areas of environmental concern (AEC) and contaminants of potential concern (COPC) associated with potential land contaminating activities undertaken at the site, have been identified as part of this project. The AEC, land contaminating activity and COPC are presented in the **Table 4.1.4** below.

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC01a	Western poultry farming area, 3 sheds (~1.2 hectares, ~0.5m in depth)	Poultry waste, hazardous buildings materials, shallow uncontrolled filling, termite and poultry parasite pesticides	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, pathogens, metals, & asbestos.
AEC01b	Eastern poultry farming area, 1 shed on fill pad (~4,500m², ~3.0m to ~0.5m in depth)	Poultry waste, hazardous buildings materials, uncontrolled filling, termite and poultry parasite pesticides	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, pathogens, metals, & asbestos.
AEC02	Aboveground fuel storage tank labelled as liquid petroleum gas (Lot 13 between poultry sheds, ~5,000L)	Fuel spills/leaks	Petroleum hydrocarbons, BTEX, PAH, lead
AEC03a	Dam 1 Wall (Lot 13 west, ~50m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC03b	Dam 1 Sediments (Lot 13 west, ~180m², ~0.1m in thickness)	Poultry shed wastes	Organochlorine pesticides, metals, & asbestos, pathogens
AEC03c	Dam 1 Surface Water (Lot 13 west, ~180m², ~0.5m in depth)	Effluent from poultry sheds.	Pesticides, pathogens, nutrients, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC04a	Dam 2 Wall (Lot 13 north, ~150m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC04b	Dam 2 Sediments (Lot 13 north, ~900m², ~0.1m in thickness)	Waste disposal, poultry shed wastes.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC04c	Dam 2 Surface Water (Lot 13 north, ~900m², ~1.5m in depth)	Waste disposal and effluent from poultry sheds.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC05a	Dam 3 Wall (Lot 13 east, ~25m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC05b	Dam 3 Sediments (Lot 13 east, ~90m², ~0.1m in thickness)	waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC05c	Dam 3 Surface Water (Lot 13 east, ~90m², ~0.5m in depth)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC06	Stockpile (~50 m³, near east dam in Lot 13)	Uncontrolled dumping or stockpiling of poultry manure	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, pathogens, nutrients & asbestos.
AEC07	Fill material (~200m², ~0.5m in thickness, south of eastern poultry shed in Lot 13)	Uncontrolled soil filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, , BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC08a	Dam 4 Wall (Lot 12 west, ~250m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC08b	Dam 4 Sediments (Lot 12 west, ~2,800m², ~0.1m in thickness)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC08c	Dam 4 Surface Water (Lot 12 west, ~2,800m², ~2.0m in depth)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC09a	Dam 5 Wall (Lot 12 north, ~70m², ~2m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC09b	Dam 5 Sediments (Lot 12 north, ~300m², ~0.1m in thickness)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC09c	Dam 5 Surface Water (Lot 12 north, ~300m², ~1.0m in depth)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC10a	Dam 6 Wall (Lot 12 south, ~100m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC10b	Dam 6 Sediments (Lot 12 south, ~700m², ~0.1m in thickness)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC10c	Dam 6 Surface Water (Lot 12 south, ~700m², ~1.0m in depth)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC11a	Dam 7 Wall (Lot 12 south east, ~40m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC11b	Dam 7 Sediments (Lot 12 south east, ~190m², ~0.1m in thickness)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC12	Fill material (~50 m², ~0.5m in thickness, west of Lot 12 south structure)	Uncontrolled soil filling/	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC13	Commercial paint warehouse (~2,000m², central southern portion of Lot 12)	Hazardous buildings materials, chemical and fuel storage/spills/leaks	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, VOC, BTEX, polychlorinated biphenyl, metals, & asbestos
AEC14	Gully between northern dams in Lot 12 (~500m², ~0.5m in thickness)	Uncontrolled soil filling/	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, , BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC15	Residential premises (~3,000 m² Lot 12 east)	hazardous buildings materials, termite treatment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, , BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC16	Septic tank (~3m², ~1.5m deep, Lot 12 east property)	Domestic effluent disposal	Pathogens, petroleum hydrocarbons and metals

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC17	Stockpile (~5 m³, north-west corner Lot 11)	Uncontrolled soil dumping	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, , BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC18	Construction material storage area, including metal sheeting, piping and lumber (~1,000 m², north- west corner Lot 11)	Deterioration of exposed ageing materials, heavy vehicle use.	Petroleum hydrocarbons, BTEX, metals, asbestos.
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam, ~40m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC19b	Dam 8 Sediments (Lot 11 north west smaller dam, ~120m², ~0.1m in thickness)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC19c	Dam 8 Surface Water (Lot 11 north west smaller dam, ~120m², ~0.5m in depth)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC20a	Dam 9 Wall (Lot 11 north west larger dam, ~100m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC20b	Dam 9 Sediments (Lot 11 north west larger dam, ~600m², ~0.1m in thickness)	Waste disposal.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC20c	Dam 9 Surface Water (Lot 11 north west larger dam, ~600m², ~0.5m in depth)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC21	Stockpile (~50 m³, north-west Lot 11, south of AEC18)	Uncontrolled soil dumping	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC22	Septic tank (~3m², ~1.5m deep, Lot 11 north of residence)	Domestic effluent disposal	Pathogens, petroleum hydrocarbons and metals
AEC23	Residential premises (~2,500 m² Lot 11 west)	hazardous buildings materials, termite treatment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, , BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC24	Aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (Lot 11 north-west of residence)	Fuel spills/leaks	Petroleum hydrocarbons, BTEX, PAH, lead
AEC25	Storage shed (~40 m², centre-west Lot 11)	hazardous buildings materials, chemical and fuel storage/spills/leaks, termite treatment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC26	Market Gardens (~5.2ha, ~0.5m in thickness, Central portion of Lot 11)	Application of pesticides	organochlorine pesticides, metals.
AEC27	Storage shed (~40 m², centre-east Lot 11)	hazardous buildings materials, termite treatment, chemical/fuel leaks and spills	Petroleum hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC028	Storage shed (~15 m², centre-south Lot 11)	hazardous buildings materials, termite treatment, chemical/fuel leaks and spills	Petroleum hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.
AEC29a	Dam 10 Wall (Lot 11 south east larger dam, ~220m², ~1m in height)	Potential uncontrolled filling.	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC29b	Dam 10 Sediments (Lot 11 south east larger dam, ~2600m², ~0.1m in thickness)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC29c	Dam 10 Surface Water (Lot 11 south east larger dam, ~2600m², ~2.0m in depth)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC30a	Dam 11 Wall (Lot 11 south east smaller dam, ~200m², ~1m in thickness)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, & asbestos
AEC30b	Dam 11 Sediments (Lot 11 south east smaller dam, ~1,300m², ~2.0m in depth)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, heavy metals, & asbestos
AEC30c	Dam 11 Surface Water (Lot 11 south east larger dam, ~2600m², ~2.0m in depth)	Waste disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, metals, temperature, turbidity, dissolved oxygen, biological oxygen demand
AEC31	Power poles (12 poles across Lot 11 and 12)	Copper chrome arsenate treatment	Arsenic, chromium, copper
AEC32	Residential premises (<2,000 m² Lot 13 north – not within scope)	Deterioration of hazardous buildings materials, application of pesticides	Organochlorine pesticides, polychlorinated biphenyl, metals, & asbestos.
AEC33	Residential premises (<2,000 m² Lot 13 west – not within scope)	Deterioration of hazardous buildings materials, application of pesticides	Organochlorine pesticides, polychlorinated biphenyl, metals, & asbestos.
AEC34	Concrete driveway along the northern boundary to residential dwelling within Lot 13 (~100m in length)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos
AEC35	Asphalt and gravel driveway leading to the commercial paint shed and residential dwelling within Lot 12 (~360m in length)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos
AEC36	Gravel driveway leading to the residential dwelling within Lot 11 (~130m in length)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos

Table 4.1.4 AEC and COPC in Alliance Geotechnical (2021b)

ID	AEC	Land Contaminating Activity (Source)	COPC
AEC37	Gravel driveway leading to the eastern residential dwelling and poultry sheds within Lot 13 (~750m in length)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos

Based on the assessment undertaken by Alliance of site history information, fieldwork observations and data, and laboratory analytical data, in the context of the proposed land use scenario and objectives of this project, Alliance made the following conclusions:

- Detected concentrations of friable asbestos in soil present an unacceptable human health risk at TP70, and ASB12;
- Detected concentrations of bonded asbestos in soil present an unacceptable human health risk at TP09, TP51, ASB12, and DW23;
- Field observations and laboratory analysis warrant further assessment for aesthetics risks at the location of AEC14 (demolition waste, asbestos, and tyres), AEC09 (demolition waste and asbestos), AEC22 (asbestos and potential septic system), and AEC18 (surficial asbestos near TP61).
- Potential contamination risks in AEC13, AEC15, AEC16, AEC22, AEC23, AEC32, AEC33, and AEC34 have not yet been assessed. The presence of existing hardstands is constraining adequate access to assess underlying soils. This is a data gap that needs addressing in order to draw conclusions regarding site suitability in the context of land contamination;
- In the context of preparing a dam dewatering procedure for the site, in addition to information on the
 proposed disposal methods, the dam water data would need to be supplemented with further
 assessment of likely receptors during dewatering, in order to potentially derive less conservative
 assessment criteria, based on a preferred dam water disposal method, some additional dam water
 sampling and analysis to support the preliminary data obtained, that is consistent with site specific
 criteria
- The site is not yet considered to be suitable for the following land use scenario:
 - o Commercial / industrial such as shops, offices, factories, and industrial sites.
- Specific assumptions that apply to the adopted land use scenario, are presented in Section 6 of this
 report.
- Further assessment, management, and remedial planning works for the identified unacceptable exposure risks is required.

Based on those conclusions, Alliance makes the following recommendations:

An interim management plan should be implemented to mitigate potential human health exposure
risks to asbestos in AEC14, TP70, TP09, and DW23. As some of those activities may result in
disturbance of soils impacted with asbestos, a class A licensed asbestos contractor should
undertake the recommended works where necessary. Prior to entry, site workers and other
personnel on site should be made aware of the areas impacted with friable and bonded asbestos,
and the controls in place to mitigate risk of exposure to human health;

- A supplementary contamination assessment should be undertaken to address the data gaps
 associated with AEC13, AEC15, AEC16, AEC22, AEC23, AEC32, AEC33, and AEC34, as well as
 assessing the extent of identified unacceptable risks onsite, to inform future remedial works. The
 supplementary contamination assessment should be undertaken following controlled demolition and
 removal of the structures and pavements.
- The recommended data gap assessment should also address the extent of asbestos contamination at AEC14, TP09, TP61, DS13, TP71, and TP141, as well as the aesthetics risk observed within AEC14, TP141 and TP142 (AEC21) and DS13 (AEC09);
- A remedial action plan (RAP) should be prepared to address the identified unacceptable human health exposure risks upon completion and consideration of the aforementioned data gap assessment; and
- Further assessment, management or remedial planning works for the site, be undertaken by a suitably experienced environmental consultant.

5 Results and Site Characterisation

The results of the previous assessments (refer **Section 4**) have been reviewed. Characterisation of site contamination risks, in a tabular and plan format, is discussed below.

A plan showing the location of sampling point locations at the site, is presented in Figure 3.

Sample descriptions of the media assessed on the site, including soil, sediment, and surface water, are presented in copies of logs and field sampling records presented in **Appendix A**.

A copy of tabulated results from previous contamination assessments that include:

- sample identification numbers and sampling depths;
- adopted contamination assessment criteria;
- highlighted results that exceeded those adopted criteria,

is presented in Appendix B.

A plan showing the locations and vertical extent of soil contaminant concentrations that exceeded the adopted contamination assessment criteria, is presented in **Figure 4**.

Alliance notes that the aforementioned plans, descriptions, tables and inferred lateral/vertical extent of soil concentration exceedances of criteria do not include data which may be obtained during the supplementary contamination assessment works proposed **Section 8**.

6 Conceptual Site Model

The conceptual site mode takes into consideration the results of previous investigations reported in **Section 4** and the data gaps present in **Section 7**.

6.1 Preamble

A conceptual site model (CSM) is a representation of site related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The initial CSM is constructed from the information obtained during the preliminary site investigation (PSI) and detailed site investigation (DSI).

The CSM identifies complete and potential pathways between the known or potential source(s) and the receptors. Where a pathway between a source and a receptor is incomplete, the exposure to chemical substances via that pathway cannot occur, but the potential for that pathway to be completed (for example, by abstraction of groundwater or a change in land use) should be considered in the assessment.

6.2 Land Use

6.2.1 Adopted Land use Scenario

For the purpose of this project, Alliance understands that the proposed land use scenario for the site includes:

• Commercial / industrial such as shops, offices, factories and industrial sites.

6.2.2 Assumptions for Adopted Land Use Scenario

Section 3 of NEPC (2013i) advises that the commercial/industrial land use scenario, which assumes typical commercial or light industrial properties, consisting of single or multistorey buildings where work areas are on the ground floor (constructed on a ground level slab) or above subsurface structures (such as basement car parks or storage areas).

The dominant users of commercial / industrial sites are adult employees who are largely involved in office-based or light industrial activities.

The outdoor areas of the commercial/industrial facilities are largely covered by hardstand, with some limited areas of landscaping or lawns and facilities. Opportunities for direct access to soil by employees using these facilities are likely to be minimal, but there may be potential for employees to inhale, ingest or come into direct dermal contact with dust particulates derived from the soil on the site.

The land use scenario does not include more sensitive uses that may be permitted under relevant commercial or industrial zonings. These more sensitive uses include childcare, educational facilities, caretaker residences and hotels and hostels, etc. Information on uses permitted under local council zoning schemes for commercial/industrial land use can be obtained from local council planning zones/schemes. Should these more sensitive uses be permitted, then 'residential with accessible soil', 'residential with minimal access to soil', or 'public open space' land use scenarios should be considered.

6.3 Sources of Contamination

A number of potential land contaminating activities have been identified for the site, based on and previous contamination assessments. These include:

- Use of a warehouse for commercial painting of various products and materials;
- Uncontrolled filling;
- · Septic tanks;
- · Stockpiling;
- Termite treatment;
- · Use of hazardous building materials; and
- · Former market gardens.

Table J1 in Appendix J of AS 4482.1-2005 and Appendix A in DUAP (1998) provides guidance on chemicals associated with land uses activities. That guidance provides a basis for deciding on contaminants of potential concern (COPC) for each relevant land use activity. Information on COPC adopted for this project is presented in **Section 6.6** of this report.

6.4 Receptors

6.4.1 Identified Receptors

Based on the adopted land use scenario in **Section 6.2**, receptors at the site may include commercial / industrial workers, intrusive maintenance workers, as outlined in **Section 6.4** in Alliance (2021b).

6.4.2 Assumptions for Identified Receptors

The receptors at a commercial/industrial site are predominantly adult employees, who are largely involved in office-based or light indoor industrial activities. The employees who are most susceptible to health risks associated with volatile soil contaminants are the employees who work in offices on the ground floor, as the greatest potential for vapour intrusion occurs with workspaces immediately overlying contaminated soil.

Employees may make use of outdoor areas of a commercial/industrial premises for activities such as meal breaks. Opportunities for direct access to soil by employees using these facilities are likely to be minimal, but there may be potential for employees to inhale, ingest or come into direct dermal contact with dust particulates derived from the soil on the site.

Intrusive maintenance workers are assumed to be adult workers who carry out work in shallow trenches (maximum depth of 1m). The work may include work related to telephone, electricity, gas, water and sewer. It is also assumed that the workers will follow industry accepted procedures in relation to health and safety. The assumptions do not extend to work in deep trenches (such as deep sewers), on the basis that deep trench work would usually require confined space health and safety procedures to be followed, including the use of personal protective equipment.

In the context of petroleum hydrocarbons, exposure³ may occur through:

- inhalation of volatiles from contaminants at any depth (soil and groundwater); and
- direct contact (dust inhalation, ingestion and dermal contact) for contaminated soils from surface to 2m below ground surface (i.e. trench walls for surface to 1m, trench floor 1 to 2m below ground surface).

Potential acute exposure risks or explosion hazards associated with very high concentrations of vapours are not considered in this scenario.

6.5 Exposure Pathways

6.5.1 Human Health

6.5.1.1 Dermal Contact / Ingestion / Dust Inhalation

Site history information and observations made during the site walkover, indicated a potential for contaminants to be present in soils at the site, which could present a dermal contact, ingestion, or dust inhalation risk to human health.

The proposed land use scenario is likely to include unsealed and open space areas, where a pathway between identified receptors and direct contact, ingestion, and dust inhalation contaminant sources, may be complete.

Further assessment of dermal contact, dust inhalation and ingestion risk is considered warranted.

6.5.1.2 Vapour Intrusion / Inhalation

A vapour intrusion / inhalation exposure risk to human health can be present when a vapour source (either primary or secondary⁴) is present.

Site history information and observations made during the site walkover, indicated a potential for a source of vapour to be present on the site, including:

Leaks and spills within the commercial painter's warehouse in Lot 11; and

³ Section 2.1.4 of Friebel, E & Nadebaum, P 2011

⁴ Primary sources typically include underground storage tanks. Secondary sources typically include significantly contaminated soil or groundwater.

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Historical commercial painting within a warehouse near the central southern portion of Lot 12.

The proposed land use scenario is likely to include building footprints as well as limited unsealed and open space areas, where a vapour intrusion / inhalation exposure pathway between identified receptors and these identified primary and secondary sources, may be complete.

Further assessment of vapour intrusion / inhalation risks associated with the aboveground storage tanks and painting warehouse is considered warranted.

Site history information and observations made during the site walkover, indicated a potential for a historical uncontrolled filling to be present at the site. However, Alliance notes that the activity of transporting, placement and spreading of uncontrolled fill soils would typically include significant disturbance of those soils, that can result in the volatilisation of those contaminants that could normally present a vapour intrusion / inhalation risk (e.g. light fraction petroleum hydrocarbons, naphthalene, and chlorinated hydrocarbons); and

On that basis, Alliance considers that the potential for contaminants to be present in the uncontrolled filling, at concentrations which could present a vapour intrusion / inhalation risk, would be low.

Further assessment of vapour intrusion / inhalation risks associated with the uncontrolled filling, is considered not warranted.

6.5.1.3 Asbestos

Bonded asbestos containing material (ACM) is comprised of asbestos bound in a matrix (including cement or resin), which is in sound condition, although possibly broken or fragmented.

Fibrous asbestos (FA) comprises friable asbestos material and includes severely weathered cement sheeting, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF) include free fibres, small fibre bundles and small fragments of ACM5 that would pass through a 7mm x 7mm aperture sieve.

FA and AF are considered to be 'friable' asbestos, which is material that is in a powder form or that can be crumbled, pulverised or reduced to powder by hand pressure when dry.

Asbestos poses a risk to human health when asbestos fibres are made airborne and inhaled. The assessment of sites contaminated with asbestos in soil should aim to describe the nature and quantity of asbestos in soil in sufficient detail to enable a risk management plan to be developed for the proposed land use scenario.

⁵ For bonded ACM fragments to pass through a 7mm x 7mm sieve implies a substantial degree of damage which increases the potential for fibre release.

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Site history information and observations made during the site walkover, indicated a potential for ACM, FA, and AF to be present in soils at the site.

The proposed land use scenario is likely to include limited unsealed and open space areas, where a pathway between identified receptors and asbestos in soils, may be complete.

Further assessment of asbestos exposure risk is considered warranted.

6.5.2 Management Limits for Petroleum Hydrocarbons

Section 2.9 of NEPC (2013a) states that there are a number of policy considerations which reflect the nature and properties of petroleum hydrocarbons:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- · Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

Section 2.9 of NEPC (2013a) notes that:

- CME (2008) includes management limits to avoid or minimise these potential effects. Application of
 management limits requires consideration of site specific factors such as depth of building basements
 and services, and depth to groundwater, to determine the maximum depth to which the limits should
 apply.
- management limits may have less relevance at operating industrial sites (including mine sites) which have no or limited sensitive receptors in the area of potential impact.
- the presence of site total petroleum hydrocarbon (TPH) contamination at the levels of the management limits does not imply that there is no need for administrative notification or controls in accordance with jurisdiction requirements.

Site history information and walkover observations indicated a potential for these policy considerations to be associated with relevant identified areas of environmental concern (AEC) at the site, in the context of the proposed future land use scenario. On that basis, further assessment of petroleum hydrocarbons in soils in the context of those policy considerations, is considered warranted.

6.5.3 Hazardous Ground Gases

NSW EPA (2020a) provides advice on ground gases that if present in the pore space of soils and rocks, and can adversely impact human health and safety or the integrity of structures. The ground gases that are generally of concern in this context are:

- Bulk ground gases, including methane, carbon dioxide, carbon monoxide, hydrogen, hydrogen sulphide, and petroleum vapours; and
- Trace ground gases including radon, volatile organic compounds and mercury vapour.

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Alliance has reviewed site history information review and site walkover observations in the context of sources and origins of hazardous ground gases in Table 1 and Table 2 of NSW EPA (2020a). Based on that review, Alliance considers that further assessment of hazardous ground gases in the context of this project, is considered not warranted.

6.5.4 Aesthetics

Aesthetic issues generally relate to the presence of low-concern or non-hazardous inert foreign material (refuse) in soil or fill resulting from human activity. Sites that are assessed as being acceptable from a human health and environmental perspective may still contain foreign material⁶. Sites may have some soil discolouration from relatively inert chemical waste (e.g. ferric metals) or residual odour (e.g. natural sulfur odour).

Assessment should be undertaken in the context of the sensitivity of the proposed land use scenario (e.g. higher expectations apply to residential properties with gardens compared with industrial settings). General assessment considerations should include:

- That chemically discoloured soils or large quantities of various types of inert refuse, particularly if unsightly, may cause ongoing concern to site users;
- The depth of the materials, including chemical residues, in relation to the final surface of the site;
- The need for, and practicality of, any long term management of foreign material;
- The presence of small quantities of non-hazardous material and low odour residue (e.g. weak petroleum odours) that will decrease over time should not be a cause of concern in most circumstances
- Sites with large quantities of well-covered known inert material that present no health hazard such as brick fragments and cement wastes, are usually of low concern for non-sensitive and sensitive land uses; and
- Caution should be used when assessing sensitive land uses, such as residential, when large quantities
 of various fill types and demolition rubble are present.

Alliance has adapted guidance in Section 3.6.2 and Section 3.6.3 of NEPC (2013a) to facilitate a preliminary assessment of potential aesthetic risks, identified during review of site history information and site walkover observations. The results of the preliminary assessment are presented in **Table 6.5.4**, and they are used to assess whether the need for further assessment to be undertaken, has been triggered.

⁶ Geotechnical issues related to the presence of fill should be treated separately to assessment of site contamination.

Table 6.5.4 Preliminary Aesthetics Screening

Preliminary Aesthetics Screening Question	Assessment
Is there potential for highly malodorous soils or extracted groundwater (e.g. strong residual petroleum hydrocarbon odours, hydrogen sulphide in soil or extracted groundwater, organosulfur compounds) to be present on site?	No
Is there hydrocarbon sheen on surface waters at site?	No
Is there potential for discoloured chemical deposits or soil staining with chemical waste other than of a very minor nature, to be present in site soils;	No
Is there potential for large monolithic deposits of otherwise low risk material, e.g. gypsum as powder or plasterboard or cement kiln dust, to be present in site soils;	No
Is there potential for putrescible refuse including material that may generate hazardous levels of methane such as a deep fill profile of green waste or large quantities of timber waste, to be present in site soils?	No
Is there potential for residue from animal burial (e.g. former abattoir sites) to be present in site soils.	No
Is there potential for large quantities of non-hazardous inert material to be present in site soils?	Yes
Is there potential for high odour residue material to be present in site soils?	No
Is there potential for large quantities of various fill types and demolition rubble to be present in site soils proposed for residential land use?	No

Site history information and observations made during the site walkover, and considered during the aesthetics risk assessment, indicated the following potential aesthetics risks for the site:

- · Use of uncontrolled fill within the footprints of the buildings; and
- Large deposits of building waste within the gulley between dams within Lot 12.

6.5.5 Terrestrial Ecosystems

Site history information and observations made during the site walkover, indicated a potential for contaminants, which may present a risk to terrestrial ecosystems, may be present on site.

Section 3.4.2 of NEPC (2013a) states that:

- a pragmatic risk-based approach should be taken when assessing ecological risk in residential and commercial / industrial land use settings;
- in existing residential and urban development sites, there are often practical considerations that
 enable soil properties to be improved by addition of ameliorants with a persistent modifying effect or
 by the common practice of backfilling or top dressing with clean soil;
- in other cases, all of the site soils will be removed during site development works or relocated for the formation of new landforms;
- sites may also be backfilled with clean soil/fill and the fate of any excavated contaminated soil should be considered in process; and
- commercial and industrial sites may have large building structures and extensive areas covered with concrete, other pavement or hardstand materials and may have limited environmental values requiring consideration while in operational use.

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Alliance has considered the potential for sensitive ecological receptors to be present at the site, in the context of site history information, site walkover observations and the proposed land use scenario.

Alliance notes that:

- Observations of flora onsite were limited to a limited number of scattered trees at the boundaries of the site, with some along the driveway of Lot 13. Observed native herbaceous flora species across the site were minimal;
- The proposed land use scenario will include soil excavation and removal across the site and covering the majority of the site with hardstand pavements and building footprints;
- Mammals are unlikely to access the site following construction of proposed buildings and hardstand areas:
- Invertebrates currently present at the site (including soil fauna, earthworms, and insects) are likely to be removed during excavation works;
- Birds are unlikely to remain onsite following removal of the scattered trees at the site boundary and along the Lot 13 driveway, and construction of the new buildings and hardstand areas;
- Reptiles unlikely to remain onsite following removal of the scattered trees at the site boundary, and along the Lot 13 driveway, excavation works, and construction of the new buildings and hardstand areas;

On the basis that, further assessment of terrestrial ecosystem risks is considered not warranted.

6.5.6 Groundwater

Section 2.2 of NSW DEC (2007) provides guidance on the need for the potential for groundwater contamination to be assessed, for the purposes of evaluating whether it may pose an unacceptable risk to human health and/or the environment.

Section 3.2 of NEPC (2013h) provides guidance on the environmental values (that are conducive to public benefit, welfare, safety or health) and that require protection from the effects of pollution, waste discharge and deposits. These values include:

- · Ecosystem protection;
- Aquaculture and human consumers of food;
- · Agricultural water (irrigation and stock water);
- Recreation and aesthetics;
- Drinking water; and
- · Industrial water.

Each of these values is considered in sub-sections 6.5.6.1 to 6.5.6.6.

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6.5.6.1 Aquatic Ecosystem Protection

In the context of aquatic ecosystems, ANZG (2018) defines level of protection is the degree of protection afforded to a water body based upon its ecosystem condition (current or desired health status of an ecosystem relative to the human degree of disturbance). Selecting a level of protection should consider:

- Maintaining the existing ecosystem condition, or
- Enhancing a modified ecosystem by targeting the most appropriate level of condition.

ANZG (2018) recognises three categories of current or desired ecosystems:

- · High conservation or ecological value systems
- Slightly to moderately disturbed ecosystems; and
- Highly disturbed ecosystems.

Alliance has undertaken an assessment of the likely nearest aquatic ecosystem to the site (refer Section 3.4) and considers that is it a freshwater system. Following review of site-specific attributes, and in the context of guidance provided in ANZG (2018)⁷, Alliance considers that the nearest aquatic ecosystem is:

 highly disturbed system, on the basis that the aquatic ecosystem is measurably degraded and of lower ecological value (e.g. rural streams receiving runoff from intensive horticulture).

Groundwater at the site is considered likely to discharge to the nearest downgradient surface water body identified for the site (refer Section 3.4). That surface water body is considered likely to be polluted and be of a quality that is not consistent with natural background water quality.

Geology at the site is likely to include low permeability clays, which would limit vertical migration of soil contaminants (if present) into groundwater.

The shallowest groundwater at the site is likely to be transient perched groundwater generally present at the soil-bedrock interface, after heavy rain events. Data on natural background water quality for transient groundwater is generally not available. Subsequently, comparison of site specific shallow transient groundwater data against background quality is therefore not practical.

Based on this, Alliance considers that further assessment of aquatic ecosystem protection as a groundwater value, is not warranted.

6.5.6.2 Aquaculture and Human Consumers of Food

Groundwater at the site is considered likely to discharge to the nearest surface water body identified for the site (refer Section 3.4).

 $^{^{7}\} https://www.waterquality.gov.au/anz-guidelines/resources/key-concepts/level-of-protection$

The nearest surface water body to the site is not located on or adjacent to the site and is located a significant distance (~700 m) from the site. Alliance considers it unlikely that occupants of the site would frequent that surface water body for the collection and consumption of aquatic based foods, at a rate that the intake would present an unacceptable risk to human health.

The nearest surface water body identified for the site (refer Section 3.4) appears to be a drainage/creek line and is likely to be shallow in nature. Alliance considers it unlikely that the surface water body would contain an aquatic food source suitable for human consumption.

Based on this, Alliance considers that further assessment of aquaculture and human consumers of food as a groundwater value, is not warranted.

6.5.6.3 Agricultural (Irrigation and Stock Water)

The groundwater bore search in Section 3.4 did not identify any registered groundwater bores within a 500m radius of the site, that were authorised for irrigation or stock watering purposes.

The shallowest groundwater at the site is likely to be transient perched groundwater generally present at the soil-bedrock interface, after heavy rain events, and therefore, unlikely to be a reliable groundwater abstraction source for irrigation and stock watering purposes.

Commercial/industrial development on the site is considered likely to prevent agricultural land use activities from being undertaken, which would mitigate the potential for abstraction of groundwater for irrigation and stock watering.

Based on this, Alliance considers that further assessment of agricultural water as a groundwater value, is not warranted.

6.5.6.4 Recreation and Aesthetics

Section 3.4 of this report did not identify licensed recreational water abstraction bores within a 500m radius of the site. Further to this McNally (2009) advises that:

- deeper regional groundwater present in the fractures of the Ashfield / Bringelly shales (in western Sydney) is generally saline, typically in the range of 5,000-50,000mg/L (due to their sea salt content); and
- the Ashfield / Bringelly shales (in western Sydney) are also considered to have no value as sources
 of groundwater.

The future land use scenario for the site includes a reticulated drinking water system. Development surrounding the site is also considered likely to include a reticulated drinking water system. Alliance considers use of reticulated water as a recreational water source (e.g. filling up swimming pools or ponds on site) is considered a more plausible scenario.

On that basis, installation of groundwater wells on site for the purpose of groundwater abstraction and use as a recreational water source (e.g. filling up swimming pools or ponds on site) is considered unlikely.

Groundwater at the site is considered likely to discharge to the nearest surface water body identified for the site (refer Section 3.4).

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The nearest surface water body identified for the site (refer Section 3.4) appears to be a drainage / creek line, is likely to be shallow in nature, and has limited access to the general public. Alliance considers it is unlikely that the surface water body would be used for:

- sports in which the user comes into frequent direct contact with water, either as part of the activity or accidentally, for example, swimming or surfing (primary contact);
- sports that generally have less-frequent body contact with the water, for example, boating or fishing (secondary contact); or
- visual passive recreational use, for example, pleasant places to be near or to look at (no body contact).

Based on this, Alliance considers that further assessment of recreation and aesthetics as a groundwater value, is not warranted.

6.5.6.5 Drinking Water

The groundwater bore search in Section 3.4 did not identify any registered groundwater bores within a 500m radius of the site, that were authorised for drinking water purposes.

The shallowest groundwater at the site is likely to be transient perched groundwater generally present at the soil-bedrock interface, after heavy rain events, and therefore, unlikely to be a reliable groundwater abstraction source for drinking water purposes.

McNally (2009) advises that:

- deeper regional groundwater present in the fractures of the Ashfield / Bringelly shales (in western Sydney) is generally saline, typically in the range of 5,000-50,000mg/L (due to their sea salt content), and therefore not suitable for drinking purposes; and
- the Ashfield / Bringelly shales (in western Sydney) are also considered to have no value as sources of groundwater.

The future land use scenario for the site includes a reticulated drinking water system. development surrounding the site is also considered likely to include a reticulated drinking water system. Alliance considers use of reticulated water as a drinking water source onsite is a more plausible scenario.

Installation of rainwater collection tanks on site (for use as a secondary source of drinking water is also considered a more plausible scenario).

On that basis, further assessment of drinking water as a groundwater value, is considered not warranted.

6.5.6.6 Industrial Use

The groundwater bore search in Section 3.4 did not identify any registered groundwater bores within a 500m radius of the site, that were authorised for industrial purposes.

The shallowest groundwater at the site is likely to be transient perched groundwater generally present at the soil-bedrock interface, after heavy rain events, and therefore, unlikely to be a reliable groundwater abstraction source for industrial purposes.

Development on the site and on land down gradient of the site, is considered likely to prevent industrial land use activities from being undertaken, which would mitigate the potential for abstraction of groundwater for industrial purposes.

The future land use scenario for the site includes a reticulated drinking water system. Development surrounding the site is also considered likely to include a reticulated drinking water system. Use of reticulated water for industrial purposes (if industrial activities were undertaken) is considered a more plausible scenario.

Based on this, Alliance considers that further assessment of industrial water as a groundwater value, is not warranted.

6.6 Source, Pathway and Receptor Links

Based on:

- The identified sources of contamination associated with the locations of where potential land contaminating activities have been undertaken at the site (areas of environmental concern or AEC);
- The identified contaminants of potential concern (COPC) associated with those land contaminating activities;
- The receptors identified for the site, based on the proposed land use scenario;
- The exposure pathways between the identified sources and receptors that have been assessed as being potentially or actually complete; and
- The results of contamination assessment works presented in Alliance Geotechnical (2021b),

a conceptual site model (CSM) that identifies plausible south-pathway-receptor linkages for the site, is presented **Table 6.6.1**.

The inferred extents of unacceptable contamination risks based on the CSM, are presented in **Figure 4**. Alliance notes that the inferred extent of unacceptable contamination risks do not include data which may be obtained during the supplementary contamination assessment works proposed **Section 8**.

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Table 6.6.1 Source, Pathway and Receptor Links

ID	AEC	Land Contaminating Activity (Source)	COPC	Exposure Pathway	Receptor
AEC01a	Soil within vicinity of TP09	Shallow uncontrolled filling	Bonded asbestos	Inhalation (asbestos) Aesthetics	Commercial / industrial workers
AEC09b	Dam 5 Sediments (Lot 12 north, ~300m², ~0.1m in thickness)	Waste disposal.	Bonded asbestos	Inhalation (asbestos) Aesthetics	Commercial / industrial workers
AEC13	Commercial paint warehouse (~2,000m², central southern portion of Lot 12)	Hazardous buildings materials, chemical and fuel storage/spills/leaks	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC14	Gully between northern dams in Lot 12 (~500m², ~0.5m in thickness)	Shallow uncontrolled filling	Friable & bonded asbestos	Inhalation (asbestos) Aesthetics	Commercial / industrial workers
AEC15	Residential premises (~3,000 m² Lot 12 east)	hazardous buildings materials, termite treatment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC16	Septic tank (~3m², ~1.5m deep, Lot 12 east property)	Domestic effluent disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, pathogens & asbestos.	Dermal contact Soil Ingestion Management limits Aesthetics	Commercial / industrial workers

Table 6.6.1 Source, Pathway and Receptor Links

ID	AEC	Land Contaminating Activity (Source)	COPC	Exposure Pathway	Receptor
AEC18	Construction material storage area, including metal sheeting, piping and lumber (~1,000 m², north- west corner Lot 11)	Shallow uncontrolled filling	Bonded asbestos	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam, ~40m², ~1m in height)	Shallow uncontrolled filling	Bonded asbestos	Inhalation (asbestos) Aesthetics	Commercial / industrial workers
AEC21	Stockpile (~50 m³, north-west Lot 11, south of AEC18)	Uncontrolled soil dumping	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, OCP, BTEX, heavy metals, & asbestos	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC22	Septic tank (~3m², ~1.5m deep, Lot 11 north of residence)	Domestic effluent disposal	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, pathogens & asbestos.	Dermal contact Soil Ingestion Management limits Aesthetics	Commercial / industrial workers
AEC23	Residential premises (~2,500 m² Lot 11 west)	hazardous buildings materials, termite treatment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides, BTEX, polychlorinated biphenyl, metals, & asbestos.	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers

Table 6.6.1 Source, Pathway and Receptor Links

ID	AEC	Land Contaminating Activity (Source)	COPC	Exposure Pathway	Receptor
AEC24	Aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (Lot 11 north-west of residence)	Shallow uncontrolled filling	Friable asbestos	Inhalation (asbestos) Aesthetics	Commercial / industrial workers
AEC32	Residential premises (<2,000 m² Lot 13 north – not within scope)	Deterioration of hazardous buildings materials, application of pesticides	Organochlorine pesticides, polychlorinated biphenyl, metals, & asbestos.	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC33	Residential premises (<2,000 m² Lot 13 west – not within scope)	Deterioration of hazardous buildings materials, application of pesticides	Organochlorine pesticides, polychlorinated biphenyl, metals, & asbestos.	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers
AEC34	Concrete driveway along the northern boundary to residential dwelling within Lot 13 (~100m in length)	Potential uncontrolled filling	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, BTEX, heavy metals, & asbestos	Dermal contact Soil Ingestion Dust inhalation Inhalation (asbestos) Management limits Aesthetics	Commercial / industrial workers

7 Data Gap Analysis and Uncertainty

Based on a desktop review of previous reports referred to in **Section 4** and the development of the conceptual site model (CSM) presented in **Section 6**, Alliance has assessed that that the following data gaps, in the context of site contamination characterisation and management, are present and need to be addressed:

- AEC01a, AEC14 & AEC21 contained contaminated fill soils that extended to a greater depth than the scope outlined in Alliance (2021b). Further investigation and both lateral and vertical delineation of historical contamination in these AECs is warranted.
- AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33 and AEC34 contain structures that limited access to underlying soils during Alliance (2021b)'s investigation, which may be affected by historical contaminating activities, including termite treatment and uncontrolled filling. Post removal of the structures, demolition wastes may also remain onsite.

Provision for addressing these data gaps is presented in **Section 8** of this RAP.

8 Supplementary Contamination Assessment (SCA)

8.1 Preamble

Supplementary contamination assessment (SCA) works will be undertaken, to address the data gaps identified in **Section 7** of this RAP. It is noted that some or all demolition works may need to be completed, before the proposed SCA works can be undertaken.

8.2 Objectives

The objectives of the SCA are to:

- Assess the potential for land contamination to be present in AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33, and AEC34;
- Assess whether identified potential land contamination in AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33, and AEC34 would present an unacceptable human health exposure risk; and
- Assess whether the site is suitable, in the context of land contamination, for the proposed land use scenario; and
- Provide recommendations for further investigations, and management or remediation of land contamination (if warranted).

The work required to address these objectives, will be undertaken in the context of the proposed land use scenario adopted for the site, and is subject to completion of all demolition works in AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC33, AEC33, AEC34, all by suitably licensed contractors.

8.3 SCA Data Quality Objectives

The data quality objectives (DQO) and associated sampling and analysis quality plan (SAQP) for the SCA are presented in the following sub sections.

8.3.1 SCA - Step 1: State the problem

The reason the SCA works are being undertaken, is set out in **Section 8.1** of this report.

The objective of these SCA works is set out in **Section 8.2** of this report.

The project team and technical support experts identified for the project include the Alliance project director, Alliance project manager, Alliance field staff and Alliance's subcontractors.

The design and undertaking of these SCA works will be constrained by the client's financial and time budgets.

The regulatory authorities associated with these SCA works include NSW EPA, the planning authority, and SafeWork NSW.

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8.3.2 SCA - Step 2: Identify the decision / goal of the study

The decisions that need to be made during these SCA work, to address the project objectives, include:

- Is the data collected for the SCA works, suitable for assessing land contamination exposure risks?
- Do the detected concentrations of contaminants of potential concern identified in the CSM, present an unacceptable exposure risk to the receptors identified in the CSM, based on the proposed land use scenario?
- Is the data collected suitable for assessing the likely extent of contamination requiring remediation?

8.3.3 SCA - Step 3: Identify the information inputs

The information inputs required to make the decisions for the project set out in Section 8.3.2, include:

- · Data obtained during the site history review and site walkover;
- Field and laboratory analytical data from previous contamination assessments at site;
- Identification of sample media that needs to be collected, as set out in Section 8.3.7.2;
- Parameters that will be measured in each relevant sample, as set out in Section 8.3.7.7;
- The analytical methods required for each identified COPC, so that assessment can be made relative to adopted site criteria. These are set out in **Section 13.7** of this report; and
- The site criteria for the media of concern. These criteria are set out in **Table 13.3** and will be adopted based on the proposed land use scenario⁸, identified receptors, and site-specific soil and groundwater conditions (where relevant).

8.3.4 SCA - Step 4: Define the boundaries of the study

The spatial extent of the project will be limited to:

- The boundaries of the site as set out in Section 2; and
- Physical constraints or infrastructure on site or on land adjacent to the site, that prevents safe and reasonable access for project team members and/or typical and readily available equipment used for projects of this nature.

The scale of the decisions required (as set out in **Section 8.3.2**) will be based on the boundaries of the site set out in **Section 2**.

⁸ The land use scenarios in Section 2.2 of NEPC (2013a) will be considered when adopting human health assessment criteria. The land use scenarios in Section 2.5 of NEPC (2013a) will be considered when adopting ecological assessment criteria.

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The extents of SCA works will be limited to the distribution of contamination assessed in the CSM in **Section 6** (associated with the data gaps identified in **Section 7**), which are likely to be:

- The inferred vertical extent of AECs, identified as AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33, and AEC34, likely to be to within 0.1m into natural material in those AEC (where pesticides are a COPC); and
- The inferred lateral boundaries of each identified AEC (where applicable).

The time and budget constraints of the SCA works will be as per those set out in the contract (and any subsequent variations to that contract) between the client and Alliance.

The temporal boundaries of the SCA works will include:

- Availability of project team members (including subcontractors and subconsultants) to collect and assess relevant project data;
- · The availability of site access to undertake fieldwork; and
- Meteorological conditions including heat, cold, wind, rain and snow, which may constrain undertaking of fieldwork, or may affect the quality of the data being collected.

8.3.5 SCA - Step 5: Develop the analytical approach

8.3.5.1 Field Duplicates and Triplicates

Field duplicates and triplicates will be collected and assessed in accordance with the procedures set out in **Section 13.5**.

8.3.5.2 Trip Spikes and Trip Blanks

Trip spikes and trip blanks used and assessed in accordance with the procedures set out in Section 13.5.

8.3.5.3 Equipment Rinsate Blanks

Equipment rinsate blanks will be collected and assessed in accordance with the procedures set out in Section 13.5.

8.3.5.4 Field Blanks

Field blanks will be collected and assessed in accordance with the procedures set out in Section 13.5.

8.3.5.5 Analytical Laboratory Quality Assurance and Quality Control

The primary analytical laboratory will:

- · be NATA accredited for the methods used; and
- use a quality assurance and quality control (QA/QC) program that will typically include analysis of method blanks, matrix spikes, surrogate spikes, laboratory control samples and laboratory duplicates.

The primary analytical laboratory will report on whether the analytical results of the QA/QC program are within the criteria set out in the laboratory's adopted data quality objectives.

8.3.5.6 Data Quality Indicators

A set of data quality indicators (DQI) will be adopted for assessing the completeness, comparability, representativeness, precision and bias (accuracy) of data collected during fieldwork, the analytical data produced by the laboratory. Each of these DQI are set out in **Table 8.3.5.6**.

Table 8.3.5.6 Data Quality Indicators and Target Criteria

Completeness	Completeness							
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria					
Experienced sampling team used	Yes	Complete sample receipt advice and chain of custody attached	Yes					
Sampling devices and equipment set out in sampling plan were used (refer Section 8.3.7.2).	Yes	Critical samples identified in sampling plan, analysed	Yes					
Critical locations in sampling plan, sampled (refer Section 8.3.7.1).	Yes	Analysis undertaken addresses COPC in sampling plan (refer Section 8.3.7.7)	Yes					
Critical samples in sampling plan, collected (refer Section 8.3.7.1).	Yes	Analytical methods reported in laboratory documentation and appropriate limit of reporting used	Yes					
Completed field and calibration logs attached	Yes	Sample holding times met (refer Section 8.3.7.8)	Yes					
Completed chain of custody attached	Yes							

Comparability			
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria
Same sampling team used for all work.	Yes	Same laboratory used for all analysis (refer Section 8.3.7.6).	Yes
Weather conditions suitable for sampling.	Yes	Comparable methods if different laboratories used (refer Section 8.3.7.8).	Yes
Same sample types collected and preserved in same way (refer Section 8.3.7.2).	Yes	Comparable limits of reporting if different laboratories used.	Yes
Relevant samples stored in insulated containers and chilled (refer Section 8.3.7.5).	Yes	Comparable units of measure if different laboratories have been used (refer Section 8.3.7.8).	Yes

Representativeness							
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria				
Media identified in sampling plan, sampled (refer Section 8.3.7.2).	Yes	Samples identified in sampling plan, analysed.	Yes				
Samples required by sampling plan, collected (refer Section 8.3.7.1).	Yes						

Precision						
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria			
Minimum 5% duplicates and triplicates collected and analysed (refer Section 8.3.5).	Yes	All laboratory duplicate RPDs within laboratory acceptance criteria (refer Section 8.3.5).	Yes			
RPD unlimited where detected concentrations are <10 times the limit of reporting.	Yes					
RPD within 50% where detected concentrations are 10-20 times the limit of reporting.	Yes					
RPD within 30% where detected concentrations are >20 times the limit of reporting.	Yes					

Bias (Accuracy)							
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria				
Trip blank analyte results less than limit of reporting (refer Section 8.3.5).	Yes	Laboratory method blank results within laboratory acceptance limits (refer Section 8.3.5).	Yes				
Trip spike analyte results less between 60% and 140% (refer Section 8.3.5).	Yes	Laboratory control sample results within laboratory acceptance limits (refer Section 8.3.5).	Yes				
Rinsate blank analyte results less than limit of reporting (refer Section 8.3.5).	Yes	Laboratory spike sample results within laboratory acceptance limits.	Yes				

8.3.5.7 If / Then Statements

If the SCA field and laboratory analytical dataset meets the DQI target assessment criteria, then the data may be considered adequately complete, comparable, representative, precise and unbiased, for the purpose of addressing the decisions / goals of this project as set out in **Section 8.3.2**.

If the SCA field and laboratory analytical dataset does not meet the DQI target assessment criteria, then additional data may need to be collected to address gaps identified in the data.

If the SCA field and laboratory analytical results are within the adopted land contamination assessment criteria (refer **Section 13.3**), then it may be assessed that identified land contamination at the site does not present an unacceptable human health and/or ecological exposure risk.

If the SCA field and laboratory analytical results are outside adopted land contamination assessment criteria (refer **Section 13.3**), then it may be assessed that identified land contamination at the site presents an unacceptable human health and/or ecological exposure risk, or that supplementary site specific qualitative / quantitative risk assessment may be required.

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If the statistical assessment of the relevant previous contamination assessment and SCA data indicate that the arithmetic average concentration of a specified contaminant, is unlikely to exceed an adopted screening criterion, then it may be assessed that the identified land contamination does not present an unacceptable human health and/or ecological exposure risk.

8.3.6 SCA Step 6: Performance and Acceptance Criteria

8.3.6.1 If / Then Decisions

There are two types of decision error:

- Sampling errors these occur when the sampling program does not adequately detect variability of a
 contaminant from point to point across a site. That is, the samples collected are not representative of
 site conditions (e.g. an appropriate number of representative samples have not been collected from
 each stratum, to account for estimated variability in that contaminant); and
- Measurement errors these occur during sample collection, preparation, analysis and reduction of data.

During land contamination assessment, these errors can result in either:

- a Type I error, where land contamination human health and/or ecological exposure risks are considered to be acceptable, when they are not acceptable; or
- a Type II error, where land contamination human health and/or ecological exposure risks are considered to be unacceptable, when they are acceptable.

For decision rules to be sound, they should be designed to mitigate risk of decision errors occurring. The risk of decision error on this project will be mitigated by:

- Ensuring fieldwork is undertaken by suitably experienced field staff and sub-contractors, with reference to the DQO adopted for this project;
- Ensuring laboratory analysis is undertaken by NATA accredited laboratories; and
- Ensuring assessment of field and laboratory analytical data is undertaken by suitably experienced environmental consultants and/or outsourcing assessment to technical experts (if warranted).

8.3.7 SCA Step 7: Develop the plan for obtaining data

8.3.7.1 Sampling Point Densities and Locations

Table A in NSW EPA (1995) provides guidance on minimum sampling point densities required for characterising a site, based on detecting circular hot spots, by using a systematic sampling pattern. Application of sampling densities in Table A can be appropriate when:

- There is little knowledge about the probable locations of the contamination;
- The distribution of the contamination is expected to be random (e.g. landfill sites); or
- The distribution of the contamination is expected to be fairly homogenous (e.g. agricultural lands).

Section 3.1 of NSW EPA (1995) advises that judgemental or stratified sampling methods can be used if there is sufficient information about the probable distribution of the contamination.

Section 6.2.1 in NEPC (2013b) advises that judgemental sampling and the selection of samples (number, location, timing, etc) should be based on knowledge of the site and professional judgement. In these instances, sampling would be expected to be localised to known or potentially contaminated areas identified from knowledge of the site either from the site history or an earlier phase of laned contamination assessment. Judgemental sampling can be used to investigate sub-surface contamination issues in site assessment.

Section 4.1 and Table 1 of WA DOH (2009) provides guidance on asbestos in soil sampling densities (in-situ and stockpiles), relative to the likelihood of asbestos being present on the site, based on assessment of site history.

The scope of this SCA works has included collection of data that provides an understanding of:

- · site history;
- · the locations of potentially contaminated areas;
- the identified COPC;
- laydown mechanisms for COPC in each AEC;
- the likely lateral and vertical extent of potential contamination in each AEC; and
- constraints on site which may restrict the use of certain sampling techniques.

On that basis, it is considered reasonable to adopt a judgemental sampling pattern, using the sampling point densities set out in **Table 8.3.7.1**.

Table 8.3.7.1 SCA Works Sampling Point Densities and Locations

ID	AEC	Sampling Point ID	Method	Target Depth (m bgl)
AEC01a	Soil within vicinity of TP09 (~50m², to nominal depth of 1.0m)	TP09, TP09A. TP09B, TP09C, TP09D, TP09E, TP09F, TP09G. TP09H	Test pit	1.0m, 0.3m into natural, or practical refusal
AEC09b	Dam 5 Sediments (Lot 12 north, ~300m ² , to nominal depth of 0.1m)	TP143-TP146	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC13	Commercial paint warehouse (~2,000m², central southern portion of Lot 12)	TP147-TP153	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC14	Gully between northern dams in Lot 12 (~500m², ~0.5m in thickness)	TP154-TP163	Test pit	3.0m, 0.3m into natural, or practical refusal
AEC15	Residential premises (~3,000 m² Lot 12 east)	TP164-TP172	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC16	Septic tank (~3m², ~1.5m deep, Lot 12 east property)	TP173	Test pit	1.5m, 0.3m into natural, or practical refusal
AEC18	Construction material storage area, including metal sheeting, piping and lumber (~1,000 m², north-west corner Lot 11)	TP174-TP185	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam, ~40m², ~1m in height)	TP186-TP191	Test pit	To base of dam wall, or practical refusal
AEC22	Septic tank (~3m², ~1.5m deep, Lot 11 north of residence)	TP192	Test pit	1.5m, 0.3m into natural, or practical refusal
AEC23	Residential premises (~2,500 m² Lot 11 west)	TP193-TP209	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC24	Area surrounding aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (~50m², 1.0m depth, Lot 11 north-west of residence)	TP70, TP70A. TP70B, TP70C, TP70D, TP70E, TP70F, TP70G. TP70H	Test pit	0.5m, 0.3m into natural, or practical refusal

Table 8.3.7.1 SCA Works Sampling Point Densities and Locations

ID	AEC	Sampling Point ID	Method	Target Depth (m bgl)
AEC32	Residential premises (<2,000 m² Lot 13 north)	TP210-TP216	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC33	Residential premises (<2,000 m² Lot 13 west)	TP217-TP223	Test pit	0.5m, 0.3m into natural, or practical refusal
AEC34	Concrete driveway along the northern boundary to residential dwelling within Lot 13 (~100m in length)	TP224-TP226	Test pit	0.5m, 0.3m into natural, or practical refusal

8.3.7.2 Sampling Methods

8.3.7.2.1 Soils

Soil sampling points will be established onsite, at the locations nominated in Figure 5.

Soil samples will be collected from each relevant sampling point, at the surface, and at regular intervals thereafter, or where there is a change in lithology, or where there is visual/olfactory evidence of potential contamination.

Samples requiring asbestos gravimetric screening will be 10L in volume and will be collected and screened with reference to Table 5 in WA DOH (2009).

Samples requiring asbestos fines (AF) and fibrous asbestos (FA) analysis, will be collected as separate samples to the aforementioned 10L bulk samples.

Samples will be submitted to a NATA accredited laboratory for analysis.

8.3.7.3 Decontamination

Non-disposable sampling equipment will be decontaminated using the procedures set out in **Section 13.7** of this report.

8.3.7.4 Headspace Screening

Collected relevant soil samples will be subjected to headspace screening for ionisable volatile organic compounds, using the procedures set out in Section 13.7 of this report.

8.3.7.5 Sample Identification, Handling, Storage and Transport

Soil samples will be identified, handled, stored and transported using the procedures set out in **Section 13.7** of this report.

8.3.7.6 Selection of Laboratory

The analytical laboratories used for this project will reputable industry recognised environmental laboratories, that are NATA accredited for the analytical methods used.

8.3.7.7 Scheduling of Laboratory Analysis

Collected samples will be scheduled for laboratory analysis based on:

- The COPC identified for the AEC the sample was collected from;
- Observations made of the sample when collected (including staining, odour, presence of anthropogenic materials, and presence of potential asbestos containing materials);
- The results of sample headspace screening (if applicable); and
- The need for specific qualitative or quantitative data to inform assessment of risk associated with other laboratory analytical data (e.g. pH, cation exchange capacity, clay content, organic carbon content).

The laboratory analytical schedule (including upper limiting sample quantities) adopted for this project, is set out in **Table 8.3.7.7**.

Table 8.3.7.7 Schedule of Laboratory Analysis

ID	7.7 Schedule of Laborat	Sampling Point ID									
			TRH/BTEX	РАН	OCP	PCB	Metals (8)	Asbestos (0.001%)	NOC	Pathogens	Nutrients
AEC13	Commercial paint warehouse (~2,000m², central southern portion of Lot 12)	TP147- TP153	7	7	7	7	7	7	7	-	-
AEC14	Gully between northern dams in Lot 12 (~500m², ~0.5m in thickness)	TP154- TP163	-	-	-	-	-	10	-	-	-
AEC15	Residential premises (~3,000 m² Lot 12 east)	TP164- TP172	9	9	9	9	9	9	-	-	-
AEC16	Septic tank (~3m², ~1.5m deep, Lot 12 east property)	TP173	1	1	1	1	1	1	-	2	
AEC22	Septic tank (~3m², ~1.5m deep, Lot 11 north of residence)	TP192	1	1	1	1	1	1	-	2	1
AEC23	Residential premises (~2,500 m² Lot 11 west)	TP192- TP207	8	8	8	8	8	16	-	-	-
AEC24	Area surrounding aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (~50m², to a depth of 1.0m, Lot 11 north-west of residence)	TP70, TP70A. TP70B, TP70C, TP70D, TP70E, TP70F, TP70G. TP70H	-	-	-	-	-	9	-	-	-
AEC32	Residential premises (<2,000 m² Lot 13 north – not within scope)	TP208- TP214	7	7	7	7	7	7	-	-	-
AEC33	Residential premises (<2,000 m² Lot 13 west – not within scope)	TP215- TP221	7	7	7	7	7	7	-	-	-

Table 8.3.7.7 Schedule of Laboratory Analysis

ID	AEC	Sampling Point ID									
			TRH/BTEX	РАН	OCP	PCB	Metals (8)	Asbestos (0.001%)	voc	Pathogens	Nutrients
AEC34	Concrete driveway along the northern boundary to residential dwelling within Lot 13 (~100m in length)	TP222- TP224	3	3	3	3	3	3	-	-	-

8.3.7.8 Analytical Methods, Limits of Reporting and Holding Times

The analytical methods, limits of reporting and sample holding times adopted for this project, are set out in **Table 13.7.8.**

8.4 SCA - Data Assessment and Reporting

The findings of the supplementary contamination assessment will be presented as either an addendum to this RAP if contamination is found, or a site validation report if no unacceptable contamination risks are found. The RAP addendum report will include:

- An executive summary;
- The scope of work undertaken;
- · Site identification details;
- Information on supplementary contamination assessment works undertaken;
- · Field and laboratory analytical data;
- Field and laboratory data QA/QC assessment;
- Supplementary site contamination assessment and characterisation;
- Information on revised inferred unacceptable contamination extents (if any);
- Information on revised inferred remediation extents (if any);
- Information on the revised remedial strategy (if any);
- Information on revised validation strategy (if any);
- Information on revised site monitoring requirements (if any); and

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• Conclusions and recommendations.

The SVR will include:

- An executive summary;
- The scope of work undertaken;
- Site identification details;
- Information on supplementary contamination assessment works undertaken;
- Field and laboratory analytical data;
- Field and laboratory data QA/QC assessment;
- Supplementary site contamination assessment and characterisation; and
- Conclusions and recommendations.

9 Remediation Objectives and Criteria

CRC CARE (2019c) defines a remediation objective as a site specific objective that relates solely to the reduction or control of unacceptable risks associated with one or more pollutant linkage.

The remediation objective is to remediate identified land contamination exposure risks to levels that do not present an unacceptable human health or ecological exposure risk, based on the proposed land use scenario for the site, which comprises:

• Commercial / industrial such as shops, offices, factories, and industrial sites.

It is noted that the client's preferred outcome at the completion of remedial works, is to not have:

- a covenant registered on the land title;
- a notation on a planning certificate for the site; or
- an environmental management plan (EMP) for the site.

It is acknowledged that Section 2.1.2 of NEPC (2013a) advises that:

- investigation and screening levels are not clean up levels or response levels nor are they desirable soil or water quality criteria; and
- the use of investigation and screening levels as default remediation criteria may result in unnecessary remediation and increased development costs, unnecessary disturbance to the site and local environment, and potential waste of landfill space

However, in practice, the investigation and screening levels in NEPC (2013a) are often used as clean up / remediation targets, because the assumptions on which the those levels are based, can have general applicability for protection of certain land uses and there may not be a reason for varying from them.

The remediation assessment criteria that have been adopted for this project, and the basis/source of those criteria, are set out in **Table 13.3** of this RAP.

10 Remediation Extent and Options

10.1 Inferred Extent

The inferred extent of remediation that may be required in these AEC is set out in Table 10.1 and Figure 4.

Table 10.1 Inferred Extent of Remediation

ID	AEC	Contamination Risk	Indicative Volume (In- situ)	Assumptions
AEC01a	Soil within vicinity of TP09	Bonded asbestos	50m ³	$50 m^2$, nominal depth of $1 m$
AEC09b	Dam 5 Sediments (Lot 12 north)	Bonded asbestos	30m ³	300m ² , nominal thickness of 0.1m
AEC14	Gully between northern dams in Lot 12	Friable and bonded asbestos	250m ³	500m ² , nominal thickness of 0.5m
AEC18	Construction material storage area, including metal sheeting, piping and lumber (North- west corner Lot 11)	Bonded asbestos	500m ³	1,000m², nominal thickness of 0.5m
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam)	Bonded asbestos	40m³	40m², nominal thickness of 1.0m
AEC24	Area surrounding aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (Lot 11 north-west of residence)	Friable asbestos	20m³	20m ² , nominal thickness of 1.0m

It is noted that these inferred extents are based on a limited set of data that does not include soils underlying these AECs, and so plausible unacceptable contamination has been assumed. One or more of the extents may be subject to change, as a result of:

- Latent subsurface conditions;
- Temporal or seasonal fluctuations (particularly water content in dams / creeks / streams / ponds); and
- Supplementary contamination assessment works (as proposed in **Section 8.3** of this RAP).

It is also noted that the results of the supplementary assessment may also require a change to the preferred management / remediation strategy, or even potentially remove the need for management / remediation. Should the inferred extents, preferred strategy or need for management / remediation change, based on supplementary assessment works, these changes would be presented in either an addendum to this RAP, or in the site remediation and validation report (SRVR) prepared at the completion of the site remedial works.

10.2 Options Assessment For Known & Unknown Remedial Works

10.2.1 Preamble

When assessing management of contamination, the preferred hierarchy⁹ of options for site clean-up and/or management should be considered, which includes:

- on-site treatment of the contamination so that it is destroyed, or the associated risk is reduced to an acceptable level; and
- off-site treatment of excavated soil so that the contamination is destroyed, or the associated risk is reduced to an acceptable level, after which the soil is returned to the site; or

if the above are not practicable;

- consolidation and isolation of the soil by on-site containment with a properly designed barrier; and
- removal of contaminated material to an approved site or facility, followed, where necessary, by replacement with appropriate material; or
- where the assessment indicates remediation would have no net environmental benefit or would have a net adverse environmental effect, implementation of an appropriate management strategy.

10.2.2 Adopted Criterion

For the purpose of assessing the suitability of known and unknown remediation options considered appropriate for this project, Alliance has adopted a matrix that facilitates a qualitative score being assessed for each option being considered. That assessment matrix is presented in **Table 10.2.2**, in the context of the known unacceptable contamination risks onsite and unknown risks following supplementary assessments.

Table 10.2.2 Qualitative Remediation Options Assessment Criteria Matrix

ID	Performance Ranking Guidance and Scoring			
Criterion	0 1	2	3	4
Applicability	Not Applicable ←			→ Highly applicable
Technical Feasibility	Unfeasible			→ Highly feasible

⁹ NEPC 2013, 'National Environment Protection (Assessment of Site Contamination) Measure 1999, Site Contamination Policy Framework, Section 6' dated May 2013

Table 10.2.2 Qualitative Remediation Options Assessment Criteria Matrix

ID	Performance Ranking Guidance and Scoring					
Criterion	0	1	2	3	4	
Effectiveness	Not effective for desired cutcome				Highly effective for desired outcome	
Sustainability ¹⁰	Unsustainable ←				\rightarrow	
Stakeholder Acceptance	Not acceptable to EPA, Council or local community				Highly acceptable to EPA, Council or local community	
Duration	Long term relative to redevelopment timeframe				Short term relative to redevelopment timeframe	
Cost	Likely highest cost ←				→Likely lowest cost	

10.2.3 Potential Remedial Options Selection and Assessment

For the purpose of identifying remediation options for the site, consideration has been given to guidance in Section 3.1 of CRC CARE (2019c). Options considered appropriate, based on the inferred extents of remediation and nature of the contamination set out in **Section 10.1** of this RAP, are presented for bonded asbestos in **Table 10.2.3.1** & friable asbestos in **Table 10.2.3.2**. A qualitative assessment of each relevant remediation option against the criterion adopted for this process, is also presented in **Table 10.2.3.1** & **Table 10.2.3.2**.

Table 10.2.3.1 Bonded Asbestos Remedial Option Assessment

Criterion	Excavate and Dispose	In-situ Containment	Onsite Treatment	Comments
Applicability	4	1	4	Excavation and disposal integrates well with proposed development work. Containment solution would not integrate well with proposed development design
				Onsite treatment of bonded ACM works well with proposed development, noting treated soils would need to be placed below the surface (top 10cm of soil).
Technical Feasibility	4	1	4	Excavation and disposal methods readily available.
				Containment creates constraints for construction and related long term site management, not consistent with client preference.
				Onsite treatment methods available, with limitations based on soil type/structure.

¹⁰ In context of remediation, this is considered to refer to achieving an acceptable balance between the impacts of undertaking remediation activities and the benefits of those activities will deliver in terms of the environmental, economic and social indicators relevant to the site.

Table 10.2.3.1 Bonded Asbestos Remedial Option Assessment

Criterion	Excavate and Dispose	In-situ Containment	Onsite Treatment	Comments
Effectiveness	4	2	4	Excavation is highly effective - unacceptable risks removed from site.
				Containment achieved by removing pathway between source and receptor.
				Onsite treatment effective if implemented correctly, with limitations based on soil type/structure.
Sustainability	1	3	4	Excavation not consistent with sustainability principles.
				Containment requires long term passive maintenance and constraints on land use.
				Onsite treatment is sustainable - relatively minor quantities of waste generated, and retention of soils onsite.
Stakeholder Acceptance	3	1	3	Excavation removes risk from site, however, major site disturbance and traffic impacts considered not sustainable by some stakeholders.
				Containment unlikely to be consistent with local Council contaminated land policy.
				Onsite treatment acceptable.
Duration	3	1	2	Offsite disposal comparatively fast, remediation unlikely to adversely impact project timeframe.
				Containment design, approval and construction likely to impact project timeframe.
				Onsite treatment would likely impact project timeframe.
Cost	1	3	3	Disposal costs are significantly high.
				Containment short term costs acceptable, but long term cost (management and future land value) may be unacceptable.
				Onsite treatment considered generally cost effective.
Score	20	13	24	

Table 10.2.3.1 Friable Asbestos Remedial Option Assessment

Criterion	Excavate and Dispose	In-situ Containment	Onsite Treatment	Comments
Applicability	4	1	1	Excavation and disposal integrates well with proposed development work.
				Containment solution would not integrate well with proposed development design
				Onsite treatment methods not available.

Table 10.2.3.1 Friable Asbestos Remedial Option Assessment

Criterion	Excavate and Dispose	In-situ Containment	Onsite Treatment	Comments
Technical Feasibility	4	1	1	Excavation and disposal methods readily available.
				Containment creates constraints for construction and related long term site management, not consistent with client preference.
				Onsite treatment methods not available.
Effectiveness	4	2	1	Excavation is highly effective - unacceptable risks removed from site.
				Containment achieved by removing pathway between source and receptor.
				Onsite treatment methods not available.
Sustainability	1	3	1	Excavation not consistent with sustainability principles.
				Containment requires long term passive maintenance and constraints on land use.
				Onsite treatment methods not available.
Stakeholder Acceptance	3	1	1	Excavation removes risk from site, however, major site disturbance and traffic impacts considered not sustainable by some stakeholders.
				Containment unlikely to be consistent with local Council contaminated land policy.
				Onsite treatment methods not available.
Duration	4	1	1	Offsite disposal comparatively fast, remediation unlikely to adversely impact project timeframe.
				Containment design, approval and construction likely to impact project timeframe.
				Onsite treatment methods not available.
Cost	1	3	1	Disposal costs are significantly high.
				Containment short term costs acceptable, but long term cost (management and future land value) may be unacceptable.
				Onsite treatment methods not available.
Score	21	13	7	

11 4Preferred & Conceptual Remedial Options

Based on Alliance's understanding of a the known extent of unacceptable land contamination risks, the potential extent of unacceptable land contamination risks to be addressed during the supplementary assessment, the proposed land use scenario for the site, and the client's preferred remedial outcomes for the site, and the results of the potential options assessment presented in **Section 10.2**, the conceptual preferred remedial options for the site are presented for known land contamination risks in **Table 11.1** and currently unknown land contamination risks in **Table 11.2**.

It is noted that the conceptual remedial options are based on a qualitative assessment of a limited set of data. One or more of the preferred options may be subject to change, as a result of:

- Latent subsurface conditions, including unexpected finds;
- Temporal or seasonal fluctuations (particularly water content in dams / creeks / streams / ponds); and
- Supplementary contamination assessment works (as proposed in Section 8.3 of this RAP).

It is also noted that the results of the supplementary assessment may also require a change to the preferred remedial options. Should this scenario arise, that change would be presented in either an addendum to this RAP, or in the site remediation and validation report (SRVR) prepared at the completion of the site remedial works.

Table 11.1 Preferred remedial options

AEC	Potential Contamination Risk	Preferred Remedial Option and Method
AEC01a, AEC09b, AEC18 & AEC19a	Bonded asbestos in fill soils >0.1m below	Works will be undertaken in a manner that avoids further damage or burial of the ACM by the process.
	surface	Establish a treatment pad area.
		Staged excavation of fill soils and spreading across treatment pad to a thickness no greater than 0.1m.
		Systematic inspection of surface of spread material and hand picking of visible ACM fragments.
		Rake spread soils in one direction, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		Rake spread soils in a direction 90° perpendicular to the first raking direction, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		ACM fragments will be disposed to a suitably licensed waste receiving facility, with a waste classification.
		This method (as opposed to hand raking) is proposed, to accommodate the physical properties of soils (cohesive).
		Validation of the raked area will be undertaken in accordance with Section 13.

AEC	Potential Contamination Risk	Preferred Remedial Option and Method
AEC01a, AEC09b, AEC18 & AEC19a	Bonded asbestos in surface soils <0.1m	Works will be undertaken in a manner that avoids further damage or burial of the ACM by the process.
	below surface	Systematic inspection of surface and hand picking of visible ACM fragments.
		Rake surface soils in one direction, to a depth of 0.1m below ground level, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		Rake surface soils in a direction 90° perpendicular to the first raking direction, to a depth of 0.1m below ground level, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		ACM fragments will be disposed to a suitably licensed waste receiving facility, with a waste classification.
		This method (as opposed to hand raking) is proposed, to accommodate the physical properties of surface soils and likely presence of anthropogenic materials in the surface soils.
		Validation of the raked area will be undertaken in accordance with Section 13.
AEC14 & AEC24	Asbestos fines in surface and/or fill soils	Excavate soils and dispose to suitably licensed waste receiving facility, with a waste classification.
		Validation of the residual excavation will be undertaken in accordance with Section 13.
		Backfill remedial excavation.

Table 11.2 Conceptual remedial options

AEC	Potential Contamination Risk	Conceptual Remedial Option and Method
Subject to supplementary contamination assessment	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, pesticides, polychlorinated biphenyl, metals, VOC, pathogens	Excavate soils and dispose to suitably licensed waste receiving facility, with a waste classification. Validation of the residual excavations will be undertaken in accordance with Section 13 Backfill remedial excavation.
Subject to supplementary contamination assessment	Bonded asbestos in fill soils >0.1m below surface	Works will be undertaken in a manner that avoids further damage or burial of the ACM by the process. Establish a treatment pad area. Staged excavation of fill soils and spreading across treatment pad to a thickness no greater than 0.1m. Systematic inspection of surface of spread material and hand picking of visible ACM fragments.
		Rake spread soils in one direction, using an excavator fitted with a tooth bucket. Systematic inspection of raked surface and hand picking of visible ACM fragments. Rake spread soils in a direction 90° perpendicular to the first raking direction, using an excavator fitted with a tooth

AEC	Potential Contamination Risk	Conceptual Remedial Option and Method
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		ACM fragments will be disposed to a suitably licensed waste receiving facility, with a waste classification.
		This method (as opposed to hand raking) is proposed, to accommodate the physical properties of soils (cohesive).
		Validation of the raked area will be undertaken in accordance with Section 13.
Subject to supplementary	Bonded asbestos in surface soils <0.1m	Works will be undertaken in a manner that avoids further damage or burial of the ACM by the process.
contamination assessment	below surface	Systematic inspection of surface and hand picking of visible ACM fragments.
		Rake surface soils in one direction, to a depth of 0.1m below ground level, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		Rake surface soils in a direction 90o perpendicular to the first raking direction, to a depth of 0.1m below ground level, using an excavator fitted with a tooth bucket.
		Systematic inspection of raked surface and hand picking of visible ACM fragments.
		ACM fragments will be disposed to a suitably licensed waste receiving facility, with a waste classification.
		This method (as opposed to hand raking) is proposed, to accommodate the physical properties of surface soils and likely presence of anthropogenic materials in the surface soils.
		Validation of the raked area will be undertaken in accordance with Section 13.
Subject to supplementary	Asbestos fines in surface and/or fill soils	Excavate soils and dispose to suitably licensed waste receiving facility, with a waste classification.
contamination assessment		Validation of the residual excavation will be undertaken in accordance with Section 13.
		Backfill remedial excavation.
Subject to	Aesthetics	Establish treatment pad.
supplementary contamination assessment		Process soils using sieve bucket, mechanical screens or similar, to manage/remove anthropogenic materials to a level consistent with qualitative aesthetic criteria.
		Validation of the treated soils will be undertaken in accordance with Section 13.

12 Remedial Strategy

The remedial strategy set out below, is conceptual in nature, and has been prepared as a guide on the assumption that supplementary contamination assessment works at the site, identifies unacceptable land contamination risks, and assumptions around likely remedial works, compared to similar scenarios on similar residential subdivision sites. In the event the supplementary contamination assessment works do not identify unacceptable land contamination risks, then the strategies set out in Section 0 of this RAP would be obsolete.

12.1 Schedule of Remediation

Remedial works would be expected to take three to six months to complete. This timeframe would be refined following appointment of a remediation contractor.

12.2 Notifications and Approvals

A notification of intent to undertake remedial works will be submitted to the relevant planning authority, 30 days prior to the date that remedial works (excluding any supplementary contamination assessment works where proposed) are intended to commence.

Alliance understands that remedial works classified as Category 2 under State Environmental Planning Policy (SEPP) 55, do not require development consent. However, in the event that the proposed remedial works trigger the Category 1 criteria in SEPP 55, including but limited to issues related to:

- designated development under the Environmental Planning and Assessment Regulation;
- critical habitat under the Threatened Species Conservation Act;
- the works having a significant effect on threatened species, populations or ecological communities or their habitats;
- the works being located in areas of environmental significance; or
- requiring consent under another SEPP or a regional environmental plan (REP),

then development consent for the remedial works may be required.

The following information will be provided to the relevant planning authority, with the notice of intent to undertake remedial works:

- a copy of previous contamination assessment reports;
- a copy of this RAP;
- the contact details of the party responsible for ensuring remedial works comply with relevant regulatory requirements; and
- the contact details of the remediation contractor.

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Occupants of properties adjoining the site and located immediately across the road from the site, will be provided with a notification of intent to undertake remedial works on the site, in accordance with **Section 15.3** of this RAP.

Development consent or a construction certificate will be obtained (if required) from the relevant planning authority for demolition, excavation and/or shoring works.

Demolition works (if required) will be undertaken by a contractor holding an appropriate SafeWork NSW demolition licence. That licence will hold a chemical endorsement, in the event that demolition works include an underground and/or aboveground storage tank.

Approvals will be obtained (if required) from NSW Roads and Maritime Services (RMS) for works being undertaken adjacent to (or on) RMS identified assets.

A water access licence will be obtained (if required) from Water NSW, in the event remediation works requires water to be taken at specified times, rates and circumstances from specified areas or locations.

A water supply work and use approval will be obtained (if required) from Water NSW, in the event remediation works requires construction and use of a specific water supply at a specified location. Water supply works may include pumps, bores, spear points and wells.

Asbestos removal works (if required) will be notified to SafeWork NSW by the remediation contractor. The asbestos removal works will be undertaken by a contractor that will hold a:

- Class A licence for removal of friable asbestos / asbestos fines; and
- Class B licence for removal of bonded asbestos.

Within seven days of completion of underground storage tank abandonment / decommissioning / removal works (if applicable), a notification will be sent to SafeWork NSW.

Within 30 days of completion of all remediation and validation works, a notice of completion of the remedial works will be submitted to the relevant planning authority.

12.3 Structural Stability

The stability of structures (including, but not necessarily limited to footings, walls, buildings and roads), which may be impacted by the proposed remedial works) will be assessed by a suitably experienced structural consultant before commencing remedial works. Recommendations made by the structural consultant will be incorporated by the remediation contractor, into the execution of all relevant site works.

12.4 Demolition Works

A hazardous materials survey (if required), will be prepared prior to demolition of structures (if required). The survey will identify the location, nature and extent of all hazardous materials (including asbestos, lead, PCB and synthetic mineral fibres) in those structures.

Identified hazardous materials will be treated (where appropriate), removed from site, and a clearance certificate obtained from a licensed asbestos assessor and/or competent person, prior to commencing demolition of the structures. The clearance certificate will be prepared with reference to guidance provided in Appendix D of SafeWork NSW (2019).

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The remediation contractor will retain records of the transport and disposal of demolition wastes (including hazardous materials), removed from the site.

12.5 Remedial Works

The preferred remedial options (and associated methodologies) to be adopted for each of the identified AEC or potential contamination risks, are presented in **Section 11** of this RAP, and any addenda prepared for this the RAP.

Remedial works will be undertaken by the remediation contractor with guidance provided by the appointed environmental consultant. The environmental consultant will assist the remediation contractor in setting out the inferred extents of remediation required, based on refined remedial extents set out in the supplementary contamination assessment report referred to in **Section 10**, and any subsequent addenda prepared for this RAP. The environmental consultant will provide guidance to the remediation contractor on:

- where to extend remedial works beyond the inferred extent (if observations indicate a need for 'chasing out' additional contamination); and
- when to stop remedial works, to allow validation works to be undertaken.

The remediation contractor will be responsible for:

- Coordinating right of way access through third party properties (as required) with the site owner and owners/tenants of third party properties;
- Site establishment, including stabilising of site access entry/exit points;
- Provision of worker amenities on site;
- Establishment of sediment and erosion controls;
- Establishing soil / sediment treatment areas, which may require localised minor earthworks to create cleared and 'flat' treatment pads;
- · Mixing treated material back into onsite soils;
- · Disposal of wastes to appropriately licensed facilities; and
- Retaining records of the transport and disposal of all wastes generated during remedial works.

12.6 Unexpected Finds, Unsuccessful Remedial Strategies and Contingency Plans

There is a degree of uncertainty inherent in site assessment and remediation works. Based on the site history information made available to CS prior to preparing this RAP, it is considered the unexpected scenarios presented in **Table 12.6** could occur during remedial works.

Contingency plans and protocols to be implemented, should those scenarios arise, are also presented in **Table 12.6**.

Table 12.6 Unexpected Finds, Unsuccessful Remedial Strategies and Contingency Plans

Unexpected Find Scenario / Unsuccessful Remedial Strategy	Contingency Plan
Potential asbestos containing	Cease remedial works.
materials encountered beyond the inferred extent of remediation.	Consider undertaking intrusive soil investigations into and around the potential asbestos identified beyond the inferred remedial extent, and assess whether the asbestos is bonded and/or friable.
	Submit notification to SafeWork NSW for asbestos removal works (if not already addressed in an existing notification).
	Prepare an amendment to the remediation and/or validation strategy in the RAP.
	Remediate the unexpected contamination.
	Undertake validation of the remedial works.
Unexpected buried contamination or underground structures encountered during remedial works (e.g. buried waste, underground storage tank, underground sump/pit).	Cease remedial works.
	Consider undertaking intrusive soil investigations into and around the unexpected find, to assess the potential nature and extent of the contamination / structure.
	Consider undertaking groundwater assessment works, if the potential nature and extent of the contamination / structures suggest a risk to groundwater.
	Prepare an amendment to the remediation and/or validation strategy in the RAP (if required), pending the outcomes and of the soil and/or groundwater assessment works.
	Remediate the unexpected contamination.
	Undertake validation of the remedial works.

12.7 Material Importation and Backfilling of Remedial Excavations

Should backfilling of remedial excavations be required, then backfill material being imported onto site will be lawful and will be limited to:

- Virgin excavated natural material (VENM);
- · Excavated natural material (ENM); and
- Other materials that:
- have been certified as compliant with a NSW EPA issued resource recovery exemption and the
 placement on the site is within the constraints of the resource recovery exemption; and
- do not present an unacceptable human health or ecological exposure risk, in the context of the proposed land use scenario.

Material proposed for importing will be compatible with existing soil characteristics for site drainage purposes. Nominating engineering properties (compaction, density, moisture content) is not within the scope of this RAP and will be specified by others.

Certification of VENM, ENM or other approved resource recovery material, will be reviewed by the environmental consultant before the remediation contractor commences importing the material.

The remediation contractor will be responsible for:

- Inspecting every load of imported material for consistency with the material described in the relevant certification, including that the material is free of anthropogenic materials, odours or staining.
- · Maintaining a record of inspection of each load;
- Maintaining detailed records of all material imported to site, including details of the supplier/s, source
 of the material, quantity of the material, importing vehicle registration numbers, and dates/times the
 material is received on site, and placement location of imported material.

13 Site Validation Data Quality Objectives (DQO)

Appendix B in NEPC (2013b) provides guidance on the data quality objective (DQO) process, which is a seven step iterative planning approach that can be used to define the type, quantity and quality of data needed to inform decisions relating to land contamination risks at the site.

The site validation data quality objectives (DQO) set out below, are conceptual in nature, and have been prepared as a guide on the assumption that supplementary contamination assessment works at the site, identifies unacceptable land contamination risks, and assumptions around likely remedial works, compared to similar scenarios on similar residential subdivision sites. In the event the supplementary contamination assessment works do not identify unacceptable land contamination risks, then the DQO set out in Section 13 of this RAP would be obsolete.

13.1 Step 1: State the problem

The reason the project is being undertaken, is set out in **Section 1.1** of this report.

The objective of this project is set out in **Section 1.2** of this report.

The project team and technical support experts identified for the project include the Alliance project director, Alliance project manager, Alliance field staff and Alliance's subcontractors.

The design and undertaking of this project will be constrained by the client's financial and time budgets.

The regulatory authorities associated with this project include NSW EPA, the local planning authority, and SafeWork NSW.

13.2 Step 2: Identify the decision / goal of the study

The decisions that need to be made during this project, to address the project objectives, include:

- Is the data collected for the project, suitable for assessing land contamination exposure risks?
- Do the detected concentrations of contaminants of potential concern identified in the CSM, present an unacceptable exposure risk to the receptors identified in the CSM, based on the proposed land use scenario?
- Has the remediation objective been achieved?
- Is the site suitable, in the context of land contamination, for the proposed land use scenario?

13.3 Step 3: Identify the information inputs

The information inputs required to make the decisions for the project set out in Section 13.2, include:

- Data obtained during the site history review, site walkover and remediation works observations;
- Records produced by the remediation contractor and other relevant 3rd parties, during the undertaking of remediation works;

- Identification of sample media that needs to be collected, as set out in Section 13.7;
- Parameters that will be measured in each relevant sample, as set out in Section 13.7;
- The analytical methods required for each identified COPC, so that assessment can be made relative to adopted site criteria. These are set out in **Section 13.7** of this report; and
- The site criteria for the media of concern. These criteria are set out in **Table 13.3** and will be adopted based on the proposed land use scenario¹¹, identified receptors, and site specific soil and groundwater conditions (where relevant).

Table 13.3 Adopted Tier 1 Site Assessment Screening Criteria

Exposure Pathway	Land Use Scenario ¹²	Criteria Reference
Human health dermal contact / ingestion / dust inhalation	HIL D - Commercial / industrial	Table 1A(1) in NEPC (2013a) Table B4 in Friebel, E & Nadebaum P (2011)
Human health (asbestos)	Commercial / industrial D	Table 7 in NEPC (2013a) ¹³
Human health (aesthetics)	All	Characteristics and processes in Section 3.6.2 and 3.6.3 in NEPC (2013a)
Management Limits (petroleum hydrocarbons)	Commercial / industrial	Table 1B(7) in NEPC (2013a)

13.4 Step 4: Define the boundaries of the study

The spatial extent of the project will be limited to:

- The boundaries of the site as set out in Section 2; and
- Physical constraints or infrastructure on site or on land adjacent to the site, that prevents safe and reasonable access for project team members and/or typical and readily available equipment used for projects of this nature.

The scale of the decisions required (as set out in **Section 13.2**) will be based on the boundaries of the site set out in **Section 2**.

The vertical and lateral extents of validation works will be limited to the extends of remediation works undertaken on relevant AECs identified in the CSM (refer **Section 6**), which are likely to be:

¹¹ The land use scenarios in Section 2.2 of NEPC (2013a) will be considered when adopting human health assessment criteria. The land use scenarios in Section 2.5 of NEPC (2013a) will be considered when adopting ecological assessment criteria.

¹² Consideration will be given to soil type, soil texture, soil depth, groundwater depth and appropriate species protection levels.

¹³ A depth of up to 10cm below ground level is adopted to define 'surface soil'.

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- The inferred vertical extent of AECs, identified as AEC13, AEC15, AEC16, AEC21, AEC22, AEC23, AEC32, AEC33, and AEC34, likely to be to within 0.1m into natural material in those AEC (where pesticides are a COPC);
- The inferred lateral boundaries of each identified AEC (where applicable).

The time and budget constraints of this project will be as per those set out in the contract (and any subsequent variations to that contract) between the client and Alliance.

The temporal boundaries of the project will include:

- Availability of project team members (including subcontractors and subconsultants) to collect and assess relevant project data;
- · The availability of site access to undertake fieldwork; and
- Meteorological conditions including heat, cold, wind, rain and snow, which may constrain undertaking of fieldwork, or may affect the quality of the data being collected.

13.5 Step 5: Develop the analytical approach

13.5.1 Field Duplicates and Triplicates

A minimum of one set of field duplicates and triplicates will be collected for each set of 20 samples collected (an equivalent of 5%), excluding asbestos samples.

Field duplicate and triplicate samples will be collected by splitting one bulk sample across three separate sample containers. Soil samples will not be homogenised, particularly where volatile or semi volatile COPC are being considered.

Analysis of the duplicate samples and triplicate samples will be scheduled based on at least one of the analytes that the relevant parent sample is being analysed for.

The relative percent difference (RPD) of the detected concentrations in the parent and duplicate, and the parent and triplicate, will be calculated, and the result compared to the relevant data quality indicator (DQI), as set out in **Section 13.5.6**.

13.5.2 Trip Spikes and Trip Blanks

One trip spike and one trip blank will be used for each day of sampling¹⁴.

A minimum of one trip spike and one trip blank will be scheduled for BTEX analysis, during the project, provided the sample preservation, handling, transport and storage procedures used are the same for each day of sampling undertaken.

 $^{^{14}}$ When samples are being collected on that day, that will be analysed for BTEX and/or TRH C_6 - C_{10} .

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13.5.3 Equipment Rinsate Blanks

One rinsate blank will be used for each day of sampling¹⁵.

A minimum of one rinsate blank will be scheduled for analysis for at least one of the COPC, during the project, provided sample collection and equipment decontamination procedures are the same for each day of sampling.

Analysis of the rinsate blank will be based on at least one of the analytes that the parent sample is being analysed for (excluding asbestos).

13.5.4 Field Blanks

One field blank will be used for each day of sampling¹⁶.

13.5.5 Analytical Laboratory Quality Assurance and Quality Control

The primary analytical laboratory will:

- · be NATA accredited for the methods used; and
- use a quality assurance and quality control (QA/QC) program that will typically include analysis of method blanks, matrix spikes, surrogate spikes, laboratory control samples and laboratory duplicates.

The primary analytical laboratory will report on whether the analytical results of the QA/QC program are within the criteria set out in the laboratory's adopted data quality objectives.

13.5.6 Data Quality Indicators

A set of data quality indicators (DQI) will be adopted for assessing the completeness, comparability, representativeness, precision and bias (accuracy) of data collected during fieldwork, the analytical data produced by the laboratory. Each of these DQI, and associated target criteria are set out in **Table 13.5.6**.

¹⁵ Only where non-disposable sampling equipment is being used on that day.

¹⁶ When samples are being collected on that day, that will be analysed for PFAS.

Table 13.5.6. Data Quality Indicators and Target Criteria

Completeness				
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria	
Experienced sampling team used	Yes	Complete sample receipt advice and chain of custody attached	Yes	
Sampling devices and equipment set out in sampling plan were used (refer Section 13.7).	Yes	Critical samples identified in sampling plan, analysed	Yes	
Critical locations in sampling plan, sampled (refer Section 13.7).	Yes	Analysis undertaken addresses COPC in sampling plan (refer Section 13.7)	Yes	
Critical samples in sampling plan, collected (refer Section 13.7).	Yes	Analytical methods reported in laboratory documentation and appropriate limit of reporting used	Yes	
Completed field and calibration logs attached	Yes	Sample holding times met (refer Section 13.7)	Yes	
Completed chain of custody attached	Yes			

Comparability			
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria
Same sampling team used for all work.	Yes	Same laboratory used for all analysis (refer Section 13.7).	Yes
Weather conditions suitable for sampling.	Yes	Comparable methods if different laboratories used Refer Section 13.7).	Yes
Same sample types collected and preserved in same way (refer Section 13.7).	Yes	Comparable limits of reporting if different laboratories used.	Yes
Relevant samples stored in insulated containers and chilled (refer Section 13.7).	Yes	Comparable units of measure if different laboratories have been used (refer Section 13.7).	Yes

Representativeness			
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria
Media identified in sampling plan, sampled (refer Section 13.7).	Yes	Samples identified in sampling plan, analysed.	Yes
Samples required by sampling plan, collected (refer Section 13.7).	Yes		

Precision			
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria
Minimum 5% duplicates and triplicates collected and analysed (refer Section 13.5).	Yes	All laboratory duplicate RPDs within laboratory acceptance criteria (refer Section 13.5).	Yes

Table 13.5.6. Data Quality Indicators and Target Criteria	Table 13.5.6. Data	Quality	Indicators	and Targe	t Criteria
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RPD unlimited where detected concentrations are <10 times the limit of reporting.	Yes	
RPD within 50% where detected concentrations are 10-20 times the limit of reporting.	Yes	
RPD within 30% where detected concentrations are >20 times the limit of reporting.	Yes	

Bias (Accuracy)				
Field Considerations	Target Criteria	Laboratory Considerations	Target Criteria	
Trip blank analyte results less than limit of reporting (refer Section 13.5).	Yes	Laboratory method blank results within laboratory acceptance limits (refer Section 13.5).	Yes	
Trip spike analyte results less between 60% and 140% (refer Section 13.5).	Yes	Laboratory control sample results within laboratory acceptance limits (refer Section 13.5).	Yes	
Rinsate blank analyte results less than limit of reporting (refer Section 13.5).	Yes	Laboratory spike sample results within laboratory acceptance limits.	Yes	

13.5.7 If / Then Statements

If the field and laboratory analytical dataset meets the DQI target assessment criteria, then the data may be considered adequately complete, comparable, representative, precise and unbiased, for the purpose of addressing the decisions / goals of this project as set out in **Section 13.2**.

If the field and laboratory analytical dataset does not meet the DQI target assessment criteria, then additional data may need to be collected to address gaps identified in the data.

If the field and laboratory analytical results are within the adopted land contamination assessment criteria (refer **Section 13.3**), then it may be assessed that identified land contamination at the remediation objective has been achieved, and that the site does not present an unacceptable human health and/or ecological exposure risk, based on the adopted land use scenario.

If the field and laboratory analytical results are outside adopted land contamination assessment criteria (refer **Section 13.3**), then it may be assessed that identified land contamination at the site presents an unacceptable human health and/or ecological exposure risk, or that supplementary site specific qualitative / quantitative risk assessment may be required, or that further contamination management / remediation work is required.

13.6 Step 6: Performance and Acceptance Criteria

13.6.1 If / The Decisions

There are two types of decision error:

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- Sampling errors these occur when the sampling program does not adequately detect variability of a
 contaminant from point to point across a site. That is, the samples collected are not representative of
 site conditions (e.g. an appropriate number of representative samples have not been collected from
 each stratum, to account for estimated variability in that contaminant); and
- Measurement errors these occur during sample collection, preparation, analysis and reduction of data.

During land contamination assessment, these errors can result in either:

- a Type I error, where land contamination human health and/or ecological exposure risks are considered to be acceptable, when they are not acceptable; or
- a Type II error, where land contamination human health and/or ecological exposure risks are considered to be unacceptable, when they are// acceptable.

For decision rules to be sound, they should be designed to mitigate risk of decision errors occurring. The risk of decision error on this project will be mitigated by:

- Ensuring fieldwork is undertaken by suitably experienced field staff and sub-contractors, with reference to the DQO adopted for this project;
- Ensuring laboratory analysis is undertaken by NATA accredited laboratories; and
- Ensuring assessment of field and laboratory analytical data is undertaken by suitably experienced environmental consultants and/or outsourcing assessment to technical experts (if warranted).

13.7 Step 7: Develop the plan for obtaining data

13.7.1 Sampling Point Densities and Locations

Table A in NSW EPA (1995) provides guidance on minimum sampling point densities required for characterising a site, based on detecting circular hot spots, by using a systematic sampling pattern. Application of sampling densities in Table A can be appropriate when:

- There is little knowledge about the probable locations of the contamination;
- The distribution of the contamination is expected to be random (e.g. landfill sites); or
- The distribution of the contamination is expected to be fairly homogenous (e.g. agricultural lands).

Section 3.1 of NSW EPA (1995) advises that judgemental or stratified sampling methods can be used if there is sufficient information about the probable distribution of the contamination.

Section 6.2.1 in NEPC (2013b) advises that judgemental sampling and the selection of samples (number, location, timing, etc) should be based on knowledge of the site and professional judgement. In these instances, sampling would be expected to be localised to known or potentially contaminated areas identified from knowledge of the site either from the site history or an earlier phase of laned contamination assessment. Judgemental sampling can be used to investigate sub-surface contamination issues in site assessment.

Section 7.5 of NEPC (2013b) and VIC EPA (2009) provides guidance on sampling point densities, sampling methods and sample quantities for stockpiles.

Section 4.1 and Table 1 of WA DOH (2009) provides guidance on asbestos in soil sampling densities (in-situ and stockpiles), relative to the likelihood of asbestos being present on the site, based on assessment of site history.

The scope of this project has included collection of data that provides an understanding of:

- site history;
- the locations of potentially contaminated areas;
- the identified COPC;
- laydown mechanisms for COPC in each AEC;
- the likely lateral and vertical extent of potential contamination in each AEC; and
- constraints on site which may restrict the use of certain sampling techniques.

On that basis, it is considered reasonable to adopt a mix of systematic grid based and judgemental sampling patterns, using the preferred sampling point densities set out for known contamination risks in **Table 13.7.1**, and unknown contamination risks in **Table 13.7.2**.

Table 13.7.1 Preferred Validation Sampling Point Densities and Locations

ID	Contamination Risk	Preferred Validation Strategy
AEC01a, AEC09b,	Bonded asbestos in fill soils >0.1m below	A visual assessment of the residual remediation excavation footprint and photographic record.
AEC18 &	surface	A visual inspection of each batch of treated material.
AEC19a		Collect one representative 10L sample per spread or per 70m³ of treated material for bonded ACM field screening, whichever .
		Visual validation of excavation base and walls if exposed natural material, otherwise collect:
		 one 10L sample per 5m x 5m of excavation base; and
		 one 10L sample per ten lineal metres of excavation wall, for each relevant stratum, or per vertical metre of excavation depth, whichever is greater, minimum four.
		for bonded ACM field screening.
		Clearance certificate from a licensed asbestos assessor (LAA) or competent person.
AEC01a, AEC09b,	Bonded asbestos in surface soils <0.1m	A visual assessment of the residual remediation excavation footprint and photographic record.
AEC18 &	below surface	Visual inspection of surface soils for visible asbestos.
AEC19a		Clearance certificate from a licensed asbestos assessor (LAA) or competent person.
AEC14 & AEC24	Asbestos fines in surface and/or fill soils	A visual assessment of the residual remediation excavation footprint and photographic record.
		A visual inspection of each batch of treated material. Collect:

Table 13.7.1 Preferred Validation Sampling Point Densities and Locations

ID	Contamination Risk		Preferred Validation Strategy
		 one 500mL sai wall, for each r excavation dep 	mple per 5m x 5m of excavation base; and mple per ten lineal metres of excavation relevant stratum, or per vertical metre of oth, whichever is greater, minimum four. te from a licensed asbestos assessor
-	Imported VENM for backfilling	Site specific	VENM to be validated using the procedures set out in https://www.epa.nsw.gov.au/your-environment/waste/classifying-waste/virgin-excavated-natural-material
-	Imported ENM for backfilling	Refer The excavated natural material 2014 Order and Exemption	Quantity dependent – refer to The excavated natural material (ENM) resource recovery exemption. Laboratory analysis of all samples as per Order and Exemption.
-	Imported Other for backfilling	Refer relevant Order and Exemption	Quantity dependent – refer to the relevant resource recovery exemption. Laboratory analysis of all samples as per Order and Exemption.

Table 13.7.12 Preferred Conceptual Validation Sampling Point Densities and Locations

ID	Potential Contaminati	ion Risk	Preferred Conceptual Validation Strategy
Subject to supplementary	Petroleum hydrocarbons,	A visual assessme	ent of the residual remediation excavation record.
contamination	polycyclic aromatic	Collect one sample	e per 5m x 5m of excavation base.
assessment	hydrocarbons, pesticides, polychlorinated biphenyl, metals, VOC	for each relevant s	e per ten lineal metres of excavation wall, stratum, or per vertical metre of excavation s the greater frequency, minimum four.
	Diplienyi, metals, voc	Laboratory analysi of concern.	s of all samples for relevant contaminants
Subject to supplementary	Bonded asbestos in fill soils >0.1m below	A visual assessme footprint and photo	ent of the residual remediation excavation ographic record.
contamination	surface	A visual inspection	of each batch of treated material.
assessment			entative 10L sample per spread or per aterial for bonded ACM field screening,
		Visual validation of natural material, of	f excavation base and walls if exposed therwise collect:
		one 10L samp	le per 5m x 5m of excavation base; and
		for each releva	le per ten lineal metres of excavation wall, ant stratum, or per vertical metre of pth, whichever is greater, minimum four.
		for bonded ACM fi	eld screening.
		Clearance certifica (LAA) or competer	ite from a licensed asbestos assessor it person.

Table 13.7.12 Preferred Conceptual Validation Sampling Point Densities and Locations

ID	Potential Contaminat	ion Risk	Preferred Conceptual Validation Strategy
Subject to supplementary contamination assessment	Bonded asbestos in surface soils <0.1m below surface	footprint and photo	ent of the residual remediation excavation ographic record. If surface soils for visible asbestos.
		•	ite from a licensed asbestos assessor it person.
Subject to supplementary contamination assessment	Asbestos fines in surface and/or fill soils	 (LAA) or competent person. A visual assessment of the residual remediation excavation footprint and photographic record. A visual inspection of each batch of treated material. Collect: one 500mL sample per 5m x 5m of excavation base; one 500mL sample per ten lineal metres of excavation wall, for each relevant stratum, or per vertical metre of excavation depth, whichever is greater, minimum four Clearance certificate from a licensed asbestos assessor (LAA). 	
Subject to supplementary contamination assessment	Aesthetics	A visual assessme and photographic r	ent of the residual remediation excavation record.

13.7.2 Sampling Methods

13.7.2.1 Soils

Samples collected from excavation bases and footprints, will typically be collected across a depth of 0.0-0.1m below the surface.

Samples collected from excavation walls will typically be collected across a profile 0.1 to 0.2m in thickness and will target suspect material based on visual and/or olfactory observations.

Samples collected from stockpiles, will be collected from a minimum of 0.3m below the surface of the stockpile. The sampling pattern for the stockpile will be a three- dimensional representative grid of sampling points across stockpile being assessed, taking into consideration guidance in Section 7.5.3 of NEPC (2013) and Figure 2 of EPA VIC (2009).

Samples requiring asbestos gravimetric screening will be 10L in volume, with sampling targeting suspect asbestos material or construction debris, and screened with reference to Table 5 in WA DOH (2009).

Samples requiring calculation of asbestos fines (AF) and fibrous asbestos (FA), with sampling targeting suspect asbestos material or construction debris, and collected as separate samples to the 10L bulk samples.

If olfactory or visual observations of remedial works, or headspace analysis of screening samples, indicate a potential for contamination to be present, then consideration will be given to collection of additional validation samples / data.

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The location of collected validation sampling data will be recorded on a site plan.

Samples will be submitted to a NATA accredited laboratory for analysis.

13.7.3 Decontamination

Non-disposable sampling equipment will be decontaminated between sampling points to mitigate potential for cross contamination of samples. Decontamination will include the following procedure:

- Washing off the non-disposable sampling equipment with a solution of potable water and phosphate free detergent (e.g. Decon 90), noting that Decon 90 will not be used on equipment used for collection of samples that will be analysed for PFAS compounds;
- · Rinsing the washed equipment with distilled or de-ionised water; and
- Air drying of the rinsed equipment.

13.7.4 Headspace Screening

When COPC identified for the site include volatiles (e.g. BTEX, TRH or VOC), collected soil samples will be subjected to headspace screening for ionisable volatile organic compounds, using a calibrated photoionisation detector (PID) fitted with a 10.6 eV lamp. A sub sample from each collected sample will be placed in a zip lock bag, sealed, and shaken. Each zip lock bag will then be pierced with the tip of a PID and the results recorded on the relevant sampling point borehole or test pit log.

13.7.5 Sample Identification, Handling, Storage and Transport

Soil samples will be identified using the relevant Alliance project number, the sampling point identification number and the sampling depth interval (e.g. BH01/0.0-0.2 or TP05/0.5-0.7), and date the sample was collected.

Groundwater samples will be identified using the relevant Alliance project number, the sampling point identification number (e.g. MW01) and date the sample was collected.

Surface water samples will be identified using the relevant Alliance project number, the sampling point identification number (e.g. SW01) and date the sample was collected.

Samples will be placed in laboratory prepared containers (containing preservatives as appropriate), bulk sample bags and zip lock bags. Soil and water samples will be stored in insulated containers with ice.

Samples will be transported to the relevant analytical laboratory by Alliance or a third party courier, using chain of custody (COC) documentation.

13.7.6 Selection of Laboratory

The analytical laboratories used for this project will reputable industry recognised environmental laboratories, that are NATA accredited for the analytical methods used.

13.7.7 Scheduling of Laboratory Analysis

Collected samples will be scheduled for laboratory analysis based on:

- The COPC identified for the AEC the sample was collected from;
- Observations made of the sample when collected (including staining, odour, presence of anthropogenic materials, and presence of potential asbestos containing materials);
- The results of sample headspace screening (if applicable); and
- The need for specific qualitative or quantitative data to inform assessment of risk associated with other laboratory analytical data (e.g. pH, cation exchange capacity, clay content, organic carbon content).

The laboratory analytical schedule (including upper limiting sample quantities) adopted for this project, is set out in **Table 13.7.7**.

Table 13.7.7 Schedule of Laboratory Analysis

ID	AEC		
		All relevant contaminants of concern	
AEC01a	Soil within vicinity of TP09	Asbestos	
AEC09b	Dam 5 Sediments (Lot 12 north)	Asbestos	
AEC13	Commercial paint warehouse (Central southern portion of Lot 12)	All	
AEC14	Gully between northern dams in Lot 12	All	
AEC15	Residential premises (Lot 12 east)	All	
AEC16	Septic tank (Lot 12 east property)	All	
AEC18	Construction material storage area, including metal sheeting, piping and lumber (North-west corner Lot 11)	Asbestos	
AEC19a	Dam 8 Wall (Lot 11 north west smaller dam)	Asbestos	
AEC21	Stockpile (north-west Lot 11, south of AEC18)	-	
AEC22	Septic tank (Lot 11 north of residence)	All	
AEC23	Residential premises (Lot 11 west)	All	
AEC24	Area surrounding aboveground fuel storage tank unlabelled, likely diesel petroleum ~5,000L (Lot 11 north-west of residence)	Asbestos	
AEC32	Residential premises (Lot 13 north – not within scope)	All	
AEC33	Residential premises (Lot 13 west – not within scope)	All	
AEC34	Concrete driveway along the northern boundary to residential dwelling within Lot 13 (~100m in length)	All	
-	Virgin excavated natural material	All samples for relevant contaminants of concern, based on guidance presented in https://www.epa.nsw.gov.au/your-environment/waste/classifying-waste/virgin-excavated-natural-material	
-	Excavated natural material	All samples for the chemicals and attributes in Table 4 of The excavated natural material Order 2014.	
-	Other imported material	All samples for the relevant chemicals and attributes in the relevant resource recovery order.	

13.7.8 Analytical Methods, Limits of Reporting and Holding Times

The analytical methods, limits of reporting and sample holding times adopted for this project, are set out in **Table 13.7.8.**

Table 13.7.8 Analytical Methods, Limits of Reporting and Holding Times				
Analyte	Method	Limit of Reporting (mg/kg)	Limit of Reporting (µg/L)	Holding Time
BTEX and TRH C ₆ -C ₁₀	USEPA 5030, 8260B and 8020	0.2-0.5	1-2 and 50	14 days
TRH C ₁₀ -C ₄₀	USEPA 8015B & C	20-100	50-500	14 days
PAH	USEPA 8270	0.1-0.2	0.5-10	14 days
PCB	USEPA 8270	0.2	-	14 days
OCP	USEPA 8081	0.2	-	14 days
Metals (Hg and Cr ^{vi})	USEPA 8015B & C	0.05-2	0.1-5	6 months (28 days)
VOC	USEPA 8260	0.5-1	0.5-1	14 days
Asbestos ID	AS4926	Absence / presence	-	No limit
Asbestos (WA DOH)	Inhouse	0.001% w/w	-	No limit

14 Site Remediation and Validation Report

The remediation and validation reporting strategy set out below, is conceptual in nature, and has been prepared as a guide on the assumption that supplementary contamination assessment works at the site, identifies unacceptable land contamination risks, and assumptions around likely remedial works, compared to similar scenarios on similar residential subdivision sites. In the event the supplementary contamination assessment works do not identify unacceptable land contamination risks, then the strategies set out in Section 14 of this RAP would be obsolete.

At the completion of remedial works, a site remediation and validation report will be prepared with reference to the relevant sections of NSW EPA (2020b) The site remediation and validation report will include:

- An executive summary;
- The scope of reporting work undertaken;
- · Site identification details;
- A summary of geology and hydrogeology;
- A summary of site condition and the surrounding environment;
- Information on supplementary contamination assessment works undertaken (if any);
- · A pre-remediation conceptual site model;
- Summary of the remedial action plan;
- · Remediation and validation activities undertaken;
- Information on waste management;
- Information on the remedial works undertaken;
- Information on imported material;
- An assessment of field and laboratory quality assurance / quality control data;
- Validation results and discussion;
- · A post remediation conceptual site model; and
- Conclusions and recommendations.

15 Site Management Plan

The site management plan strategy set out below, is conceptual in nature, and has been prepared as a guide on the assumption that supplementary contamination assessment works at the site, identifies unacceptable land contamination risks, and assumptions around likely remedial works, compared to similar scenarios on similar residential subdivision sites. In the event the supplementary contamination assessment works do not identify unacceptable land contamination risks, then the strategies set out in Section 15 of this RAP would be obsolete.

15.1 Register of Contacts

A register of contact details of stakeholders considered relevant to the project, is presented in Table 0.

Table 0 Register of Contacts

Table 6 Register of Contacts			
Role	Person	Stakeholder	Contact
Emergency Services	-	Police / Fire Ambulance	000
Site Owner	Private owners and/or ESR	-	-
Project Owner	Toby Young	ESR	0422 598 431
Planning Authority	-	Penrith City Council	02 4732 7777
WHS Regulatory Authority	-	SafeWork NSW	131 050
Environmental Regulatory Authority	-	NSW EPA	131 500
Remediation Contractor	To be confirmed	To be confirmed	To be confirmed
Environmental Consultant	Jacob Walker	Alliance Geotechnical	0424 066 612
Occupational Hygienist	Shambhu Shrestha	Alliance Geotechnical	0430 808 612

15.2 Emergency Preparedness and Response

An emergency assembly point will be established at an appropriate location, and this location communicated to workers and visitors during the site induction process. In the event an emergency situation arises, workers and visitors will assemble at this location (if safe to do so) and await further instructions from the site supervisor, project manager or emergency services.

Spill control kits and fire extinguishers will be located at appropriate locations at the site.

Contact details to be used in the event of an emergency, are presented in Table 0.

15.3 Community Relations

Occupants of properties adjoining the site and located immediately across the road from the site, will be provided with a notification of intent to undertake remedial works on the site, a minimum of two business days before commencing those remedial works.

A register will be maintained on site, for the recording of remedial works related communications from the community.

Communication received from community about the remedial works, will be directed to the project manager in the first instance. The project manager will arrange for the communication to responded to, in accordance with arrangements agreed to between the remediation contractor and the principal.

15.4 Signage, Security and Hours of Operations

The hours of operation at the site will be limited to:

- Monday to Friday between 7:00am and 5:00pm, and Saturday between 8:00am and 1:00pm; or
- days and times set out in the relevant development consent conditions (if available), which will take precedent over the aforementioned days and times.

The 24-hour contact details of the remediation contractor will be put on a sign, and posted on the site boundary, adjacent to the site access point. The sign will be maintained by the remediation contractor until completion of remedial works.

Security of the site will be maintained for the duration of the remedial works, with appropriate boundary fencing/barricades and access point locks.

15.5 Workplace Health and Safety

15.5.1 Safe Work Method Statements

All parties intending to undertake tasks in the remediation area/s will prepare a safe work method statement (SWMS) that documents:

- The task/s to be undertaken;
- Hazards associated with undertaking those task/s;
- A risk assessment of each hazard, considering consequence and likelihood;
- · Control measures to be implemented to mitigate identified risks; and
- A re-assessment of each hazard, assuming control measure implementation, and showing a demonstrable decrease to the risk.

15.5.2 Personal Protective Equipment (PPE)

The following personal protective equipment (PPE) will be worn (as a minimum) by all persons working on, or visiting, the remediation work area/s:

- Eye protection (e.g. safety glasses or goggles);
- Long sleeves and long pants;

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- A high visibility vest (or clothing);
- Protective foot wear (e.g. safety boots);
- · Hard hat; and
- · Cut resistant gloves.

Additional PPE or respiratory protective equipment (RPE) may also be required, subject to the control measures set out in the SWMS for the task.

15.5.3 Occupational Hygiene

Atmospheric monitoring will be undertaken (subject to the findings of the risk assessment in the relevant SWMS), or as may be recommended by a suitably experienced occupational hygienist. Monitoring may include airborne fibre monitoring during asbestos remedial works, vapour monitoring during hydrocarbon remediation, or gas/explosion risk monitoring during landfill remediation.

Plant and equipment will be appropriately decontaminated before leaving a remedial works zone.

15.5.4 Decontamination

The following decontamination procedure will apply to all persons existing the remediation work area/s:

- Cleaning of protective footwear, including removal of potentially contaminated material from the soles of the footwear; and
- Washing of hands (including prior to eating, drinking or smoking).

15.6 Asbestos Removal Control Plan (ARCP)

An asbestos removal control plan (ARCP) is a document that identifies the specific control measures that will be used to ensure workers and other people are not at unacceptable risk when asbestos removal work is being conducted. It is focused on the specific control measures necessary to minimise risk from exposure to asbestos.

An ARCP plan helps ensure the asbestos removal is well planned and carried out in a safe manner. An asbestos removal control plan is only required to be prepared for licensed asbestos removal work. However, one can be prepared to assist when planning asbestos removal work that does not require a licence.

Asbestos registers relevant to the asbestos to be removed and the area to be worked on, will be taken into account when preparing an ARCP.

The structure of the ARCP will address the specific requirements for each job, and will be prepared with reference to Appendix B in SafeWork NSW (2019).

For works involving the management and/or removal of asbestos, an asbestos removal control plan (ARCP) will be prepared before licensed asbestos removal work commences The ARCP will include details of:

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- how the asbestos removal will be undertaken, including the method, tools, equipment and PPE to be used; and
- the asbestos to be removed, including the location, type and condition of the asbestos.

Specifications and drawings relevant to the asbestos removal work, will be attached to the ARCP, to provide additional information about the asbestos.

Preparation of the ARCP will include, as far as is practicable, consultation with the client, the person with management or control of the site, workers, and workers' health and safety representatives.

For residential asbestos removal work, the person conducting a business or undertaking (PCBU) and the owner/occupier will also be consulted.

Once prepared, copies of the ARCP will be:

- given to the person who commissioned the licensed asbestos removal work
- kept at the workplace until the completion of the asbestos removal work; and
- readily accessible on site for the duration of the licensed asbestos removal work, to:
 - o PCBUs at the workplace;
 - o workers or their health and safety representatives; and
 - o the occupants of the premises (if the work is carried out in residential premises).

The ARCP will also be made available for inspection under the Work Health and Safety Act.

If a notifiable incident occurs in connection with the asbestos removal work to which the ARCP relates, the licensed asbestos removalist will keep the plan for at least two years after the incident occurs.

15.7 Traffic Management

The remediation contractor will:

- ensure vehicles exit the site in a forward direction;
- arrange for receipt and dispatch of materials during approved remedial working hours (refer Section 15.4);
- · securely cover all loads to prevent dust or odour emissions during transportation; and
- utilise suitable experienced and qualified traffic controllers (as required).

Traffic and haulage routes will be selected based on:

- · compliance with traffic road rules;
- opportunities to mitigate noise, vibration, dust and odour impacts to properties/occupants adjacent to the site; and

preference for state controlled roads (as opposed to local roads);

15.8 Soil and Stormwater Management

15.8.1 Site Access and Egress

A sediment and erosion control plan will be prepared by the remediation contractor, to suit the nature and staging of the remedial works. Control measures will be operated and maintained by the remediation contractor, until completion of the remedial works.

Vehicle and plant site access/egress will be managed to prevent soils being tracked onto roads and pathways external to the site (e.g. gravels, gabions, cattle grids). Soil will be broomed or washed off tyres/tracks prior to the vehicle or plant leaving the remediation work area. Broomed/washed soil will be managed onsite, depending on its likely contamination status.

Surface stormwater generated from (or travelling through) the remediation works area, will be managed using relevant measures set out in Landcom (2004).

In the event soils are tracked onto roads or pathways external to the site, these soils will be removed by sweeping and/or shovelling.

15.8.2 Stockpiles

Stockpiles of material generated during remedial works will be:

- generally constructed as low elongated mounds on level surfaces;
- placed away from stormwater pits, drainage lines and gutters;
- not located on footpaths or nature strips, unless approved by the local planning authority;
- · stored in secure areas and covered if remaining on site for more than 24 hours; and
- kept damp if containing (or suspected of containing) asbestos.

15.8.3 Groundwater and Excavation Pump Out

Should excavations require water to be pumped out, the water will be sampled and analysed by a suitably experienced environmental consultant, for total suspended solids (TSS), pH, metals (8) and petroleum hydrocarbons.

If the laboratory analytical results are less than the relevant¹⁷ aquatic ecosystem groundwater investigation levels (GILs) set out in ANZECC (2000), then the excavation water may be discharged to the local stormwater system.

If the laboratory analytical results are greater than the relevant¹⁸ aquatic ecosystem groundwater investigation levels (GILs) set out in ANZECC (2000), then other options for the excavation water will be considered, including:

- Assessment of proposed receiving waters, in the context of the contaminant concentrations found in the excavation water;
- · Removal and offsite disposal by a liquid waste contractor; and
- Discharge to sewer under an approval obtained from the relevant sewerage infrastructure operator.

In the event the site requires dewatering, development consent from the relevant planning authority and/or approvals from the state water authority, will be obtained (if required).

15.8.4 Site Rehabilitation

Areas of the site that become exposed as a result of remedial works, will be stabilised progressively, as remedial works are completed. Stabilisation methods will be maintained until such time as they are no longer required (e.g. vegetation becomes established and self-sustaining, or site development work commences).

15.9 Waste Management

Wastes generated during remedial works will be removed from site for recycling / disposal, with reference to NSW EPA (2014) and the relevant provisions of the Protection of the Environment Operations Act 1997 and SafeWork NSW (2019).

The remediation contractor will maintain detailed records of each load of waste generated during remedial works, including:

- The location the waste was generated from;
- The classification of the waste;
- The date and time the waste was removed from the site;
- The vehicle registration number of the waste transport vehicle;
- Evidence of WasteLocate information (where applicable)

¹⁷ Freshwater or marine, and adopted based on protection levels that consider aquatic ecosystem disturbance

¹⁸ Freshwater or marine, and adopted based on protection levels that consider aquatic ecosystem disturbance

- The volume of each waste type removed from site;
- · Weighbridge receipt docket from the waste receiving facility; and
- The number of the environment protection licence (EPL) authorising the receiving facility to accept that classification or waste.

15.10 Dust Control

Consideration will be given to the following control measures, to mitigate risk of dust emissions migrating beyond the boundary of the remediation work area/s:

- erection of dust screens around the perimeter of the site (e.g. fencing with shade cloth attached);
- securely covering all loads entering or exiting the site;
- · use of water sprays across the site to suppress dust;
- covering stockpiles of contaminated soil remaining on site for more than 24 hours;
- · keeping excavation surfaces moist;
- · wetting down of placed fill material during spreading;
- sweeping of hardstand surfaces;
- · minimising soil disturbance works during windy days; and
- · retaining stabilised site access/egress points for vehicles.

15.11 Odour Control

Should odours be detected at the site boundary during remediation works, monitoring of those odours may be undertaken, using methods¹⁹ suited to the odour type, based on recommendations from a suitably experienced odour consultant (if required). This may include:

- use of appropriate covering techniques such as plastic sheeting to cover excavation faces or stockpiles;
- use of fine mist sprays (which may incorporate deodorizing agents);
- · use of hydrocarbon mitigating agents on impacted areas/materials; and
- adequate maintenance of equipment and machinery to minimise exhaust emissions.

¹⁹ Methods could include instrumental, chemical analysis, electronic, sensory tests or olfactometry.

15.12 Airborne Asbestos Monitoring

Airborne asbestos monitoring will be undertaken on site by a Licensed Asbestos Assessor (LAA) during friable asbestos removal or handling. Monitoring during bonded asbestos removal, will be undertaken, subject to advice provided by the occupational hygienist/competent person appointed to the project.

Monitoring will be used to validate controls put in place to mitigate potential asbestos exposure.

Portable battery operated air monitors will be placed in static positions approximately 1.5m above the ground surrounding the asbestos handling / removal area.

Analysis of monitors will be undertaken by a NATA-accredited laboratory. The results of analysis will be compared to the criteria presented in **Table 15.12** and the appropriate action applied.

Table 15.12 Atmospheric Monitoring Action Criteria and Measures

Detected Concentration (fibres per millilitre)		
<0.01	Continue with established control measures	
0.01 to 0.02	Review established control measures	
	Investigate probably cause	
	Establish additional control to mitigate further fibre release	
>0.02	Stop works	
	Notify the relevant regulatory authority that work has ceased	
	Investigate probably cause	
Extent the works exclusion zone		
Establish additional control to mitigate further fibre release		
Do not re-commence work until detected concentrations are at or beloper millilitre		

15.13 Noise and Vibration Control

Plant and equipment being utilised for remedial works, will be fitted with noise attenuation devices (e.g. exhaust mufflers). Where possible, selection and use of reversing alarms will avoid standard tonal pulse alarms.

Vehicle access roads will be designed to mitigate the need for vehicles and mobile plant to reverse during travel (e.g. creation of turning circles in the immediate vicinity of remediation work area/s).

'Offensive noise', as defined under the Protection of the Environment Operations Act 1997, will not be emitted beyond the site boundary, during remedial works.

Vibrations generated during remedial works will be managed to mitigate risk of damage to structural assets and risk of amenity loss to adjacent land occupiers. Advice from geotechnical, structural or vibration consultants will be sought, if required.

16 Conclusions

Based on the assessment undertaken by Alliance of site history information, fieldwork observations and data, and laboratory analytical data, in the context of the proposed land use scenario and objectives of this project, Alliance considers that the remediation objective can be achieved and the site made suitable for the proposed land use scenario, subject to the:

- Implementation of the strategies, methodologies, plans and procedures set out in this remediation action plan, including those set out in the proposed supplementary contamination assessment works; and
- Preparation of a site remediation and validation report.

Specific assumptions that apply to the adopted land use scenario, are presented in Section 6 of this report.

This report must be read in conjunction with the *Important Information About This Report* statements at the front of this report.

17 References

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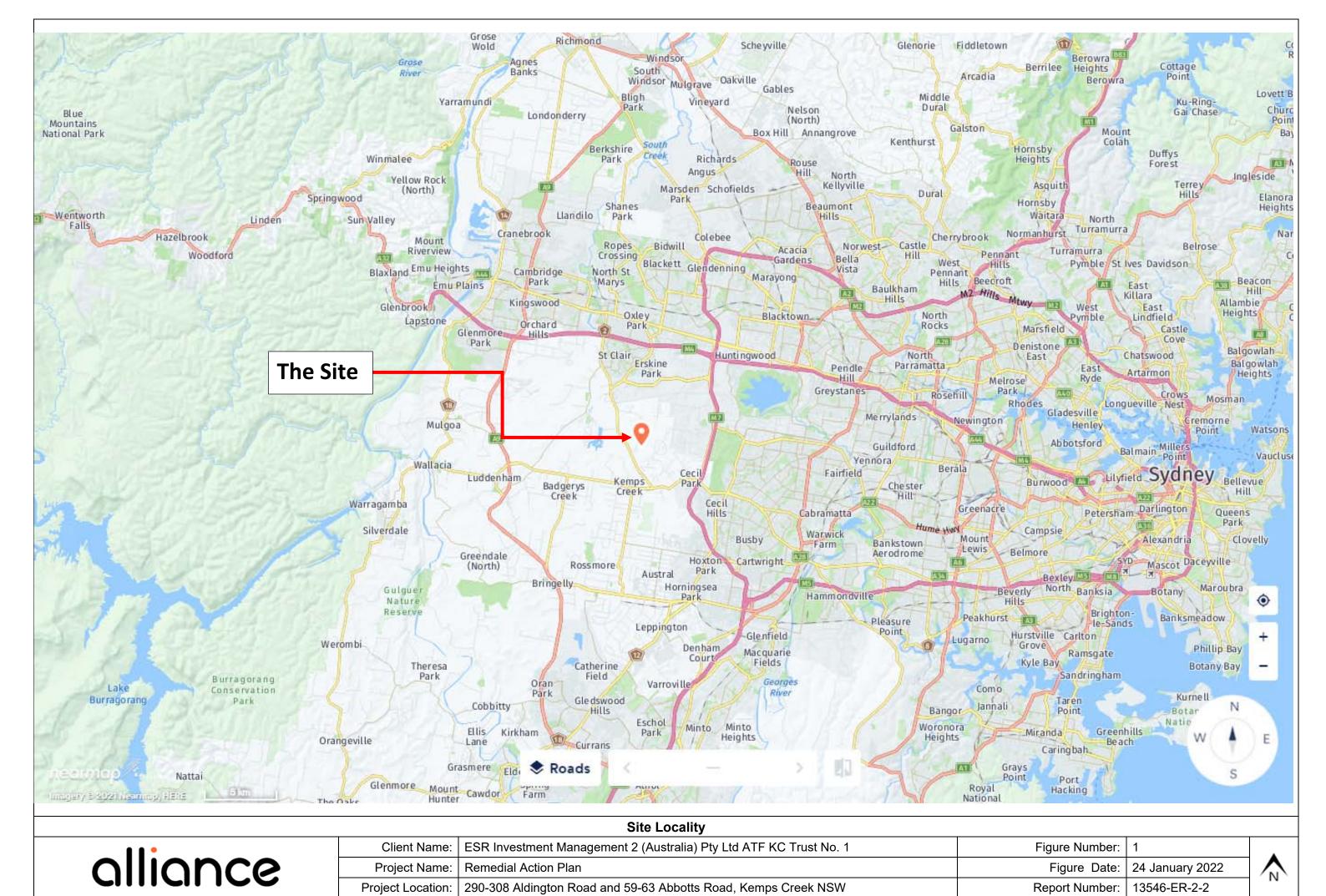
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Report No.: 13546-ER-2-2

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FIGURES







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Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	2	
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022	1
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2	Ī





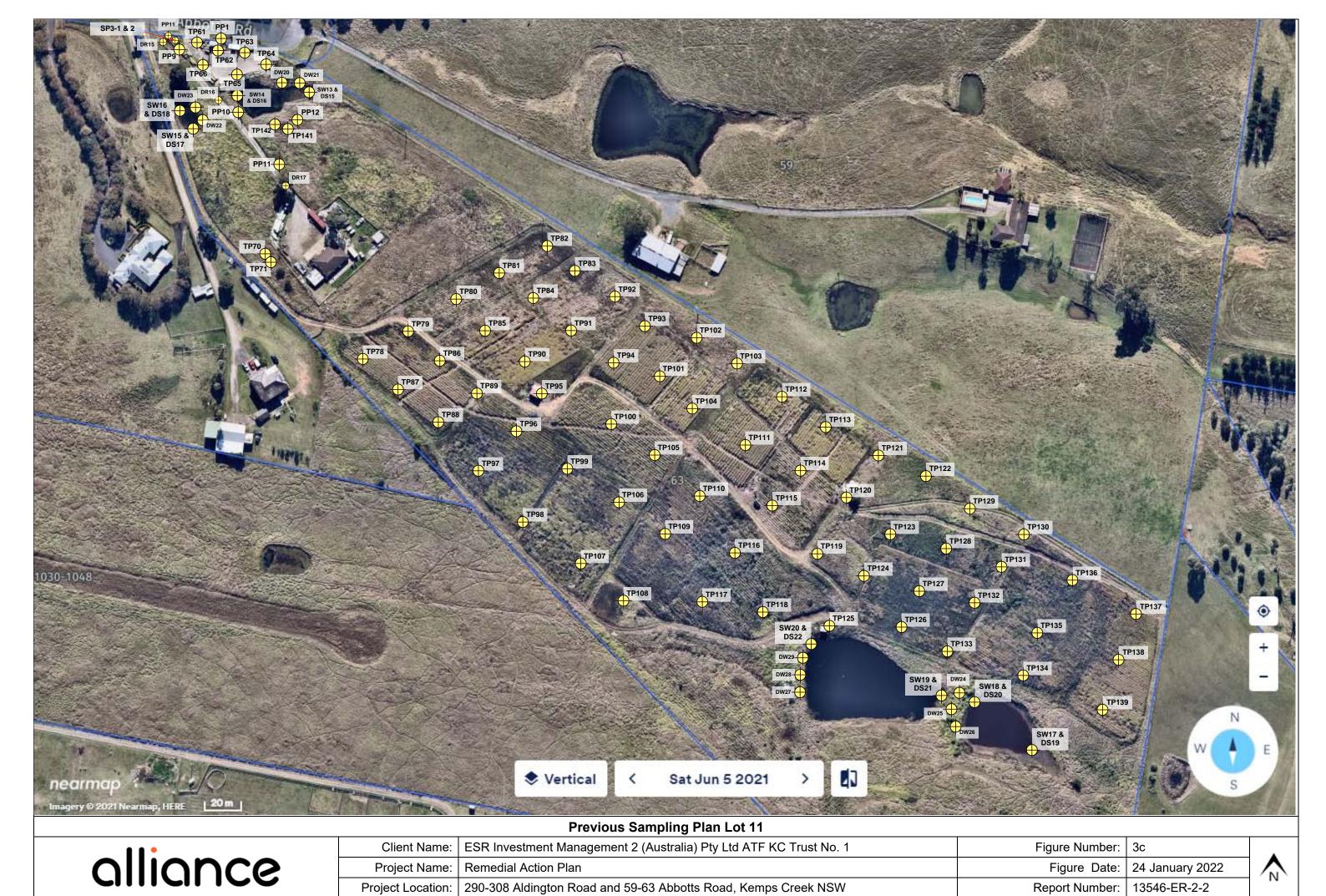


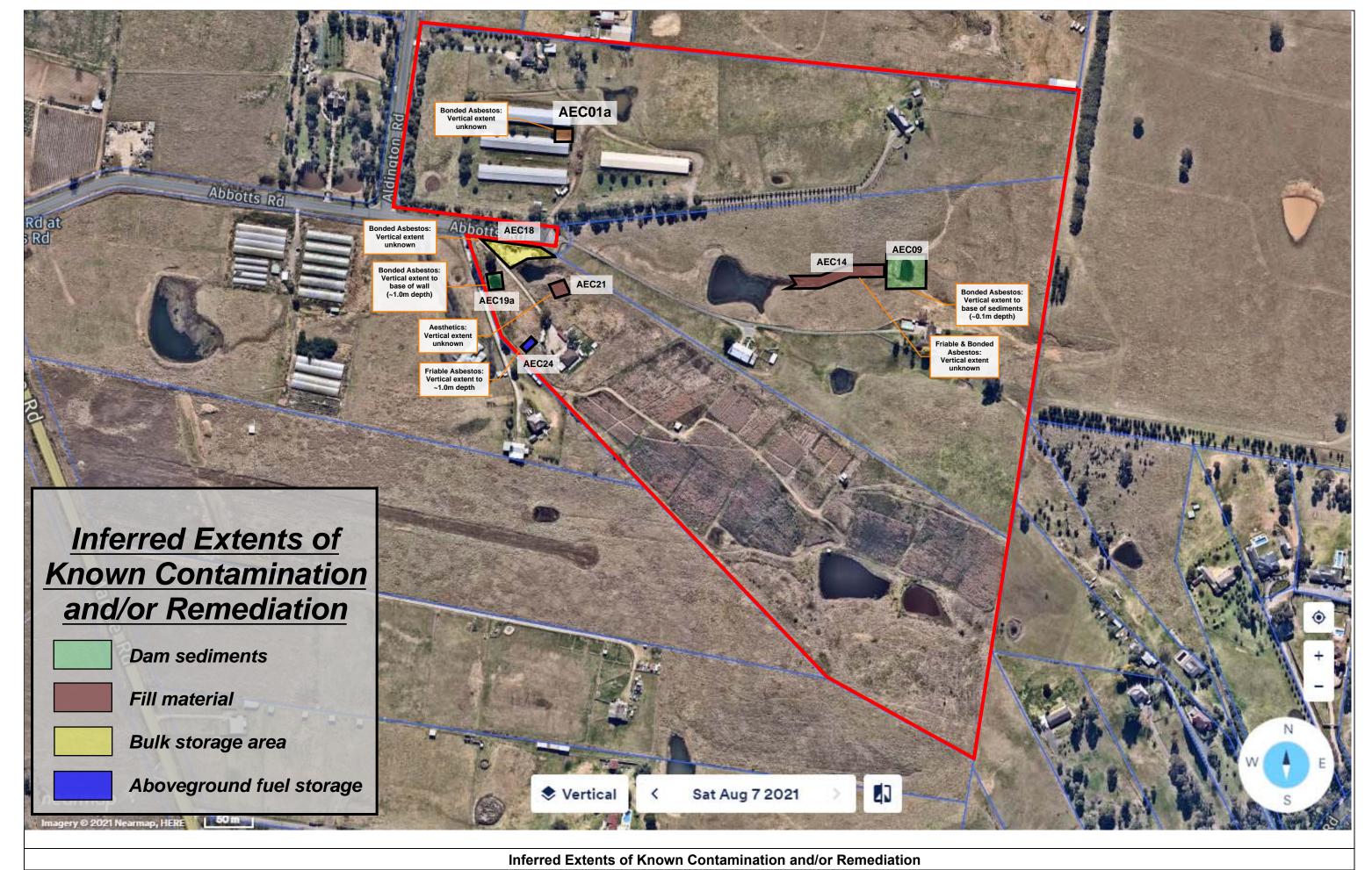
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Project Name:	Remedial Action Plan	Figure Date:	24 January 2022
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2





Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	3b
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2







Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	4
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2





Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	4	1
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022	l
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2	







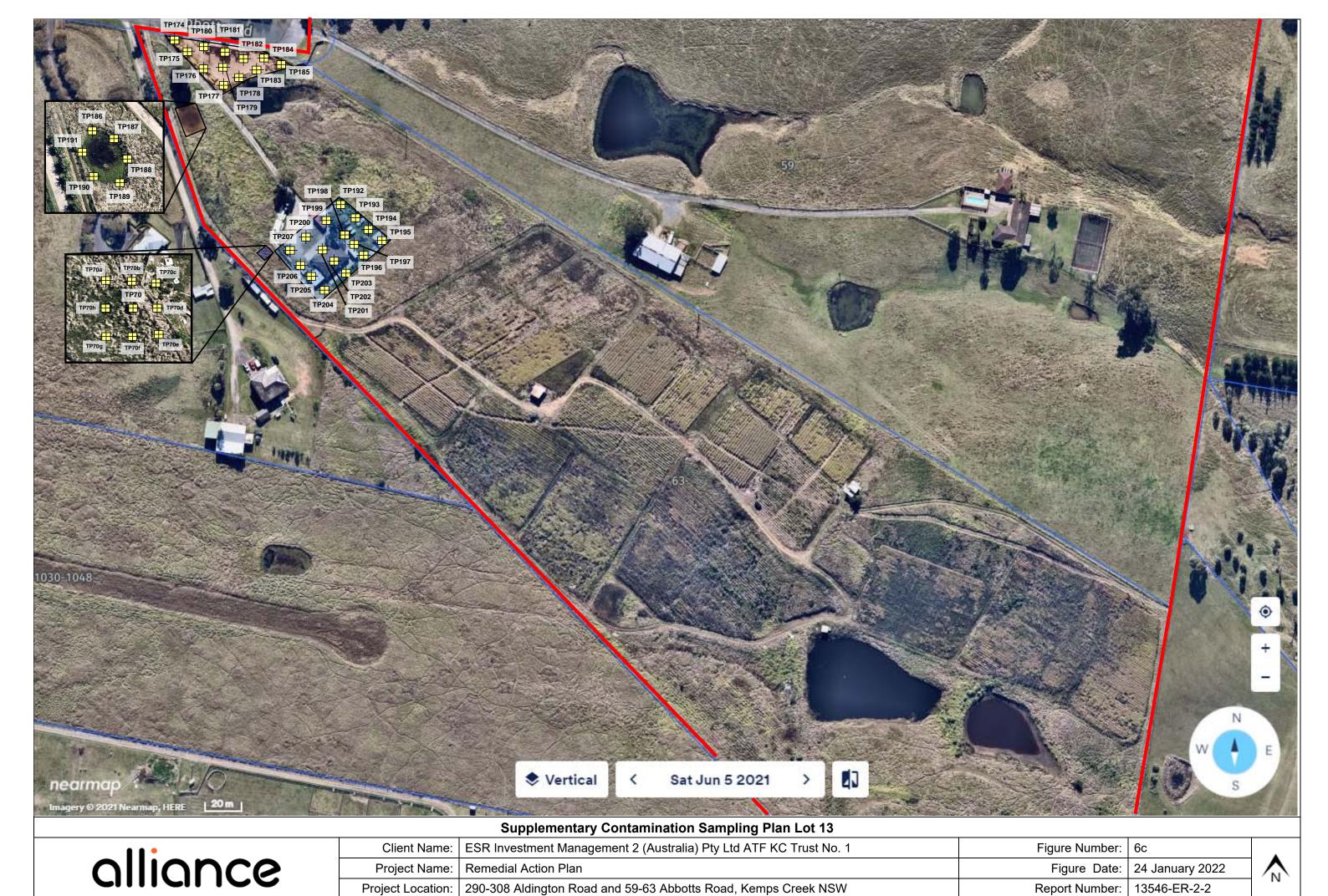
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Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	6a
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2







Client Name:	ESR Investment Management 2 (Australia) Pty Ltd ATF KC Trust No. 1	Figure Number:	6b
Project Name:	Remedial Action Plan	Figure Date:	24 January 2022
Project Location:	290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	Report Number:	13546-ER-2-2



APPENDIX A – Previous Contamination Assessment Logs and Field Records



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP01 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: JW Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks Depth (m) Gravelly sandy CLAY, brown, low plasticity, soft moist No potential asbestos containing materials, no odours or staining 0-0.02(PID:2.4ppm) Clayey SHALE with gravels and cobbles, dark grey, well graded, fine to course grained, sub-angular, slightly moist М No potential asbestos containing materials, no odours or staining 0.5 .4-0.6(PID:4.0ppm) 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP02 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY with minor gravels, brown, medium to high plasticity moist No potential asbestos containing material, no odours or staining .0-0.2(PID:2.2ppm) Test Pit TP02 terminated at 0.4m 0.5 1.0 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP03 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly sand with cobbles, light brown, well graded, fine to course grained, sub No potential asbestos containing material, no odours or staining .0-0.2(PID:2.6ppm) Silty CLAY with fine gravels, dark brown, low plasticity, slightly moist М No potential asbestos containing material, no odours or staining .4-0.6(PID:4.5ppm) Test Pit TP03 terminated at 0.6m 1.0 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP04 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Clayey SHALE with gravels and cobbles, dark grey, well graded, fine to course No potential asbestos containing material, no odours or staining grained, sub-angular, slightly moist .0-0.1(PID:0.2ppr Test Pit TP04 terminated at 0.1m 0.5 1.0 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP05 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown/orange, high plasticity, mosit No potential asbestos containing material, no odours or staining .0-0.1(PID:1.8ppr Test Pit TP05 terminated at 0.1m 0.5 1.0 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP06 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks RL Depth (m) Gravelly silty SAND with cobbles, brown, well graded, fine to course No potential asbestos containing material, no odours or staining grained, sub-angular, moist .0-0.2(PID:0.1ppm) Gravelly sandy CLAY, light brown, medium plasticity, moist М No potential asbestos containing material, no odours or staining 0.5 .8-1.0(PID:0.4ppm) Silty CLAY with fine gravels, dark brown, high plasticity, moist М No potential asbestos containing material, no odours or staining .0-1.2(PID:0.2ppm) I. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2 .2-1.4(PID:0.2ppm)_M CLAY, orange/red, high plasticty, moist No potential asbestos containing material, no odours or staining Test Pit TP06 terminated at 1.5m



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP07 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Finished: 6/10/2021

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty SAND with cobbles, brown, well graded, fine to course No potential asbestos containing material, no odours or staining grained, sub-angular, moist .0-0.2(PID:0.2ppm) No potential asbestos containing material, no CLAY, light orange with grey mottling, low to medium plasticity, moist М odours or staining .5-0.7(PID:0.3ppm) Test Pit TP07 terminated at 0.7m 1.0 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP08 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks RL Depth (m) Gravelly silty SAND with cobbles, brown, well graded, fine to course No potential asbestos containing materials, no odours or staining grained, sub-angular, moist .0-0.2(PID:0.6ppm) М No potential asbestos containing materials, no odours or staining CLAY, light brown with orange mottling, high plasticity .4-0.6(PID:0.2ppm) Test Pit TP08 terminated at 0.6m 1.0 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP09 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Finished: 6/10/2021

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks RL Depth (m) Gravelly silty SAND with cobbles, brown, well graded, fine to course No potential asbestos containing materials, no odours or staining grained, sub-angular, moist 0.0-0.2, 0.0-0.2ASB (PID:0.4ppm) .4-0.6(PID:0.2ppm<mark>)_M</mark> No potential asbestos containing materials, no CLAY, light brown with orange mottling, high plasticity odours or staining Test Pit TP09 terminated at 0.6m 1.0 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP10 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly sand with cobbles, brown, well graded, fine to course grained, sub angular, No potential asbestos containing materials, no odours or staining .0-0.2(PID:0.1ppm) CLAY, light brown, high plasticity, moist М No potential asbestos containing materials, no 3-0.4(PID:0.6ppn odours or staining Test Pit TP10 terminated at 0.4m 0.5 1.0 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP11 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Shaley CLAY, brown, low plasticity, slightly moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:0.2ppr Test Pit TP11 terminated at 0.1m 0.5 1.0 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP12 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Finished: 6/10/2021

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Shaley CLAY, brown, low plasticity, slightly moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:0.2ppr Test Pit TP12 terminated at 0.1m 0.5 1.0 1.5



T: 1800 288 188
E: office@allgeo.com.au
W: www.allgeo.com.au

TP No: TP13 Sheet: 1 of 1 Job No: 13546

Test Pit Log

	Client: ESR Australia							Started:						
		Project: Detailed Site Investigation Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktot pեւմնաներNSW							Finished: Test Pit Size: m					
ŀ	Rig Type: 5t Hydraulic Track M						Mounted Exca Male rCoordinates E, N	Driller:				Logged: SJ		
	RL	Surf	ace:	m			Contractor: O' Hara Brothers	Ве	earing:			Checked:		
	Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks		Consistency/ Density Index			
Ī	Excavation					-	FILL: Sandy CLAY: brown.		ES	М	St	FILL		
	Exca			_					ES					
				0 <u>.5</u>		-	CLAY: red brown.		ES	М	VS	t -		
				_										
				_										
				_										
-				1.0			NATURAL							
				_			Test Pit TP13 terminated at 1m							
				_										
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				1. <u>5</u>										
				_										
				_										
				_										
				2.0										
21				_										
30/11/				_										
IA.GDT				_										
JSTRAL				2 <u>.5</u>										
STD A				_										
J GINT				_										
546.GP				_										
OLE 13				3.0										
BOREH				_										
ORED				_										
1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21				3.5										



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP14 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty SAND, brown, well graded, fine to course grained, sub-angular, slightly No potential asbestos containing materials, no odours or staining .0-0.2(PID:0.2ppm) No potential asbestos containing materials, no odours or staining М CLAY, light brown with orange mottling, high plasticty, moist .5-0.7(PID:0.3ppm) 1.0 Test Pit TP14 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP15 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Sandy GRAVEL, dark grey to black, well graded, fine to course grained, sub angular, No potential asbestos containing materials, no odours or staining 0.0-0.2(PID:0.7ppm) CLAY, light brown with orange mottling, high plasticity, moist М No potential asbestos containing materials, no odours or staining .2-0.4(PID:0.7ppm) 0.5 1.0 Test Pit TP15 terminated at 1m 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP16 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Finished: 6/10/2021

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty SAND, brown, well graded, fine to course grained, sub angular, slightly No potential asbestos containing materials, no odours or staining No potential asbestos containing materials, no odours or staining CLAY, light brown with orange mottling, high plasticity, moist 1.0 Test Pit TP16 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP17 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly SAND, brown, well graded, fine to course grained, sub angular, slightly moist No potential asbestos containing material, no odours or staining .0-0.2(PID:0.7ppm) CLAY, light brown/orange with grey mottling, high plasticity, moist М No potential asbestos containing material, no odours or staining .3-0.5(PID:0.6ppm) 1.0 Test Pit TP17 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP18 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks RL Depth (m) Silty SAND with minor gravels, light brown, well graded, fine to course grained, sub No potential asbestos containing material, no odours or staining angular, slightly moist 0.0-0.2, 0.0-0.2ASB (PID0.4ppm) No potential asbestos containing material, no CLAY with fine gravels, brown/orange, high plasticity М odours or staining .5-0.7(PID:0.7ppm) 1.0 Test Pit TP18 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2' 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP19 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 7/10/2021

Finished: 7/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Clayey gravelly SHALE, brown with orange mottling, well graded, fine to course grained, sub angular No potential asbestos containing material, no odours or staining .0-0.1(PID:2.0ppr 0.5 1.0 Test Pit TP19 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP20 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 7/10/2021

Finished: 7/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty SAND with fine mulch, brown, well graded, fine to course grained, sub angular, dry No potential asbestos containing material, no odours or staining .0-0.1(PID:0.9ppr 0.5 1.0 Test Pit TP20 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP21 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 6/10/2021

Finished: 6/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Sandy CLAY, brown, low plasticity, slightly moist No potential asbestos containing material, no odours or staining .0-0.2(PID:1.0ppm) 0.5 .0-1.2(PID:2.0ppm) No potential asbestos containing material, no odours or staining М CLAY, light brown with orange mottling, high plasticity, moist .3-1.5(PID:1.3ppr Test Pit TP21 terminated at 1m



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP22 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2'

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Finished: 7/10/2021

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY with gravels, brown, low to medium plasticity, moist No potential asbestos 0.0-0.1, 0.0-0.1ASB (PID:1.6ppm) containing material, no odours or staining Gravelly CLAY, light brown with orange mottling, high plasticity mosit No potential asbestos containing material, no odours or staining 0.5 1.0 .0-1.2(PID:3.0ppm) No potential asbestos CLAY with minor gravels, dark brown, high plasticity moist М containing material, no odours or staining 1.<u>5</u> .8-2.0(PID:1.5ppm)



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP23 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2'

Client: ESR Australia Pty LtdStarted: 7/10/2021Project: Detailed Site InvestigationFinished: 7/10/2021Location: 290-308 Aldington Road and 59-63 Abbotts RoadHole Location: Refer to Figure 3.Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks RL Depth (m) Gravelly silty CLAY, light brown, low plasticity, slightly moist 0.0-0.1, BD2, BT2 (PID:1.6ppm) No potential asbestos containing material, no odours or staining CLAY with minor gravels, dark brown, high plasticity moist М No potential asbestos containing material, no odours or staining 0.5 1.0 1.0-1.2 (PID:1.4ppm) CLAY, light brown with orange mottling, high plasticity No potential asbestos containing material, no odours or staining М .5-1.7(PID:7.1ppm)



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP24 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road

Hole Location: Refer to Figure 3.

Started: 7/10/2021

Finished: 7/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty CLAY, light brown, low plasticity, slightly moist No potential asbestos containing material, no odours or staining .0-0.1(PID:4.4ppr No potential asbestos containing material, no odours or staining CLAY, light brown/orange, medium to high plasticity, moist М .5-0.7(PID:9.2ppm) 1.0 Test Pit TP24 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP25 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started: 7/10/2021

Test Pit Size: 0.3 m

Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty CLAY, light brown/grey, low plasticity, moist No potential asbestos containing material, no odours or staining .0-0.1(PID:5.2ppr No potential asbestos containing material, no CLAY with fine gravels, brown/orange, low plasticity 5-0.6(PID:7.1ppm) odours or staining Test Pit TP25 terminated at 1m 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP26 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty gravelly CLAY, brown, low plasticity No potential asbestos 0.0-0.1, 0.0-0.1ASB (PID:7.9ppm) containing materials, no odours or staining 0.5 .0-1.2(PID:8.2ppm) 1.5 No potential asbestos containing materials, no odours or staining Silty CLAY with minor gravels, dark brown, medium to high plasticity .8-2.0(PID:3.8ppm)



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP27 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia

Project: Detailed Site Investigation

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktotep & Watten NSW

Test Pit Size: m

Rig	Тур	e: 5t	Hydraulic Track Mounted Exca Male rCoordinates E, N Driller:			Logged: SJ					
RL	Sur	face:	m			Contractor: O' Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observation
tion					-	FILL: Sandy CLAY: brown (potentially reworked natural).		ES	М	S	FILL
Excavation			0. <u>5</u>					ES			
				\bowtie							
			1 <u>.0</u>		-	CLAY: brown/red, trace silt.	Н		М	VS	St NATURAL
			-					ES			
			-				H				
			_								
			_								
			1.5			Test Pit TP27 terminated at 1.5m	-				
			_			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
			_								
			_								
			_								
			2.0								
			_								
			_								
			-								
			2 <u>.5</u>								
			_								
			_								
			-								
			_								
			3 <u>.0</u>								
			_								
			_								
			_								
			3.5								



T: 1800 288 188
E: office@allgeo.com.au
W: www.allgeo.com.au

TP No: TP28 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Pro	Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktolep & Coation NSW Test Pit Size:								m			
_						/lounted Excal HolerCoordinates E, N		riller:		Logged: SJ		
		face:				Contractor: O' Hara Brothers	E	Bearing:			Checked:	
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
rtion					-	FILL: Silty CLAY: brown.		ES	М	VSt	FILL	
Excavation			- - - 0 <u>.5</u>		-	CLAY: red brown.		ES	М	VSt	NATURAL	
יין אַנוּאַ פֿטורבו ספרניין פּטוּטְיטָיט פּטוּאַן פּטוּאַ פּטוּאַ פּטוּאָן פּטוּאָר פּטוּא פּטוּא פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּא פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּאָר פּטוּא פּטוּא פּיייין פּיייין פּייין פּיין פּייין פּיין פּייין פּייין פּיין פּייין פּייין פּיין פּיין פּייין פּיין פּיין פּייין פּייין פּייין פּיין פּייין פּיייין פּיייין פּייין פּייין פּייין פּיייין פּייין פּייין פּייין פּיייין פּייין פּיייין פּיייין פּייין פּייין פּייין פּיייין פּיייין פּייייין פּיייין פּיייין פּ			- 1.0 1.5 			Test Pit TP28 terminated at 0.6m						



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP29 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **சிருட்**ணன்கோNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller: Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Silty CLAY: brown. ES ES D H NATURAL CLAY: orange/brown. 0<u>.5</u> 1.0 Test Pit TP29 terminated at 1m 1.<u>5</u> 2.0 1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21 2.5 3.0



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP30 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **Heore k வெக்க்**டிNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller: Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Silty CLAY: brown. ES ES CLAY: orange/brown. H NATURAL ES 1.0 Test Pit TP30 terminated at 1m 1.<u>5</u> 2.0 1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21 2.5 3.0



T: 1800 288 188
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TP No: TP31 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia	Started:		
Project: Detailed Site Investigation	Finished:		
Location: 290-308 Aldington Road & 59-63 Abbotts Road, Кետարև մնանաներ NSW	Test Pit Size:	m	
Rig Type: 5t Hydraulic Track Mounted Exca Male rCoordinates E, N	Driller:	Logged:	SJ

RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Additional Observations Tests Method Remarks Depth (m) RL FILL: Silty CLAY: brown, shale gravels (irrigation piping?). ES ES 0.9m, becoming moist with depth FILL: CLAY: brown/red, trace silt (potentially reworked natural?). M VSt ES ES Excavator Reached limit Test Pit TP31 terminated at 2.3m 2.5 3.0



T: 1800 288 188
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W: www.allgeo.com.au

TP No: TP32 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Pro	ject	: Det		Site In	vestiga gton F	ation Road & 59-63 Abbotts Road, Kետերև մնաննդ NSW		Starte Finish Test F	ned:		m
Rig	ј Тур	e : 5t	Hydra	aulic T	rack N	Mounted Exca Male rCoordinates E, N	D	riller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	В	earing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ation					-	Silty CLAY: brown (irrigation piping?).		ES	М	St	
Excavation			0. <u>5</u>					ES			
			- - 1 <u>.5</u>					ES			
			_		-	CLAY: brown/red, trace silt.		ES	М	VSt	
			- 2.0								
			2.0			Test Pit TP32 terminated at 2m					
NON COREC DORENCE 13048.6F3 GIN 31D AGS INALIA, GD 1 30/1 11/21			2.5 - - 3.0 - - 3.5								



1.<u>5</u>

2.0

2.5

3.0

3.5

Alliance Geotechnical Pty Ltd

T: 1800 288 188
E: office@allgeo.com.au
W: www.allgeo.com.au

TP No: TP33
Sheet: 1 of 1

W: www.allgeo.com.au Job No: 13546 **Test Pit Log** Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **சிருட்**ணன்கோNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Sandy CLAY: brown (potentially reworked natural). ES VSt NATURAL CLAY: brown/red, trace silt. М ES 0.5 Test Pit TP33 terminated at 0.6m 1.0

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP34 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **சிருட்**ணன்கோNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Sandy CLAY: brown (potentially reworked natural). ES ES M VSt NATURAL CLAY: brown/red, trace silt. ES 1.0 Test Pit TP34 terminated at 1.2m 1.<u>5</u> 2.0 1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21 2.5 3.0



T: 1800 288 188
E: office@allgeo.com.au
W: www.allgeo.com.au

TP No: TP35 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Pr	ojec		ailed S	Site In	vestigaton F	ation Road & 59-63 Abbotts Road, Kkoteրեւննան կnNSW		Starte Finish Test F	ned:		m
Ri	g Ty	pe: 5t	Hydra			∕lounted Exca l⊪ale r Coordinates E, N		iller:			Logged: SJ
RL	Sui	face:	m			Contractor: O' Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ation					-	FILL: Sandy CLAY: brown (potentially reworked natural).		ES	М	S	FILL
Excavation			- 0 <u>.5</u>					ES			
			-		-	CLAY: brown/red, trace silt.		ES	М	VSt	NATURAL
			1 <u>.0</u>								
						Test Pit TP35 terminated at 1.1m					
			_								
			-								
			1 <u>.5</u>								
			-								
			-								
			_								
			2.0								
			-								
0/11/21			-								
.GD1 3			-								
KALIA			2.5								
D AUS			-								
SIN			-								
GPJ G			-								
13546			3.0								
HOLE			-								
D BOR			-								
1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21			-								
NON .			3.5								



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP36 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **சிருட்**ணன்கோNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL Sandy CLAY. ES CLAY: with shale gravels. ES 0.5 Test Pit TP36 terminated at 0.5m 1.0 1.<u>5</u> 2.0 2.5 3.0 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP37 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia

Project: Detailed Site Investigation

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Hetotept Coation

Test Pit Size: m

						Road & 59-63 Abbotts Road, Kitotept @atition NSW		Test	Pit S	ize:	
Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Di	riller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	В	earing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observation
					-	FILL: Sandy CLAY: brown, some gravels, tile fragments (potentially reworked		ES	М	S	FILL
Excavation			-		-	natural). CLAY: brown/red, trace silt.	+		М	VS	t NATURAL
Exc			0 <u>.5</u>					ES			
			_			Test Pit TP37 terminated at 0.8m					
			1 <u>.0</u>								
			_								
			- 								
			1 <u>.5</u>								
			_								
			-								
			2 <u>.0</u>								
			_								
			-								
			2 <u>.5</u>								
			-								
			-								
			3.0								
			- -								
			3.5								



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TP No: TP38 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Pro	ject	: Det		Site In	vestig	ation Road & 59-63 Abbotts Road, K ttote pե ւ մն ան ափNSW	Start Finis Test	hed:		m
\vdash						Mounted Exca MalerCoordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ation					-	FILL: Sandy CLAY: brown, some gravels (potentially reworked natural).	ES	М	S	FILL
Excavation			- -				ES		1,00	
			0 <u>.5</u> -		-	CLAY: brown/red, trace silt.	ES	M	VSt	NATURAL
			_			Test Pit TP38 terminated at 0.8m				
			1.0 							



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TP No: TP39 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Pro	ject	: Det		Site In	vestigaton F	ation Road & 59-63 Abbotts Road, Ktote p ls.@atio lopNSW		Starte Finish Test F	ned:		m
_						Mounted Exca MalerCoordinates E, N	Dr	iller:			Logged: SJ
_		face:	-	_	_	Contractor: O' Hara Brothers		earing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
tion					-	FILL: Sandy CLAY: brown (potentially reworked natural).		ES	М	S	FILL
Excavation			- - 0 <u>.5</u>		-	CLAY: brown/red, trace silt.		ES	M	VSt	NATURAL
ין אסוי ססובר ססובר וססיטון כו מין סוד ססודים מין אינו אינו ססודים מין אינו אינו ססודים מין אינו אינו אינו אינו			- 1.0 - 1.5 			Test Pit TP39 terminated at 0.6m					



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au TP No: TP40 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road & 59-63 Abbotts Road, **சிருட்**ணன்கோNSW Test Pit Size: m Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Sandy CLAY: brown (potentially reworked natural). ES VSt NATURAL CLAY: brown/red, trace silt. М ES 0.5 Test Pit TP40 terminated at 0.6m 1.0 1.<u>5</u> 2.0 2.5 3.0 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP41 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty SAND, brown, well graded, fine to course grained, sub angular moist No potential asbestos 0.0-0.1 containing materials, no odours or staining (PID:1.5ppm) 0.5 No potential asbestos containing materials, no odours or staining CLAY, light brown/beige with orange and grey mottling, high plasticity М .9-1.0(PID:1.5ppm) Test Pit TP41 terminated at 1m 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP42 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started:

Project: Detailed Site Investigation Finished:

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty SAND, brown, well graded, fine to course grained, sub angular moist with brick No potential asbestos containing materials, no odours or staining .0-0.1(PID:3.2ppr .0-1.1(PID:1.0ppm) No potential asbestos containing materials, no odours or staining Silty CLAY, light brown with orange mottling, low plasticity, moist 4-1.5(PID:1.7ppm) 1.5 Test Pit TP42 terminated at 1m



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP43 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Finished: Project: Detailed Site Investigation Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty CLAY, dark brown, medium plasticity, moist No potential asbestos 0.0-0.1, 0.0-0.1ASB (PID:2.9ppm) containing materials, no odours or staining 0.5 .0-1.1(PID:2.ppn No potential asbestos containing materials, no odours or staining М Silty CLAY, light orang/brown, medium to high plasticity .2-1.3(PID:2.7ppn Test Pit TP43 terminated at 1m



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP44 Sheet: 1 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Sandy CLAY with gravels, low to medium plasticity, moist No potential asbestos containting materials, no odours or staining .0-0.1(PID:2.1ppr 4-0.5(PID:1.0ppm 0.5 .0-1.1(PID2.9ppn Silty CLAY, light orang/brown, medium to high plasticity, moist No potential asbestos containting materials, no М odours or staining 4-1.5(PID:1.5ppm) 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP44 Sheet: 2 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Finished: Project: Detailed Site Investigation Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, light orang/brown, medium to high plasticity, moist (continued) 0-2.1PID:1.7ppn 4-2.5(PID:5.2ppm) 2.5 Test Pit TP44 terminated at 1m 3.0 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP50 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark grey, high plasticity, wet No potential asbestos containing materials, no odours or staining .0-0.1(PID:0.6ppr W No potential asbestos containing materials, no odours or staining Shaley CLAY, light brown/orange with grey mottling, medium plasticity 0.5 5-0.6(PID:3.4ppm) 1.0 Test Pit TP50 terminated at 1m 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP51 Sheet: 1 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly sandy CLAY, brown, low to medium plasticity, moist, water at 2.0m brick, tile Potential asbestos containing materials observed, no odours or staining and PACM observed at 2.0m .0-0.1(PID:1.7ppn .0-1.1(PID:1.0ppm) 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP51 Sheet: 2 of 2 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly sandy CLAY, brown, low to medium plasticity, moist, water at 2.0m brick, tile 2.0-2.1, 2.0-2.1ASB (PID:0.9ppm) and PACM observed at 2.0m (continued) 3-2.4(PID:13ppn Test Pit TP51 terminated at 1m 3.0 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP52 Sheet: 1 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown, medium plasticity, moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:0.6ppr 0.5 5-0.6(PID:0.7ppm) Silty CLAY with minor gravels, grey, high plasticity, building materials from 1.5m and No potential asbestos containing materials, no odours or staining .0-1.1(PID:0.9ppr 1.<u>5</u> 5-1.6(PID:1.2ppm)



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP52 Sheet: 2 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY with minor gravels, grey, high plasticity, building materials from 1.5m and water at 2.0m (continued) .0-2.1(PID:3.1ppr 5-2.6(PID:0.9ppm) Test Pit TP52 terminated at 1m 3.0 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP53 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown, medium plasticity, moist No potential asbestos containing materials, no odours or staining 0-0.1(PID:0.9ppr Silty CLAY, orange/brown with grey mottling, high plasticity, moist No potential asbestos containing materials, no odours or staining 3-0.4(PID:2.1ppm) 1.0 Test Pit TP53 terminated at 1m 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP54 Sheet: 1 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown, medium plasticity, moist, water strike at 2.0m No potential asbestos containing materials, no odours or staining .0-0.1(PID:0.7ppn .0-1.1(PID:0.7ppm) 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP54 Sheet: 2 of 2 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown, medium plasticity, moist, water strike at 2.0m (continued) .0-2.1(PID:0.7ppr Sllty CLAY, light brown with orange/grey mottling, high plasticity wet No potential asbestos containing materials, no odours or staining 4-2.5(PID:0.6ppm) 2<u>.5</u> Test Pit TP54 terminated at 1m 3.0 3.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP61 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2'

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks Depth (m) Silty SAND with minor gravels, dark brown, fine to medium grained, moist No potential asbestos containing materials, no odours or staining 0-0.1(PID:5.8ppr Silty CLAY, brown with orange and grey mottling, high plasticity, moist M No potential asbestos containing materials, no odours or staining 0.5 5-0.6(PID:13.0ppm) No potential asbestos CLAY, brown, high plasticity, moist containing materials, no odours or staining .0-1.1(PID:7.2ppn Test Pit TP61 terminated at 1m 1.5



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP62 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2'

Client: ESR Australia Pty Ltd Started: Finished: Project: Detailed Site Investigation Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Material Description Tests Additional Observations Method Water Remarks Depth (m) Silty SAND with minor gravels, dark brown, fine to medium grained, moist No potential asbestos containing materials, no odours or staining 0-0.2(PID:7.0ppr Silty CLAY, brown with orange and grey mottling, high plasticity, moist M No potential asbestos containing materials, no odours or staining 0.5 5-0.6(PID:1.1ppm) M-W No potential asbestos CLAY, brown, high plasticity, moist containing materials, no odours or staining .0-1.1(PID:6.1ppn Test Pit TP62 terminated at 1m 1.5 5-1.6(PID:2.1ppm)



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Test Pit No: TP63 Sheet: 1 of 1 Job No: 13546

Test Pit Log

6					
Australia Pty	/ Ltd		Starte	ed:	
iled Site Inv	estiga	tion	Finisl	ned:	
0-308 Aldin	gton R	oad and 59-63 Abbotts Road Hole Location: Refer to Figure 3.	Test I	Pit Size:	0.3 m
		Hole Coordinates E, N	Driller:		Logged: SJ
m		Contractor: Alliance	Bearing:		Checked:
(m) Babhic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/ Density Index	Additional Observations
0.5		Silty CLAY, brown with orange and grey mottling, high plasticity, moist			No potential asbestos containing materials, no odours or staining
1.0		CLAY, brown, high plasticity, moist	0.1.1ppm/2.1ppm	M	No potential asbestos containing materials, no
			.0-1.1ppm(2.1ppn))	odours or staining
1.5		TESCULE IF OF TESTIMATE ACTUAL			
1	Depth (m)	Depth (m) Depth (n) Depth	Depth of the continue of the c	illed Site Investigation 0-308 Aldington Road and 59-63 Albiotits Road Hole Location: Refer to Figure 3. Hole Coordinates E, N m	illed Site Investigation D-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Tost Pit Size: Tost Pit Pit Pit Pit Pit Pit Pit Pit Pit Pi



T: 1800 288 188 office@allgeo.com.au W: www.allgeo.com.au

Test Pit No: TP64 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Gravelly silty CLAY, brown, high plasticity, moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:4.1ppr

0.5 Silty CLAY, dark brown, high plasticity, moist No potential asbestos containing materials, no odours or staining .0-1.1(PID:3.2ppr 1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/2' No potential asbestos containing materials, no Silty CLAY, brown with orange mottling, fine gravels, high plasticity, moist odours or staining 5-1.6(PID:3.0ppm) Test Pit TP64 terminated at 1m



T: 1800 288 188 E: office@allgeo.com.au Test Pit No: TP65 Sheet: 1 of 2

.0-1.1(PID:1.1ppm)

W: www.allgeo.com.au Job No: 13546 **Test Pit Log** Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty gravelly SAND, dark brown, well graded, fine to course grained, sun angular, moist. No potential asbestos containing materials, no odours or staining .0-0.1(PID:4.0ppr No potential asbestos Silty CLAY, brown with orange mottling, high plasticity, moist. containing materials, no odours or staining

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP65 Sheet: 2 of 2 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3.

Started:

Finished:

Test Pit Size: 0.3 m

	Тур					oad and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Hole Coordinates E, N	Driller:			0.3 m
		face:	m			Contractor: Alliance	Bearing:			Checked:
\L	Ouri	acc.	<u> </u>			Contractor. Amarico	Dearing			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation
						Silty CLAY with fine gravels, brown with orange and grey mottling, high plasticity, moist, with water entering at 2.0m	:.0-2.1(PID:1.6ppn	M)		No potential asbestos containing materials, no odours or staining
			_			Test Pit TP65 terminated at 1m				
			_							
			_							
			-							
			2 <u>.5</u>							
			-							
			_							
			_							
			-							
			3.0							
			_							
			-							
			_							
			_							
			3. <u>5</u>							
			-							
			_							
			_							
			-							
			4.0							



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP66 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd

Project: Detailed Site Investigation

Started:

Finished:

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ RL Surface: m Contractor: Alliance Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty SAND with minor gravels, dark brown, fine to medium grained, sub angular, moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:4.7ppr 0.5 No potential asbestos containing materials, no odours or staining М CLAY, orange/brown with grey mottling, high plasticity, moist .6-0.7(PID:3.1ppr 1.0 Test Pit TP66 terminated at 1m 1.<u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au

Test Pit No: TP67 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd Started: Finished: Project: Detailed Site Investigation

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m

Rig Ty							Driller:			Logged: SJ
RL Su	ırfa	ace:	m			Contractor: Alliance	Bearing:			Checked:
Method	1000	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations
Method Wethod Water	NATION AND ADDRESS OF THE PROPERTY OF THE PROP	RL (m)	Depth (m)		Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency Density Inde	Additional Observations
			1. <u>5</u> 							



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP68 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd Started:

Project: Detailed Site Investigation Finished:

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m

RL Surface: m Contractor: Alliance Bearing: Checked: Depth Fill Depth Fill Depth Fill Depth Fill Depth Fill Depth Fill Fill
1. <u>5</u>



T: 1800 288 188 E: office@allgeo.com.au W: www.allgeo.com.au Test Pit No: TP69 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd Started:

Project: Detailed Site Investigation Finished:

Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m

RL Surface: m Contractor: Alliance Bearing: Checked: Depth Fill Depth Fill Depth Fill Depth Fill Depth Fill Depth Fill Fill
1. <u>5</u>



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Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

•	CJ			.05					
CI	ient:	ESR	Austr	alia Pt	y Ltd		Start	ed:	
Pr	oject	: Det	ailed S	Site In	vestigat	tion	Finis	hed:	
Lo	catio	on: 29	90-308	3 Aldin	igton R	oad and 59-63 Abbotts Road Hole Location: Refer to Figure 3.	Test	Pit Size:	0.3 m
Ri	д Тур	oe:				Hole Coordinates E, N	Driller:		Logged: SJ
RL	. Sur	face:	m			Contractor: Alliance	Bearing:		Checked:
poų:	ter			phic Log	ssification nbol	Material Description	Samples Tests Remarks	Moisture Condition onsistency/ ensity Index	Additional Observations

Meth (m) (m) (m) (m) Grag Class Syn Silty CLAY, dark brown, medium plasticity, moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:5.8ppr No potential asbestos containing materials, no odours or staining Silty CLAY, orange/brown with grey mottling, high plasticity, moist М 3-0.4(PID:6.8ppm) 1.0 Test Pit TP70 terminated at 1m 1.5 2.0



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Test Pit Log

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA.GDT 11/23/21

Client: ESR Australia Pty Ltd Started: Project: Detailed Site Investigation Finished: Location: 290-308 Aldington Road and 59-63 Abbotts Road Hole Location: Refer to Figure 3. Test Pit Size: 0.3 m Rig Type: Hole Coordinates E, N Driller: Logged: SJ Bearing: ---RL Surface: m Contractor: Alliance Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Water Remarks Depth (m) Silty CLAY, dark brown, medium plasticity, moist No potential asbestos containing materials, no odours or staining .0-0.1(PID:5.8ppr Silty CLAY, orange/brown with grey mottling, high plasticity, moist No potential asbestos containing materials, no odours or staining 3-0.4(PID:6.8ppm 1.0 Test Pit TP71 terminated at 1m 1.5



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TP No: TP78 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates F. N. Driller: Logged: SJ

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	Nounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		,	,	7/1/N 7/	-	TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.	ES PID=3.6ppm	SM	-	TOPSOIL
Excavation			_	K K	CL-CI	Silty CLAY: low to medium plasticity, orange-brown.	PID=3.6ppm	М	-	NATURAL
Exc			_		02 01	City CE (1. low to modular) placeary, orange brown.		'''		TW TOTOLE
			_				ES			
			0 <u>.5</u>			Test Pit TP78 terminated at 0.4m				
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			3.5							



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TP No: TP79 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E. N. Driller: Logged: SJ

Rig							Driller:	iller: Logged: SJ		
RL Surface: m						Contractor: O' Hara Brothers	Bearing:	Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		()	,	71 1/2 · 7		TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.	ES	SM	-	TOPSOIL
Excavation			-	K - K	,	Silty CLAY: low to medium plasticity, orange-brown.	PID=1.0ppm	M	-	NATURAL
EXG			_							
			_				ES			
			0 <u>.5</u>			Test Pit TP79 terminated at 0.4m				
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			_							
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			-							
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			_							
			3.5							



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TP No: TP80 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldate r Coordinates E, N	Dr	iller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ion				<u>11. 11/2</u>	-	TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.		ES PID=2.2ppm	SM	-	TOPSOIL
Excavation			-	1 ' 1 1		Silty CLAY: low to medium plasticity, orange-brown.		ES	М	-	NATURAL
			0.5 - 1.0 - 1.5 - 2.0 - - - - - - - - - - - - - - - - - - -			Test Pit TP80 terminated at 0.4m					
			- 3.5								



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021

Project: Detailed Site Investigation Finished: 19/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktorp & Water NSW Test Pit Size: m

				iulic i	I ack IV	lounted Exca MalerCoordinates E, N	Driller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation				<u>, 11, 1</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.1ppm	М	-	TOPSOIL
Exc			_	10.1	CI-CH	Silty CLAY: medium to high plasticity, orange brown.	ES	-	-	NATURAL
			0.5			Test Pit TP81 terminated at 0.4m				
			_							
			_							
			1 <u>.0</u>							
			_ 							
			_							
			1 <u>.5</u>							
			_							
			_							
			2 <u>.0</u>							
			_							
			- 2 <u>.5</u>							
			_							
			-							
			3 <u>.0</u>							
			_							
			3.5							



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TP No: TP82 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldate rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			_	<u>, 11, 1</u>	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.3ppm	М	-	TOPSOIL
Ú					CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0.5			Test Pit TP82 terminated at 0.4m				
			-							
			-							
			1 <u>.0</u>							
			-							
			1 <u>.5</u>							
			-							
			-							
			2 <u>.0</u>							
			-							
			2 <u>.5</u>							
			-							
			-							
			3.0							
			- 3.5							



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TP No: TP83 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca MalerCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			_	1/ 1/2 1/2 1/ 1/1/2 1/ 1/2 1/2	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.2ppm	М	-	TOPSOIL
Ú			-		CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0 <u>.5</u>			Test Pit TP83 terminated at 0.4m				
			_							
			-							
			1 <u>.0</u> -							
			- -							
			- 1 <u>.5</u>							
			_							
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			2 <u>.5</u>							
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			3 <u>.0</u>							
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			-							
			3.5							



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TP No: TP84 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e : 5t	Hydra	aulic T	rack M	lounted Exca llate rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Moisture Condition	Consistency/ Density Index	
Excavation			_	7 77	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.3ppm	М	-	TOPSOIL
Ш			_		CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0 <u>.5</u>			Test Pit TP84 terminated at 0.4m				
			_							
			_							
			1 <u>.0</u> –							
			_							
			1 <u>.5</u>							
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TP No: TP85 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			_	<u>, 11, 11,</u> 1, 11, 1	1	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.3ppm	М	-	TOPSOIL
ú			-		CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0 <u>.5</u>			Test Pit TP85 terminated at 0.4m				
			-							
			-							
			1 <u>.0</u> -							
			-							
			- 1 <u>.5</u>							
			-							
			-							
			2 <u>.0</u>							
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			- 2 <u>.5</u>							
			-							
			-							
			3.0							
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			3.5				1	1		



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TP No: TP86 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		` '		7/ 1/V		TOPSOIL: Silty CLAY: low plasticity, brown.	П	ES	М	-	TOPSOIL
Excavation			-	1	CL	Silty CLAY: low plasticity, orange brown.	Н	PID=1.8ppm	М	-	NATURAL
Ē			0 <u>.5</u>					ES			
			1 <u>.0</u>					ES			
			- 1 <u>.5</u>					ES			
			- - 2.0		CI	Silty CLAY: medium plasticity, grey with orange.			M	-	
			- - -					ES			
!			2 <u>.5</u>				Н	ES			
						Test Pit TP86 terminated at 2.6m	Н				
			3.0			TOOL K IT OF CHIMING OF E.OH					



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TP No: TP87 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	flounted Exca Male rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/1/X 7	-	TOPSOIL: Silty CLAY: low plasticity, brown.		ES PID=2.9ppm	М	-	TOPSOIL
Excavation			_	1.11	СН	Silty CLAY: high plasticity, orange brown.		P1D-2.9pp111	М	-	NATURAL
Ш			-					ES			
			_								
						Test Pit TP87 terminated at 0.4m					
			0 <u>.5</u>								
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			_								
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TP No: TP88 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
lion				<u>71 /2</u>		TOPSOIL: Silty CLAY: low plasticity, brown.		ES PID=2.4ppm	М	-	TOPSOIL
Excavation				1	СН	Silty CLAY: high plasticity, orange brown.	H	PID=2.4ppm	М	-	NATURAL
Ě							Н	ES			
			+				Н				
						Test Pit TP88 terminated at 0.4m					
			0 <u>.5</u>								
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TP No: TP89 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	lounted Exca llate rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7 <u>1 1</u> x7		TOPSOIL: Silty CLAY: low plasticity, brown.	П	ES PID=3.7ppm	М	-	TOPSOIL
Excavation			_	1.11	CH	Silty CLAY: high plasticity, orange brown.	Н	PID=3.7ppm	M	-	NATURAL
Exc			_				Н		-		
			_					ES			
			0 <u>.5</u>			Test Pit TP89 terminated at 0.4m					
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TP No: TP90 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

IKIÓ	у Гур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/1/87.		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL
vatic v							PID=3.8ppm			
Excavation						TOPSOIL: Silty CLAY: medium plasticity, dark brown. Test Pit TP90 terminated at 0.1m	ES PID=3.8ppm	M		TOPSOIL
			3.5							



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TP No: TP91 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

I. "	giy	9e: 5t	Hydra	ulic I	rack N	founted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	_ Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7118.7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL
vatic	_						PID=4.4ppm			
Excavation						TOPSOIL: Silty CLAY: medium plasticity, dark brown. Test Pit TP91 terminated at 0.1m	ES PID=4.4ppm	M		TOPSOIL
			- - - 3.5							



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TP No: TP92 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

								Driller:			Logged: SJ		
F	RL S	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing: Checked:					
-	Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations		
					7/1/V. 7/		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL		
Ŀ	ğ Haji							PID=0.7ppm					
	Excavation						TOPSOIL: Silty CLAY: medium plasticity, dark brown. Test Pit TP92 terminated at 0.1m	ES PID=0.7ppm	M		TOPSOIL		
מסויבו מס				3. <u>0</u> 3.5									



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TP No: TP93 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

				iulic i	I ack iv	Nounted Excamaler Coordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:	_		Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		. ,	, ,	<u> </u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.0ppm	М	-	TOPSOIL
Excavation				ii iii		Test Pit TP93 terminated at 0.1m	PID=2.0ppm			
Ř			-							
			-							
			-							
			0.5							
			-							
			_							
			1.0							
			1. <u>5</u>							
			2.0							
			_							
			2. <u>5</u>							
			3.0							
			3.5					L_	L	



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TP No: TP94 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

				aulic i	I ack iv		Driller:		Logged: SJ		
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:	
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
						TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL	
avati				نننن		Test Pit TP94 terminated at 0.1m	PID=1.0ppm				
Excavation			1.0 			TopSoIL: Sitty CLAY: medium plasticity, dark brown. Test Pit TP94 terminated at 0.1m	ES PID=1.0ppm	M		TOPSOIL	
			3.5								



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TP No: TP95 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

National Objects National Ob	Logged: SJ				
S	Checked:				
S	Observations				
Test PII TP95 terminated at 0.1m					
1.0					



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TP No: TP96 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Drill								Logged: SJ		
RL	. Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:	
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
				7/1/87.		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL	
vatic							PID=3.4ppm				
Excavation						TOPSOIL: Silty CLAY: medium plasticity, dark brown. Test Pit TP96 terminated at 0.1m	ES PID=3.4ppm	M		TOPSOIL	
			- - 3.5								



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TP No: TP97 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

				iulic i	IAUKIN	Nounted Excamaler Coordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation
			,	<u> </u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.0ppm	М	-	TOPSOIL
Excavation				<i>i::</i> i:i:		Test Pit TP97 terminated at 0.1m	PID=1.0ppm			
EX			_							
			_							
			_							
			0 <u>.5</u>							
			_							
			_							
			_							
			_							
			1.0							
			_							
			1 <u>.5</u>							
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			2 <u>.0</u>							
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			2 <u>.5</u>							
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			-							
			3.0							
			-							
			-							
			-							
			-							
			3.5							



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TP No: TP98 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

				iulic I	rack IV		Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				71 1/2 · 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL
avati				نننذ		Test Pit TP98 terminated at 0.1m	PID=1.6ppm			
Excavation			1.5 			Test Pit TP98 terminated at 0.1m	ES PID=1.6ppm			
			3.5							



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TP No: TP99 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

				aulic 1	rack N	Nounted Excallater Coordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation
		,	, ,	<u> </u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.1ppm	М	-	TOPSOIL
Excavation				<i>i:::i:</i> :		Test Pit TP99 terminated at 0.1m	PID=3.1ppm			
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			2 <u>.0</u>							
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			_							
			2 <u>.5</u>							
			2.5							
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			_							
			3.0							
			-							
			-							
			-							
			-							
			3.5							



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TP No: TP100 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Drille	r:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Beari	ng:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	F	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			_	14 14 1 14 14 14 14 14 14 14 14 14 14 14 14 14 1	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	Р	ID=1.2ppm	М	-	TOPSOIL
Û			_		CI-CH	Silty CLAY: medium to high plasticity, light brown with grey mottle.		ES	-	-	NATURAL
			0.5			Test Pit TP100 terminated at 0.4m	1				
			0.3								
			_								
			_								
			_								
			1.0								
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			1. <u>5</u>								
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			-								
			2 <u>.0</u>								
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			2 <u>.5</u>								
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			_								
			3.0								
			_	<u> </u> 							
			-								
			-								
			-								
			3.5								



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TP No: TP101 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

RL Surface	· m				Driller: Bearing:			Checked:
CE Surface				Contractor. O Flara Diothers				Checked.
Method Water	_ Dept	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		<u>7, 1, 7, 17</u>	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL
Excavation		1	CH	Silty CLAY: high plasticity, light brown with grey mottling.	PID=1.9ppm	М	-	NATURAL
Ĭ	0.5				ES			
	1. <u>(</u>							
			CL	Sandy Gravelly CLAY: low plasticity, light brown/grey.	ES	М	-	
	2 <u>.c</u>	5		Test Pit TP101 terminated at 1.2m				



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TP No: TP102 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

rig Type. Striyura	lic Track Mounted Exca Male rCoordinates E, N	Driller:	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers	Bearing:	Checked:
Method RL Depth (m) (m)	Graphic Log Olassification Symbol Waterial Description	Samples entry to the state of t	Oousistency Additional Observations Additional Observations
	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES M	- TOPSOIL
Excavation	CH Silty CLAY: high plasticity, light brown.	PID=1.5ppm M	- NATURAL
1. <u>0</u>	Test Pit TP102 terminated at 1.2m		



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TP No: TP103 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller:										Logged: SJ				
RL S	urf	ace:	m			Contractor: O' Hara Brothers	Ве	aring:			Checked:				
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations				
$\overline{}$				7/ 1/Z		TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES PID=1.0ppm	М	-	TOPSOIL				
avati			+	1	CH	Silty CLAY: high plasticity, orange brown.		PID=1.0ppm	М	-	NATURAL				
EX			4					ES							
Excavation			0.5 - 1.0 - 1.5 - 2.0 - 3.0		5	Test Pit TP103 terminated at 1.2m		ES	M		NATURAL				
			- 3.5												



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TP No: TP104 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydrai	lic Track Mounted Exca Male r Coordinates E, N	Driller:	Logged : SJ		
RL Surface: m	Contractor: O' Hara Brothers	Bearing:	Checked:		
Method RL Depth (m) (m)	Graphic Log OCIassification OCIAssification Waterial Description	Samples Tests Remarks Wordshord	X Dugas Additional Observations		
	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES M -	TOPSOIL		
Excavation	CH Silty CLAY: high plasticity, light brown with grey mottling.	PID=1.7ppm M -	NATURAL		
1. <u>0</u>	Test Pit TP104 terminated at 1.2m				



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TP No: TP105 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig 1	g Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller:						iller:	Logged : SJ				
RL S	urf	ace:	m			Contractor: O' Hara Brothers	Ве	aring:	Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
				7/1/8 .7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	\dagger	ES	М	-	TOPSOIL	
Excavation			-	1	CH	Silty CLAY: high plasticity, light brown with grey mottling.	Н	PID=1.8ppm	М	-	NATURAL	
Ä			-					ES				
			1.0 - 1.5 			Test Pit TP105 terminated at 1.2m						
			- 3.5									



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TP No: TP106 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller:									Logged: SJ	
RL Su	rfac	:e: r	n			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	F (r	RL m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
$\overline{}$	+			Z1 /N . Z		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=4.2ppm	М	-	TOPSOIL
Excavation			+	(::i	СН	Silty CLAY: high plasticity, light brown with grey mottling.	PID=4.2ppm	М	-	NATURAL
Exc			-				ES			
			0.5 1.0 1.5 2.0 3.0 3.5			Test Pit TP106 terminated at 1.2m	ES			



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TP No: TP107 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e: 5t	Hydra	aulic T	rack N	lounted Exca Male rCoordinates E, N		ller:	Logged: SJ		
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation
		()	, ,	711/2 .Z		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES	М	-	TOPSOIL
Excavation			-	Will.	CH	Silty CLAY: high plasticity, light brown with grey mottling.	+	PID=2.7ppm	М	-	NATURAL
EXC			- -					ES			
			0 <u>.5</u>								
			_								
			1 <u>.0</u>								
			-			Test Pit TP107 terminated at 1.2m					
			-								
			1 <u>.5</u>								
			_								
			2.0								
			-								
			_								
			2 <u>.5</u>								
			-								
			-								
			3 <u>.0</u>								
			-								
			3.5								



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TP No: TP108 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

RL Surface: m Contractor: O'Hara Brothers Bearing: Samples Tests Remarks RL Depth (m) Dept		- Consistency/	Checked: Additional Observations TOPSOIL 13.3kg NATURAL
	n M	-	TOPSOIL 13.3kg
TOPSOIL: Silty CLAY: medium plasticity, dark brown. ES PID=2.2ppr CI-CH Silty CLAY: medium to high plasticity, brown.	1		
To CI-CH Silty CLAY: medium to high plasticity, brown.		-	NATURAL
	_		INATURAL
ES ES			
Test Pit TP108 terminated at 0.4m			
0.5			
1.0			
1.5			
2.0			
2.5			
3.0			
3.5			



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TP No: TP109 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldate rCoordinates E, N	Dril	ler:	Logged: SJ			
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	ring:	Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
				<u>71 /z</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES DID 4.7	М	-	TOPSOIL 13.0kg	
Excavation			+	1 1 1 1		Silty CLAY: medium to high plasticity, orangey brown.	+	PID=1.7ppm	М	-	NATURAL	
ă			+				\vdash					
			4				\perp	ES				
						Test Pit TP109 terminated at 0.4m	-					
			0 <u>.5</u>									
			_									
			_									
			1.0									
			1 <u>.5</u>									
			1.0									
			1									
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			-									
			-									
			2.0									
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			3.0									
			7									
			7									
			+									
			_									
			3.5									



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TP No: TP110 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Dri	iller:				
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:	Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
				<u>71 /v</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES	М	-	TOPSOIL 12.5kg	
Excavation				1 1 1		Silty CLAY: medium to high plasticity, orangey brown.	+	PID=3.8ppm	М	-	NATURAL	
EX			-				Н		-			
			-				Н	ES				
						Test Pit TP110 terminated at 0.4m	-					
			0 <u>.5</u>									
			4									
			1.0									
			1 <u>.5</u>									
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			-									
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			3.5									



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TP No: TP111 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	g Type: 5t Hydraulic Track Mounted Exca Mole rCoordinates E, N Driller:						ler:			Logged: SJ	
RL	Surf	face:	m			Contractor: O'Hara Brothers	Bea	ring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1 ^N 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES PID=2.0ppm	М	-	TOPSOIL 12.3kg
Excavation			-	(: : id.	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	Н	PID=2.0ppm	М	-	NATURAL
Ä			_								
			_				Ш	ES			
			0.5			Test Pit TP111 terminated at 0.4m					
			_								
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			1 <u>.0</u>								
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			1 <u>.5</u>								
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			3.0								
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			ა.5						<u> </u>		



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TP No: TP112 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	Type: 5t Hydraulic Track Mounted Exca Høle rCoordinates E, N Driller:					Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1 ^N 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.1ppm	М	-	TOPSOIL 12.6kg
Excavation			-	(: : id.	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	PID=1.1ppm	М	-	NATURAL
Ä			_							
			_				ES			
			0.5			Test Pit TP112 terminated at 0.4m				
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			_							
			1 <u>.5</u>							
			1 <u>.0</u>							
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			3.5							



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	g Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller:					ller:			Logged: SJ		
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7 <u>1 1</u> . 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES PID=1.2ppm	М	-	TOPSOIL 12.1kg
Excavation			-	1	CI-CH	Silty CLAY: medium to high plasticity, light grey/brown.	Н	PID=1.2ppm	М	-	NATURAL
Ä			_				Н				
			_				Ш	ES			
						T. (D) TD404					
			0.5			Test Pit TP113 terminated at 0.4m					
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			3.5								



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TP No: TP114 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021 Project: Detailed Site Investigation Finished: 20/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	ј Тур	e: 5t	5t Hydraulic Track Mounted Exca Mele r Coordinates E, N Driller:					Logged: SJ		
RL	Surf	face:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		,	,	<u> 21 12</u> . <u>7</u>	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.2ppm	М	-	TOPSOIL 12.9kg
Excavation			_			Silty CLAY: medium to high plasticity, light grey/brown.	PID=1.2ppm	M	-	NATURAL
Exc			_		0. 0	emy on the man to high placeday, aging groups of the		ļ		
			_				ES			
			0 <u>.5</u>			Test Pit TP114 terminated at 0.4m				
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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	e: 5t Hydraulic Track Mounted Exca Mele rCoordinates E, N Driller:							Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1 ^N 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.4ppm	М	-	TOPSOIL 13.2kg
Excavation			-	(: : id.	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	PID=2.4ppm	М	-	NATURAL
Ĕ			_							
			_				ES			
						Total Distributed Associated and Associated				
			0.5			Test Pit TP115 terminated at 0.4m				
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TP No: TP116 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Dri	iller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
$\overline{}$				<u>71 /v</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	Ħ	ES	М	-	TOPSOIL 13.5kg
Excavation			+	1 1 1		Silty CLAY: medium to high plasticity, orangey brown.	+	PID=1.3ppm	М	-	NATURAL
EX			-				Н		-		
			-				Ш	ES			
-						Test Pit TP116 terminated at 0.4m	-				
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TP No: TP117 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldate rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>71 /v</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	T	ES	М	-	TOPSOIL 12.4kg
Excavation			+	1 1 1		Silty CLAY: medium to high plasticity, orangey brown.	++	PID=3.8ppm	М	-	NATURAL
ă			-				\vdash		-		
			-				Ш	ES			
						Test Pit TP117 terminated at 0.4m	-				
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			3.5								



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Test Pit Log

Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations
ion				71/2	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES PID=1.5ppm	М	-	TOPSOIL 12.1kg
Excavation			-	1.11	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	Н	PID=1.5ppm	М	-	NATURAL
ă			-				Н		-		
			_					ES	-		
						Test Pit TP118 terminated at 0.4m			-		
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TP No: TP119 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Maile rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations
				7 <u>1 1</u> . 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES	М	-	TOPSOIL 13.4kg
Excavation			-	1.11	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	Н	PID=1.6ppm	М	-	NATURAL
ă			-				Н	ES	-		
			-				Н				
						Test Pit TP119 terminated at 0.4m	1				
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Test Pit Log

Client: ESR Australia Started: 20/10/2021

Project: Detailed Site Investigation Finished: 20/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktorp & Water NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ RL Surface: m Contractor: O'Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Silty CLAY: high plasticity, brown, with minor gravels. FILL 14.7kg PID=1.8ppm CI-CH Silty CLAY: medium to high plasticity, grey with orange mottle. M NATURAL 0<u>.5</u> ES Clayey SHALE: grey. ES ES ES 1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21 2.5 ES Test Pit TP120 terminated at 2.6m 3.0



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

RL Surface: m Contractor: O'Hara Brothers Bearing: Checked: Value Val	Riç	ј Тур	e: 5t	Hydra	ulic T	rack M	flounted Exca Male rCoordinates E, N	Driller:				Logged: SJ
1.5 1.5 2.5 1.70 2.5	RL	Sur	face:	m			Contractor: O'Hara Brothers	Bearing:				Checked:
PID=1.4ppm	Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Tes	sts	Moisture Condition	Consistency/ Density Index	Additional Observations
CLCH Sky CLAY medium to high plasticity, orangey brown. ES	tion				711/2	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	DID-	ES 1.4ppm	М	-	TOPSOIL 13.0kg
1.5 	cava			_			Silty CLAY: medium to high plasticity, orangey brown.	PID-	т.4ррпі	М	-	NATURAL
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10 							Test Pit TP121 terminated at 0.4m					
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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 20/10/2021

Project: Detailed Site Investigation Finished: 20/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Interpretable NSW Test Pit Size: m

				iulic i	I ack iv	Contractory Oll loss Brothers	Driller:			Logged: SJ
RL	Suri	face:	m			Contractor: O'Hara Brothers	Bearing:	1		Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>x1 1/2</u> . <u>x</u>	-	TOPSOIL: Sandy CLAY: low plasticity, brown, with minor gravels.	ES	SM	-	TOPSOIL 13.6kg
Excavation				1.11	CL	Silty CLAY: low plasticity, brown.	PID=0.8ppm	SM	-	NATURAL
Exo			-							
							ES			
			0.5			Test Pit TP122 terminated at 0.4m				
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TP No: TP123 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	lounted Exca ldaterCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>7/ /×</u> . <u>7</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL 13.2kg
Excavation			-	1.14		Silty CLAY: medium to high plasticity, orangey brown.	PID=3.0ppm	М	-	NATURAL
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			_				ES			
			_			Test Pit TP123 terminated at 0.4m	<u> </u>			
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TP No: TP124 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	aulic T	rack M	lounted Exca llate rCoordinates E, N	Dril	ler:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	ring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1 ^N 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES PID=4.1ppm	М	-	TOPSOIL 12.9kg
Excavation			-	(: : id.	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	Н	PID=4.1ppm	М	-	NATURAL
Ä			_								
			_				Ш	ES			
			0.5			Test Pit TP124 terminated at 0.4m					
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TP No: TP125 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	lounted Exca ldaterCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u> </u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	TOPSOIL 13.6kg
Excavation			-	1.14		Silty CLAY: medium to high plasticity, orangey brown.	PID=2.2ppm	М	-	NATURAL
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			_				ES			
						Test Pit TP125 terminated at 0.4m	1			
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TP No: TP126 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldate rCoordinates E, N	Dril	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>71 /7</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES	М	-	TOPSOIL 12.1kg
Excavation				1 1 1		Silty CLAY: medium to high plasticity, orangey brown.	╫	PID=1.1ppm	М	-	NATURAL
ă			-				\vdash		-		
			-					ES			
						Test Pit TP126 terminated at 0.4m	-				
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TP No: TP127 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 21/10/2021 Project: Detailed Site Investigation Finished: 21/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL :	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		()	. ,	1 1/2 · 1/2		TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES	SM	-	TOPSOIL 13.8kg
Excavation			-	KK	CL	Silty CLAY: low plasticity, brown.	PID=2.6ppm	SM		NATURAL
Exc			_		-			-		
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			0.5			Test Pit TP127 terminated at 0.4m				
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			1 <u>.5</u>							
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			2.0	1						
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			_							
			-							
			_							
			2.5							
			_							
			_	1						
			-	1						
			-							
			3.0							
			-							
			-							
			-							
			_							
			3.5							



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TP No: TP128 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	founted Exca Male rCoordinates E, N	Drill	er:			Logged: SJ
RL	Surf	face:	m			Contractor: O'Hara Brothers	Bea	ring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1/N . 7		TOPSOIL: Silty CLAY: low plasticity, dark brown.		ES PID=2.8ppm	SM	-	TOPSOIL 13.5kg
Excavation			-	(· · · · · ·	CL	Silty CLAY: low plasticity, brown.	Н	PID=2.8ppm	SM	-	NATURAL
Ä			_								
			_					ES			
						T. (D) TD000					
			0.5			Test Pit TP128 terminated at 0.4m					
			_								
			_								
			_								
			1 <u>.0</u>								
			-								
			_								
			_								
			_								
			1. <u>5</u>								
			_								
			-								
			-								
			2.0								
			_								
			_								
			_								
			_								
			2 <u>.5</u>								
			_								
			-								
			-								
			-								
			3 <u>.0</u>								
			-								
			_								
			_								
			_								
			3.5								
			5.0								



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TP No: TP129 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca Maile rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		. ,	· /	7 <u>11</u> X7	-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES ES	SM	-	TOPSOIL 12.9kg
Excavation			-	1	CL	Silty CLAY: low plasticity, brown.	PID=3.4ppm	SM	-	NATURAL
Ě			_				ES			
			_					-		
						Test Pit TP129 terminated at 0.4m				
			0 <u>.5</u>							
			-							
			_							
			_							
			-							
			1. <u>0</u>							
			-							
			_							
			_							
			_							
			1 <u>.5</u>							
			-							
			_							
			_							
			2 <u>.0</u>							
			2.0							
			_							
			_							
			_							
			2 <u>.5</u>							
			_							
			_							
			_							
			3.0							
			_							
			_							
			3.5							



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TP No: TP130 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 21/10/2021 Project: Detailed Site Investigation Finished: 21/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Dril	ller:			Logged: SJ
RL:	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observation
		()	()	7/ 1× ·7	-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	\mathbf{H}	ES PID=1.8ppm	SM	-	FILL 12.2kg
Excavation			-	()	CL	Silty CLAY: low plasticity, dark brown.	+	PID=1.8ppm	SM	-	NATURAL
Exc			- -								
			0.5				\vdash	ES			
			- -								
			-		-	Silty Gravelly SHALE: light brown to grey.	1		-	-	-
			-								
			1.0				Н	ES			
			-				H				
			-		-	Silty SHALE: grey.	1		-	-	-
			-								
			-								
			1.5				П	ES			
			-				\perp				
			-								
			-								
			2 <u>.0</u>								
			2.0				П	ES			
\exists						Hard Refusal Test Pit TP130 terminated at 2.1m					
			-								
			-								
			2 <u>.5</u>								
			-								
			3.0								
			_								
			_								
			_								
			_								
			3.5								



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TP No: TP131 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 21/10/2021 Project: Detailed Site Investigation Finished: 21/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e: 5t	Hydra	aulic T	rack N	founted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL :	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		. ,	,	71 1/N . 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	М	-	FILL 13.0kg
Excavation			-	K . K		Silty CLAY: medium to high plasticity, brown.	PID=1.5ppm	M	-	NATURAL
Exc			_			,		-		
			_				ES			
			0 <u>.5</u>			Test Pit TP131 terminated at 0.4m				
			_							
			-							
			_							
			_							
			1 <u>.0</u>							
			_							
			_							
			_							
			1 <u>.5</u>							
			1.0							
			_							
			_							
			_							
			-							
			2.0							
			_							
			_							
			_							
			2.5							
			_							
			_							
			-							
			-							
			3.0							
			_							
			_							
			_							
			3.5							



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TP No: TP132 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca ldaterCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>71 /z</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES BID 4.0	М	-	FILL 12.4kg
Excavation			+			Silty CLAY: medium to high plasticity, brown.		PID=4.0ppm	М	-	NATURAL
EX			+				\vdash		1		
			-				\vdash	ES			
						Test Pit TP132 terminated at 0.4m	-				
			0 <u>.5</u>			, , , , , , , , , , , , , , , , , , ,					
			1.0								
			7								
			4.5								
			1. <u>5</u>								
			-								
			4								
			-								
			-								
			2.0								
			2.5								
			-								
			-								
			-								
			3.0								
			4								
			4								
			4								
			3.5								



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TP No: TP133 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	lounted Exca llate rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1 ^N 7		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.4ppm	М	-	FILL 12.0kg
Excavation			-	(: : id.	CI-CH	Silty CLAY: medium to high plasticity, brown.	PID=1.4ppm	М	-	NATURAL
Ä			_							
			_				ES			
			0.5			Test Pit TP133 terminated at 0.4m				
			_							
			-							
			-							
			1 <u>.0</u>							
			-							
			_							
			_							
			_							
			1. <u>5</u>							
			_							
			-							
			-							
			-							
			2.0							
			_							
			_							
			_							
			2.5							
			-							
			-							
			-							
			_							
			3. <u>0</u>							
			_							
			_							
			_							
			3.5							
			3.5		I		I	1		



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TP No: TP134 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca MalerCoordinates E, N	Dr	iller:			Logged: SJ
RL :	Surf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ion				<u>71 /z</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES	М	-	FILL 13.3kg
Excavation			+			Silty CLAY: medium to high plasticity, brown.		PID=2.2ppm	М	-	NATURAL
X			+				\vdash	F0	1		
			+				H	ES			
			-			Test Pit TP134 terminated at 0.4m	-				
			0 <u>.5</u>								
			1.0								
			1								
			1 <u>.5</u>								
			-								
			4								
			4								
			4								
			2.0								
			2.5								
			1								
			-								
			-								
			-								
			3.0								
			4								
			4								
			3.5							L	



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TP No: TP135 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Dr	iller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u>71 /7</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.		ES DID 4.8	М	-	FILL 12.8kg
Excavation			+			Silty CLAY: medium to high plasticity, brown.	H	PID=1.8ppm	М	-	NATURAL
ă			+				Н	F0			
			-				Н	ES			
						Test Pit TP135 terminated at 0.4m	-				
			0 <u>.5</u>			, , , , , , , , , , , , , , , , , , ,					
			1.0								
			٦								
			, -								
			1 <u>.5</u>								
			4								
			-								
			4								
			4								
			2.0								
			4								
			2.5								
			٦								
			1								
			-								
			3.0								
			+								
			4								
			4								
			4								
			3.5								



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TP No: TP136 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca llate rCoordinates E, N	Dri	iller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1/N		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	П	ES	М	-	FILL 13.6kg
Excavation			-	1	CI-CH	Silty CLAY: medium to high plasticity, brown.	Н	PID=1.7ppm	М	-	NATURAL
Exc			-				Н	ES	-		
			-				Н		-		
						Test Pit TP136 terminated at 0.4m	+				
			0 <u>.5</u>								
			-								
			-								
			_								
			_								
			1 <u>.0</u>								
			_								
			_								
			_								
			_	-							
			1 <u>.5</u>								
			_	_							
			_								
			_								
			_								
			2.0								
			_								
			_								
			_								
			_								
			2 <u>.5</u>								
			_								
			_								
			_								
			_								
			3 <u>.0</u>								
			_								
			_								
			_								
			_								
			3.5								



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TP No: TP137 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 21/10/2021 Project: Detailed Site Investigation Finished: 21/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

				aulic i	rack i	Mounted Exca Mate rCoordinates E, N	Driller:			Logged: SJ
RL :	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observations
_				<u>7, 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.5ppm	М	-	TOPSOIL 13.0kg
Excavation			-	1	CH	Silty CLAY: high plasticity, orangey brown.	PID=2.5ppm	М	-	NATURAL
Ē			0 <u>.5</u>							
							ES			
			_							
			1.0				ES			
			_		CH	Silty CLAY: high plasticity, orangey brown with grey mottle.		М	-	
			- - 1 <u>.5</u>							
			1.5				ES			
			_							
			-		CI	Silty CLAY: medium plasticity, grey.	_	M	-	_
			2.0				ES			
			- -							
			-							
			2.5					-		
						Test Pit TP137 terminated at 2.6m	ES	_		
			_			TOOL K. T. TOT COMMINATOR ALL Z. OH				
			_							
			3.0							
			1							
			-							
			-							
			-							
			-							
			3.5					L		



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TP No: TP138 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 21/10/2021 Project: Detailed Site Investigation Finished: 21/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	ј Тур	e : 5t	Hydra	aulic T	rack M	lounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	face:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		()	()	<u> </u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=5.8ppm	М	-	TOPSOIL 13.1kg
Excavation			-	('''	СН	Silty CLAY: high plasticity, orangey brown.	PID=5.8ppm	M	-	NATURAL
Exc					011	City OE (1. high placetory, orange) brown.		"		TW TOTOLE
							ES			
			0.5							
			+							
			4							
			-							
			1.0							
			1.5							
			1 <u>.5</u>							
			-							
			4							
			4							
			2.0							
			7							
			-							
			2 <u>.5</u>							
_						Test Pit TP138 terminated at 2.6m				
			4							
			3.0							
			+							
			+							
			4							
			4							
			3.5							



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TP No: TP139 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

R	ig 7	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Mate rCoordinates E, N	Dri	iller:			Logged: SJ
R	LS	urf	ace:	m			Contractor: O'Hara Brothers	Ве	aring:			Checked:
N 4 0 4 10 0 11	Memod	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
					<u>71 /7</u>		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	Ħ	ES	М	-	TOPSOIL 14.2kg
1	Excavation			+	1	СН	Silty CLAY: high plasticity, orangey brown.	Н	PID=3.6ppm	М	-	NATURAL
									ES			
				0 <u>.5</u>								
				1 <u>.0</u>								
				1 <u>.5</u>								
				2 <u>.0</u>								
				2 <u>.5</u>			Test Pit TP139 terminated at 2.6m					
				3.0								
				3.5								



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TP No: TP141 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 18/10/2021 Project: Detailed Site Investigation Finished: 18/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e: 5t	Hydra	aulic I	rack N	/lounted Exca l⊮ale r Coordinates E, N	Driller:				Lo	gged: SJ
RL	Surf	ace:	m			Contractor: O'Hara Brothers	Bearing	:			Ch	ecked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Te	nples ests narks	Moisture Condition	Consistency/	Add	itional Observatio
					-	FILL: Sandy Gravelly CLAY: low plasticity, brown.	- DID	ES =3.2ppm	М	-	FILL	13.6kg
Excavation			- - -		-	FILL: Gravelly CLAY: high plasticity, grey/brown with heavy black staining, geo fabric+brick throughout, mild odour.	PID	-3.2ррт	W	-	FILL	17.2kg
			0 <u>.5</u> -				PID:	ES =2.5ppm				
			1 <u>.0</u>									
			1 <u>.5</u>		CI-CH	CLAY: medium to high plasticity, orangey brown, with fine gravels.		ES	М	-	NATU	RAL
						Test Pit TP141 terminated at 1.6m						
			_									
			-									
			2.0									
			_									
			2.5									
			_									
			-									
			-									
			-									
			3.0									
			-									
			-									
			-									
			-									



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TP No: TP142 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 18/10/2021 Project: Detailed Site Investigation Finished: 18/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Ny iy	ype	: 5t	Hydra	aulic T	rack N	/lounted Exca l⊮ale r Coordinates E, N	Driller:	Logged: SJ		
RL Sui	ırfa	ce:	m			Contractor: O'Hara Brothers	Bearing:			Checked:
Method Water		RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observ
		,	()		-	FILL: Sandy Gravelly CLAY: low plasticity, brown.	ES PID=3.9ppm	М	-	FILL 13.1kg
Excavation			-		-	FILL: Gravelly CLAY: high plasticity, black, geo fabric+brick throughout, mild	PID=3.9ppm	W	-	FILL 17.0kg
Exc			- 0 <u>.5</u> - - - 1 <u>.0</u>			odour.	ES PID=2.9ppm			
			- - 1 <u>.5</u>		CI-CH	CLAY: medium to high plasticity, orangey brown, with fine gravels.	-	M	-	NATURAL
			_			Test Pit TP142 terminated at 1.6m	ES			
			2.0 - - 2.5 - - 3.0 -							



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TP No: ASB10 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

							Drill	ler:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bea	ring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
tion					CH	Silty CLAY: high plasticity, dark grey.		ES	W	-	Filled with water
Excavation N	M N N N N N N N N N N N N N N N N N N N		(m)			Silty CLAY: high plasticity, dark grey. Test Pit ASB10 terminated at 0.1m		ES			Filled with water
			3.5								



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 15/10/2021

Project: Detailed Site Investigation Finished: 15/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Heolip & Coation NSW Test Pit Size: m

	RIG Type: 5t Hydraulic Track Mounted Exca MolerCoordinates E, N RL Surface: m Contractor: O' Hara Brothers							Driller:			Loggea: SJ		
R	LS	urfa	ice:	m			Contractor: O' Hara Brothers	Bearing:			Checked:		
M 0+1	nocina	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture	Consistency/ Density Index	· Additional Observations		
_	_					-	FILL: Silty Gravelly CLAY: high plasticity, brown.	ES	М	-	FILL		
1000	<u>a</u>	-			****		NATURAL Test Pit ASB11 terminated at 0.1m	1 2					
	Ш			0 <u>.5</u>									
				- - 1 <u>.0</u>									
				- - 1 <u>.5</u>									
				2 <u>.0</u>									
				- 2 <u>.5</u> -									
				3.0									
				3.5									



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TP No: ASB12 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	ig Type: 5t Hydraulic Track Mounted ExcaMolerCoordinates E, N Driller:						ller:	Logged: SJ				
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bea	aring:		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations	
Excavation			- -		-	FILL: Gravelly Silty CLAY: medium to high plasticity, brown.		ES	M	-	FILL heavy PACM, construction waste, and tyres	
			0. <u>5</u> 1. <u>0</u>					ES				
			- - - 1 <u>.5</u>			1.0m, with orange mottling.		ES	W			
						Due to water filling hole Test Pit ASB12 terminated at 2m						
			- - 2 <u>.5</u>									
			3.0									
			- - 3.5	-								



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Test Pit Log

Client: ESR Australia Started: 15/10/2021

Project: Detailed Site Investigation Finished: 15/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Having & Coation NSW Test Pit Size: m

ı		face:					earing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			- - 0 <u>.5</u>		CI	FILL: Silty CLAY: medium plasticity, dark brown.	ES	M	-	FILL
			1.0		CI	Silty CLAY: medium plasticity, dark brown.				NATURAL
			2.0			Test Pit ASB13 terminated at 1.5m				
			2.5							
			3.0							



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TP No: ASB14 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 15/10/2021 Project: Detailed Site Investigation Finished: 15/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

	Trydraulio Traok i	Mounted Exca Male rCoordinates E, N	Driller:	Logged: SJ
RL Surface:	m	Contractor: O' Hara Brothers	Bearing:	Checked:
Method (w) Nater (m) TA	(w) https://discommons.com/discommons/discom	Material Description	Samples entitle Samples Tests Remarks	X Appul Additional Observations
		TOPSOIL: Silty CLAY: medium plasticity, dark brown.	FS M -	NATURAL
Excavation Excavation	1.0 2.5 	TOPSOIL: Silty CLAY: medium plasticity, dark brown. NATURAL Test Pit ASB14 terminated at 0.1m	ES M -	NATURAL NATURAL



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Test Pit Log

Client: ESR Australia Started: 15/10/2021

Project: Detailed Site Investigation Finished: 15/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktorp & Water NSW Test Pit Size: m

		face:				Contractor: O' Hara Brothers	earing:			Checked:
Method	Water		Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
ıtion					CI	Silty CLAY: medium plasticity, dark brown.	ES	М	-	NATURAL
Excavation			0.5		СН	Silty CLAY: high plasticity, dark brown.	ES	M	-	
			1.0 - 1.5 - 2.0				ES			
			- - - 2.5			2.0m, with orange mottling.	ES			
			3.0			Test Pit ASB15 terminated at 2.5m				



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TP No: DR01 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 06/10/2021 Project: Detailed Site Investigation Finished: 06/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

RL	Sur	face:	-			Contractor: O' Hara Brothers	Bearing:	-			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	s s	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation			_		-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown, with cobbles.	ES PID=1.6	ppm	M	-	Concrete gravels
Exc			- _		-	FILL: CLAY: high plasticity, brown, with fine gravel.			М	-	FILL
			0 <u>.5</u>				ES PID=1.4	ppm			
			_		СН	CLAY: high plasticity, brown/beige with orange mottling.			М	-	NATURAL
			_				ES PID=0.7	ppm			
			1.0			Test Pit DR01 terminated at 1m					
			-			Test Fit DNOT terminated at IIII					
			_								
			1 <u>.5</u>								
			<u>-</u>								
			-								
			2 <u>.0</u>								
			- _								
			-								
			2 <u>.5</u>								
			- _								
			_								
			3.0								
			-								
			_								
			3.5								



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TP No: DR02 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 06/10/2021 Project: Detailed Site Investigation Finished: 06/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation			-		-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, light brown, with cobbles.	ES PID=0.3ppm	М	-	Concrete gravels
Û			-		-	FILL: Silty CLAY: low plasticity, dark brown, with fine gravel.	ES	SM	-	FILL
			0 <u>.5</u>		CL-CI	CLAY: low to medium plasticity, light brown/beige, with orange and grey mottling.	ES PID=0.3ppm	M	-	NATURAL
			- -					-		
			1.0			Test Pit DR02 terminated at 1m				
			-							
			_							
			-							
			1 <u>.5</u>							
			<u></u>							
			_							
			2.0							
			_							
			_							
			-							
			-							
			2.5							
			_							
			_							
			3.0							
			_							
			_							
			-							
			_							
			3.5							



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TP No: DR03 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 06/10/2021 Project: Detailed Site Investigation Finished: 06/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Mounted Excal Maile rCoordinates E, N	Dril	ler:		Logged: S		
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bea	ring:			Checked:	
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation	
Excavation			-		-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, light brown, with cobbles.		ES PID=0.3ppm	M	-	FILL Concrete gravels	
ώ			- -		-	FILL: Sandy CLAY: low to medium plasticity, brown, with fine gravel.		ES PID=0.4ppm	М	-		
			0 <u>.5</u> -		СН	CLAY: high plasticity, light orange/red.		ES PID=0.3ppm	М	-	NATURAL	
			1 <u>.0</u>					тъ с.орри				
			- -		СН	CLAY: high plasticity, light brown with orange and grey mottling.			М	-		
			1 <u>.5</u>									
			- - -					ES				
			2.0			Test Pit DR03 terminated at 2m						
			- - -									
			2 <u>.5</u>									
			- -									
			3 <u>.0</u>									
			- -									
			3.5									



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TP No: DR04 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 07/10/2021 Project: Detailed Site Investigation Finished: 07/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

	Rig Type: 5t Hydraulic Track Mounted ExcaMaterCoordinates E, N Driller:							Logged: SJ				
RL S	Surf	ace:	m			Contractor: O' Hara Brothers	Be	aring:			Checked:	
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations	
					-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.		ES PID=3.4ppm	D	-	FILL	
Excavation			-	XXXX	-	SHALE: grey.	\dagger	ES	D	-	BEDROCK	
-ŭ 						Refusal Test Pit DR04 terminated at 0.2m	+					
			-			Test Pit DR04 terminated at 0.2m						
			_									
			0.5									
			_									
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			_									
			_									
			1 <u>.0</u>									
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			_									
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			1 <u>.5</u>									
			2 <u>.0</u>									
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			2 <u>.5</u>									
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			_									
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			-									
			3 <u>.0</u>									
			-									
			_									
			_									
			_									
			3.5									



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TP No: DR05 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 07/10/2021 Project: Detailed Site Investigation Finished: 07/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E. N. Driller: Logged: SJ

Rig	Тур	e : 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL:	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation:
Excavation			-		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	ES PID=3.1ppm	D	-	FILL
			_		CL	CLAY: low plasticity, brown with orange mottling.	ES PID=4.2ppm	SM	-	NATURAL
			0.5			Test Pit DR05 terminated at 0.4m				
			0.0	1						
			-							
			-							
			_							
			10	1						
			1.0	1						
			-	-						
			_							
				1						
			1. <u>5</u>	1						
			-							
			_							
			-	1						
			-	1						
			2.0	1						
			_							
			-	1						
			-	-						
			2.5							
			_							
			-							
			-	1						
			-							
			3.0							
			_]						
			-	1						
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			-							
			3.5							



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TP No: DR06 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Driller:				Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing: -	-			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Sample Tests Remark	es <s< td=""><td>Moisture Condition</td><td>Consistency/ Density Index</td><td>Additional Observations</td></s<>	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation			-		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	PID=5.2	2ppm	М	-	FILL
			0.5		СН	CLAY: high plasticity, brown/beige, with fine gravel.	ES PID=6.5	5 5ppm	М	-	NATURAL
			0.5			Test Pit DR06 terminated at 0.5m					
			-								
			-								
			_								
			-								
			1 <u>.0</u>	.							
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			_								
			1 <u>.5</u>								
			_								
			_								
			2 <u>.0</u>								
			-								
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			-								
			2.5								
			_								
			-								
			-								
			-								
			3.0								
			-								
			-								
			_								
			_								
			3.5								



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Ria 1	Γvp	e : 5t	Hvdra			Nounted Excaliater Coordinates E, N	Driller:			Logged: SJ
		ace:				Contractor: O' Hara Brothers	Bearing:			Checked:
	Water		Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	
Excavation			-		-	FILL: Gravelly SANDSTONE: coarse grained, sub-angular, light brown/beige.	ES PID=2.3ppm	SM	-	FILL
			0.5		CH	CLAY: high plasticity, brown/beige, with fine gravel. Test Pit DR07 terminated at 0.5m	ES PID=5.4ppm	М	-	NATURAL
			- - -							
			1 <u>.0</u> -							
			1 <u>.5</u>							
			2 <u>.0</u>							
			2 <u>.5</u>							
			3.0							
			3.5							



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TP No: DR08 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 07/10/2021 Project: Detailed Site Investigation Finished: 07/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcalerCoordinates E, N Driller: Logged: SJ

Rig	ј Тур	e: 5t	Hydra	aulic T	rack N	Nounted Excallater Coordinates E, N	Dr	iller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Be	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
		. ,	,		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	\dagger	ES DID=4.0mm	SM	-	FILL
Excavation			-	$\langle\!\langle x \rangle\!\langle$	CI	CLAY: medium plasticity, light brown/orange.	Ħ	PID=4.0ppm ES PID=4.0ppm	SM	-	NATURAL
Ě						Test Pit DR08 terminated at 0.2m	+	PID=4.0ppm			
			_								
			_								
			0 <u>.5</u>								
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			1.0								
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			3.5								



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TP No: DR11 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	ounted Exca Mate rCoordinates E, N	Dr	iller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Ве	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
tion					-	FILL: Gravelly CLAY: high plasticity, grey.		ES PID=5.9ppm	М	-	FILL
Excavation			-	XXX	CI-CH	CLAY: medium to high plasticity, orange brown.		ES	М	-	NATURAL
<u> </u>			_			Test Pit DR11 terminated at 0.2m					
			_								
			_								
			0.5								
			-								
			_								
			_								
			_								
			1.0								
			_								
			_								
			_								
			1 <u>.5</u>								
			2.0								
			2.5								
			_								
			=								
			_								
			3 <u>.0</u>								
			3.0								
			_								
			-								
			_								
			_								
			3.5								



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Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 13/10/2021

Project: Detailed Site Investigation Finished: 13/10/2021

Location: 290-308 Aldington Road & 59-63 Abbotts Road, Ktorept Coation NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted Exca**Mate**rCoordinates E, N Driller: Logged: SJ

RL Surface: m Contractor: O' Hara Brothers Bearing: ---Checked: Classification Symbol Samples Graphic Log Additional Observations Material Description Tests Method Remarks Depth (m) RL FILL: Gravelly CLAY: high plasticity, grey. ES Excavation PID=2.1ppm CI-CH CLAY: medium to high plasticity, orange brown. М NATURAL ES Test Pit DR12 terminated at 0.2m 0.5 1.0 1.<u>5</u> 2.0 2.5 3.0 3.5



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TP No: DR13 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 13/10/2021 Project: Detailed Site Investigation Finished: 13/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates F. N. Driller: Logged: SJ

Rig	ј Тур	e: 5t	Hydra	aulic T	rack M	founted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				<u> 11/x</u> . <u>1</u>	-	FILL: Silty Gravelly CLAY: medium to high plasticity, dark brown.	ES	М	-	FILL
Excavation			_			CLAY: medium to high plasticity, orange brown.	PID=3.2ppm ES	М	-	NATURAL
- ă						Test Pit DR13 terminated at 0.2m		+		
			1.5 2.0 2.5 3.0			Test Pit DR13 terminated at 0.2m				
			3.5							



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TP No: DR14 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 13/10/2021 Project: Detailed Site Investigation Finished: 13/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates F. N. Driller: Logged: SJ

Riç	ј Тур	e: 5t	Hydra	aulic T	rack M	founted Exca Male r Coordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
					-	FILL: Gravelly CLAY: high plasticity, dark brown.	ES PID=6.6ppm	М	-	FILL
Excavation			_	$\langle\!\langle\!\langle\!\langle$	CH	Silty CLAY: high plasticity, brown, with fine gravel.		М	-	NATURAL
<u> </u>							ES			
			1.5 2.0 2.5 3.0			Test Pit DR14 terminated at 0.2m				
			- 3.5							



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TP No: DR15 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Mounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Moisture Condition	Consistency/ Density Index	
Excavation					-	FILL: Silty Gravelly CLAY: low to medium plasticity, brown.	ES PID=1.4ppm	M	-	FILL
					CI	Silty CLAY: medium plasticity, brown/grey with orange mottling.		М	-	NATURAL
			0.5			Test Pit DR15 terminated at 0.5m	ES			
			1. <u>0</u>			Test Pit DR15 terminated at 0.5m				
			2.0							
			- 2 <u>.5</u> -							
			3.0							
			3.5							



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TP No: DR16 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E. N. Driller: Logged: SJ

Rig Iy	/pe:	5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL Sur	rfac	e: ı	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method Water	; ; ; ; (RL m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation			0.5		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, light brown, well-graded, full of concrete and bricks.	ES PID=2.8ppm	SM	-	FILL
			1 <u>.0</u>		-	FILL: Silty CLAY: medium plasticity, dark grey.		M	-	
			1. <u>5</u>				ES PID=2.6ppm			
			2.5		CI-CH	Silty CLAY: medium to high plasticity, light brown with grey mottling. Test Pit DR16 terminated at 2m		M	-	NATURAL Water falling from 2.0m



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TP No: DR17 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 19/10/2021 Project: Detailed Site Investigation Finished: 19/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N Driller: Logged: SJ

Rig i y	ype	e: 5t	Hydra	aulic T	rack N	Nounted Exca Male rCoordinates E, N	Dril	ller:			Logged: SJ
RL Su	ırfa	ace:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method Water	vvatei	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observation
Excavation			- - 0. <u>5</u>		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, light brown, well-graded, full of concrete and bricks.		ES PID=2.3ppm	SM	-	FILL
			1. <u>0</u>		СН	CLAY: high plasticity, light brown with orange, red mottling.		PID=1.6ppm	М	-	NATURAL
			1.5 - - 2.0 - - 2.5 - - 3.0 - - 3.5			Test Pit DR17 terminated at 1.2m					



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TP No: PP1

Sheet: 1 of 1 Job No: 13546

Test Pit Log

KIG T	ype	: 5t H	Hydra	ulic T	rack N	Nounted Exca liater Coordinates E, N	Driller:			Logged: SJ
RL Su	urfa	ce: n	n			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
tion					-	FILL: Silty Gravelly CLAY: low to medium plasticity, brown.		М	-	FILL Surface Grah
Excavation			0.5 			Test Pit PP1 terminated at 0.1m				Surface Grab



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TP No: PP2

Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 13/10/2021 Project: Detailed Site Investigation Finished: 13/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E. N. Driller: Logged: SJ

a		ck Mounted Exca Male r Coordinates E, N	Driller:	Logged: SJ
KL Sur	face: m	Contractor: O' Hara Brothers	Bearing:	Checked:
Method Water	RL Depth (m) (m)	Material Description	Samples Tests Remarks Remarks	Additional Observations
		L-CI Silty CLAY: low to medium plasticity, brown.	M -	
Excavation				



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TP No: PP3 Sheet: 1 of 1 Job No: 13546

Test Pit Log

Client: ESR Australia Started: 13/10/2021 Project: Detailed Site Investigation Finished: 13/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, KHolep & வெக்க்ற NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E. N. Driller: Logged: SJ

O6-		aulic i	rack N	Mounted Exca Mate rCoordinates E, N	Driller:			Logged: SJ
KL Suria	ace: m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method Water	RL Depth	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations
				Silty CLAY: low to medium plasticity, brown.		М	-	
Excavation M	(m)			Sity CLAY: low to medium plasticity, brown. Test Pit PP3 terminated at 0.1m				



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Sheet: 1 of 1
Job No: 13546

Test Pit Log

Rig	Тур	e: 5t	Hydra	aulic T	rack N	Mounted Exca Male rCoordinates E, N	Dri	ller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Be	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/	Additional Observations
tion				<u>1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1</u>		TOPSOIL: Sandy Gravelly CLAY: low plasticity, brown.		ES PID=1.7ppm	М	-	TOPSOIL
Excavation			- - -		CI	CLAY: medium plasticity, light brown.		PID=1./ppm	M	-	NATURAL
			0 <u>.5</u>				H				
			- -					ES			
			1 <u>.0</u>		CI	CLAY: medium plasticity, grey.			M	-	
			-					ES			
			- - -		CL	Shaly CLAY: low plasticity, grey.			M	-	
			1 <u>.5</u>				П	ES			
			- - 2.0								
			<u> </u>			Political		ES			
			- - 2.5 - - 3.0 - - - 3.3.0			Refusal Test Pit PP4 terminated at 2.1m					



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TP No: PP5 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M		Driller:			Logged: SJ
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks		Consistency/ Density Index	Additional Observations
tion					CL-CI	Silty CLAY: low to medium plasticity, brown.		М	-	
Excavation Me	Wa Wa	<u> </u>	Depin (m)			Sitty CLAY: low to medium plasticity, brown. Test Pit PP5 terminated at 0.1m				
			- - 3.5							



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TP No: PP6 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Ri	д Тур	oe: 5t	Hydra	aulic T	rack N	Mounted Exca Male rCoordinates E, N	Driller:			Logged: SJ
RL	Sur	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
Excavation			_		-	FILL: Clayey SAND: fine to coarse grained, sub-rounded, well graded, brown, with minor gravel.	ES PID=1.8ppm	М	-	FILL
Ĕ			_ _		-	Gravelly Sandy CLAY: low plasticity, brown.	_	М	-	
			0.5							
							ES PID=1.2ppm			
			_							
			1 <u>.0</u>							
			_				ES PID=2.0ppm	-		
			_							
			1 <u>.5</u>				ES			
			- -							
			-							
			2 <u>.0</u>				ES	-		
			_		CL-CI	CLAY: low to medium plasticity, light brown with orange and gey mottling.		SM	-	NATURAL
			-				ES			
_			2.5			Test Pit PP6 terminated at 2.5m	ES PID=3.3ppm			
			_ _							
			-							
			3 <u>.0</u>							
			_							
			_ _							
			3.5							



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TP No: PP7

Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Rig	Тур	e: 5t	Hydra	ulic T	rack M	lounted Exca Male rCoordinates E, N	Driller:			Logged: SJ	
RL	Surf	ace:	m			Contractor: O' Hara Brothers	Bearing:	Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks		Consistency/ Density Index		
Excavation			_	1/ 1/ 1/ 1/ 1/ 1/		TOPSOIL: Silty CLAY: medium to high plasticity, dark brown.	ES PID=2.3ppm	М	-	TOPSOIL	
					CH	CLAY: high plasticity, light brown with orange and gey mottling.	ES PID=0.8ppm	М	-	NATURAL	
			0.5			Test Pit PP7 terminated at 0.5m	PID=0.8ppm				
			1 <u>.0</u> 1 <u>.5</u> -			Test Fit FF / Tellimated at 0.5ml					
			- 2 <u>.0</u> -								
			- 2 <u>.5</u> - -								
			3. <u>0</u> 3.5								



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TP No: PP8 Sheet: 1 of 1

Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Client: ESR Australia Started: 12/10/2021 Project: Detailed Site Investigation Finished: 12/10/2021 Location: 290-308 Aldington Road & 59-63 Abbotts Road, ենթեւնար NSW Test Pit Size: m

Rig Type: 5t Hydraulic Track Mounted ExcaMalerCoordinates E, N **Driller:** Logged: SJ

				aulic i	rack IV	lounted Exca Male rCoordinates E, N		ller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bea	aring:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description		Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
				7/ 1/V . 7/	-	TOPSOIL: Silty CLAY: medium to high plasticity, dark brown.	П	ES	М	-	TOPSOIL
Excavation			-	1	CI-CH	Shaly CLAY: low to medium plasticity, grey to dark grey.	H	PID=2.0ppm ES	М	-	NATURAL
-X						Test Pit PP8 terminated at 0.2m	H				
			_								
			_								
			0 <u>.5</u>								
			_								
			_								
			_								
			1 <u>.0</u>								
			_								
			_								
			_								
			_								
			1 <u>.5</u>								
			_								
			_								
			-								
			-								
			2.0								
			_								
			_								
			_								
			2 <u>.5</u>								
			_								
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			3 <u>.0</u>								
			-								
			_								
			3.5								
			0.0				1				<u> </u>



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TP No: PP9 Sheet: 1 of 1 Job No: 13546

Test Pit Log

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Kig	Тур	e: 5t	Hydra	ulic T	rack M		Driller:			Logged: SJ
RL	Surf	face:	m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
ioi					CL-CI	Gravelly CLAY: low to medium plasticity, brown.		М		Surface Grab
Excavation Met	Wat	R(E)	Depth (m)			Gravelly CLAY: low to medium plasticity, brown. Test Pit PP9 terminated at 0.1m			80	
			3.5							



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TP No: PP10 Sheet: 1 of 1 Job No: 13546

Test Pit Log

	ype.	: 5t H	lydra	ulic T	rack N	Nounted Exca llaterCoordinates E, N	Driller:			Logged: SJ
RL Su	urfac	ce: m	n			Contractor: O' Hara Brothers	Bearing:			Checked:
Method Water	Water	RL D	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	· Additional Observations
					CI	Silty CLAY: medium plasticity, brown.		М	-	Surface Grab
Excavation			0.5 			Test Pit PP10 terminated at 0.1m				



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TP No: PP11 Sheet: 1 of 1 Job No: 13546

Test Pit Log

ייש ואו	ype: 5	5t Hydra	aulic T	rack N	Nounted Exca Mate rCoordinates E, N	Driller:			Logged: SJ
RL Sur	urface:	: m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method Water	RL (m)	Depth	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
			11	CI	Silty CLAY: medium plasticity, brown.		М	-	Surface Grab
Excavation		1.5 			Test Pit PP11 terminated at 0.1m				



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TP No: PP12 Sheet: 1 of 1 Job No: 13546

Test Pit Log

-5.7	ype:	5t Hydra	aulic 1	rack N	Nounted Exca Mate rCoordinates E, N	Driller:			Logged: SJ
RL Sur	urface	e: m			Contractor: O' Hara Brothers	Bearing:			Checked:
Method Water	NA (m	L Depth	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/ Density Index	Additional Observations
			1	CI	Silty CLAY: medium plasticity, brown.		М	-	Surface Grab
Excavation		1.5 			Test Pit PP12 terminated at 0.1m				

Report No.: 13546-ER-2-2

APPENDIX B – Previous Contamination Assessment Laboratory Summary Tables

			Asbestos Health	Laboratory Results			On-site gravimetric results				
Sample ID	Date Sampled	Asbestos Health Screening Level NEPM ASC 2013 (% w/w) HIL A - FA/AF	Screening Level NEPM ASC 2013 (% w/w) HIL A - Bonded ACM	Asbestos Detected/ Non-Detected	Percentage of AF/FA <7mm, %w/w	Percentage of Bonded ACM >7mm (500ml), %w/w	Weight of Sample (10L), kg	Onsite weight of ACM fragment >7mm, kg	Laboratory weight of ACM fragment >7mm, kg	Percentage of Bonded ACM >7mm (10L), %w/w	
TP1 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.5	-	-	-	
TP2 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.8	-	-	-	
TP3 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.7	-	-	-	
TP4 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.8	-	-	-	
TP5 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.9	-	-	-	
TP6 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.1	-	-	-	
TP7 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.8	-	-	-	
TP8 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.1	-	-	-	
TP9 0.0-0.1	6/10/2021	0.001%	0.05%	Chrysotile asbestos detected.	-	-	14.7	0.056	-	0.0571%	
TP10 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.9	-	-	-	
TP11 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-	
TP12 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-	
TP14 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.1	-	-	-	
TP15 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-	
TP16 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.7	-	-	-	
TP17 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.4	-	-	-	
TP18 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.2	-	-	-	
TP19 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-	
TP20 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	6.8	-	-	-	
TP21 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.5	-	-	-	
TP22 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.8	-	-	-	
TP23 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.6	-	-	-	
TP24 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-	
TP25 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-	
TP26 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.8	-	-	-	
DR01 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.5	-	-	-	
DR02 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.9	-	-	-	
DR03 0.0-0.1	6/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.5	-	-	-	
DR04 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.8	-	-	-	
DR05 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.2	-	-	-	
DR06 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-	
DR07 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	=	16.6	-	=	-	
DR08 0.0-0.1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.5	-	-	-	
SP1-1	7/10/2021	0.001%	0.05%	No asbestos detected.	-	-	7.6	-	-	-	

Legend

Highlighted concentration exceeds the adopted site criteria - Asbestos Health Screening Level (w/w) - NEPM ASC 2013 AF/FA Highlighted concentration exceeds the adopted site criteria - Asbestos Health Screening Level (w/w) - NEPM ASC 2013 Bonded ACM

ACM Asbestos Containing Material

FA and AF Fibrous Asbestos and Asbestos Fines

No published criteria or sample not analysed

NL Not Limiting

			Asbestos Health	Laboratory Results				On-site gra	vimetric results	
Sample ID	Date Sampled	Asbestos Health Screening Level NEPM ASC 2013 (% w/w) HIL A - FA/AF	Screening Level NEPM ASC 2013 (% w/w) HIL A - Bonded ACM	Asbestos Detected/ Non-Detected	Percentage of AF/FA <7mm, %w/w	Percentage of Bonded ACM >7mm (500ml), %w/w	Weight of Sample (10L), kg	Onsite weight of ACM fragment >7mm, kg	Laboratory weight of ACM fragment >7mm, kg	Percentage of Bonded ACM >7mm (10L), %w/w
TP13-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.			15.6			
TP27-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.1	-	-	-
TP28-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.3	-	-	-
TP29-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.2	-	-	-
TP30-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.8	-	-	-
TP31-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	12.6	-	-	-
TP32-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.3	-	-	-
TP33-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	11.2	-	-	-
TP34-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.1	-	-	-
TP35-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.2	-	-	-
TP36-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.3	-	-	-
TP37-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.4	-	-	-
TP38-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.3	-	-	-
TP39-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.8	-	-	-
TP40-0.0-0.1	8/10/2021	0.001%	0.05%	No asbestos detected.	-	-	12.2	-	-	-
TP41 0.0-0.1	12/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.3	-	-	-
TP42 0.0-0.1	12/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-
TP43 0.0-0.1	12/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.0	-	-	-
TP44 0.0-0.1	12/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.9	-	-	-
DR11 0.0-0.1	13/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.1	-	-	-
DR12 0.0-0.1	13/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.5	-	-	-
DR13 0.0-0.1	13/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.6	-	-	-
DR14 0.0-0.1	13/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.9	-	-	-
ASB10 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-
TP50 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.6	-	-	-
TP50 0.1-0.4	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.3	-	-	-
ASB11 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.6	-	-	-
TP51 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.6	-	-	-
TP51 0.1-1.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.9	-	-	-
TP51 1.0-2.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.2	-	-	-
TP51 2.0-2.5	15/10/2021	0.001%	0.05%	Chrysotile asbestos detected.	-	-	17.1	0.22	-	0.1930%
ASB12 0.0-0.1	15/10/2021	0.001%	0.05%	Chrysotile and Amosite asbestos detected.	-	1.110%	14.9	0.58	0.008	0.5839%
ASB12 0.1-1.0	15/10/2021	0.001%	0.05%	Chrysotile and Amosite asbestos detected.	0.0025	1.800%	14.1	1.63	0.001	1.7340%
ASB12 1.0-2.0	15/10/2021	0.001%	0.05%	Chrysotile asbestos detected.	0.0040	0.770%	18.0	1.25	0.007	1.0417%
ASB13 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.5	-	-	-
ASB13 0.1-1.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.0	-	-	-
TP52 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-
TP52 0.1-1.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.2	-	-	-
TP52 1.0-2.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.6	-	-	-
TP52 2.0-2.5	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.7	-	-	-
TP53 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.7	-	-	-
ASB14 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.2	-	-	-
TP54 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.7	-	-	-
TP54 0.1-1.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-
TP54 1.0-2.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.8	-	-	-
TP54 2.0-2.5	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.2	-	-	-
ASB15 0.0-0.1	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.3	-	-	-
ASB15 0.1-1.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.6	-	-	-
ASB15 1.0-2.0	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.7	-	-	-

			Asbestos Health	Laboratory Results				On-site gra	vimetric results	
Sample ID	Date Sampled	Asbestos Health Screening Level NEPM ASC 2013 (% w/w) HIL A - FA/AF	Screening Level NEPM ASC 2013 (% w/w) HIL A - Bonded ACM	Asbestos Detected/ Non-Detected	Percentage of AF/FA <7mm, %w/w	Percentage of Bonded ACM >7mm (500ml), %w/w	Weight of Sample (10L), kg	Onsite weight of ACM fragment >7mm, kg	Laboratory weight of ACM fragment >7mm, kg	Percentage of Bonded ACM >7mm (10L), %w/w
ASB15 2.0-2.5	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.5	-	-	-
TP61 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-
TP61 0.1-1.0	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.0	-	-	-
TP62 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.8	-	-	-
TP63 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.9	-	-	-
TP64 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.2	-	-	-
TP65 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.2	-	-	-
TP66 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.8	-	-	-
SP3-1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.7	-	-	-
SP3-2	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.1	-	-	-
DR15 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.5	-	-	-
TP141 0.0-0.1	18/10/2021	0.001%	0.05%	hrysotile, amosite, and crocidolite asbestos detected	-	-	13.6	0.017	0.017	0.0188%
TP141 0.1-1.0	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.2	-	-	-
TP141 1.0-1.5	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	16.6	-	-	-
TP142 0.0-0.1	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.9	-	-	-
TP142 0.1-1.0	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.0	-	-	-
TP142 1.0-1.5	18/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.7	-	-	-
DR16 0.0-0.1	19/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.6	-	-	-
DR17 0.0-0.1	19/10/2021	0.001%	0.05%	No asbestos detected.	-	-	15.2	-	-	-
DW22	19/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.4	-	-	-
DW23	19/10/2021	0.001%	0.05%	Chrysotile and amosite asbestos detected.	-	-	14.7	0.115	0.057	0.1173%
TP70 0.0-0.1	19/10/2021	0.001%	0.05%	Chrysotile asbestos detected.	0.00300%	-	14.6	-	-	-
TP71 0.0-0.1	19/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.8	-	-	-
TP95 0.0-0.1	19/10/2021	0.001%	0.05%	No asbestos detected.	-	-	10.4	-	-	-
TP120 0.0-0.1	20/10/2021	0.001%	0.05%	No asbestos detected.	-	-	14.7	-	-	-
TP125 0.0-0.1	20/10/2021	0.001%	0.05%	No asbestos detected.	-	-	13.6	-	-	-
DS13	22/10/2021	0.001%	0.05%	No asbestos detected.	-	-	17.9	0.022	-	0.0184%
DS14	22/10/2021	0.001%	0.05%	No asbestos detected.	-	-	18.6	-	-	-
DS12	15/10/2021	0.001%	0.05%	No asbestos detected.	-	-	18.8	-	-	-
TP51 2.0-2.5 ASB	15/10/2021	-	-	Chrysotile asbestos detected.	-	-	-	0.22	-	-
ASB12 0.0-0.1 ASB	15/10/2021	-	-	Chrysotile asbestos detected.	-	-	-	0.58	-	-
ASB12 0.1-1.0 ASB	15/10/2021	-	-	Chrysotile asbestos detected.	-	-	-	1.63	-	-
ASB12 1.0-2.0 ASB	15/10/2021	-	-	Chrysotile asbestos detected.	-	-	-	1.25	-	-
TP61 ASB	18/10/2021	-	-	Chrysotile asbestos detected.	-	-	-	-	0.182	-
TP141 0.0-0.1 ASB	18/10/2021	-	-	hrysotile, amosite, and crocidolite asbestos detected	-	-	-	0.017	0.017	-
DW23 ASB	19/10/2021	-	-	Chrysotile and amosite asbestos detected.	-	-	_	0.115	0.057	-
DS13 ASB	22/10/2021	_	-	Chrysotile asbestos detected.	-	-	_	0.022	0.022	
TP43 0.0-0.1 ASB	12/10/2021	-	-	No asbestos detected.	-	-	-	0.02	-	-
TP09 0.0-0.1 ASB	7/10/2021	_	-	Chrysotile asbestos detected.	-	-	_	0.056	_	-
TP18 0.0-0.1 ASB	7/10/2021	_	-	No asbestos detected.	-	-	_	0.02	_	-
TP22 0.0-0.1 ASB	7/10/2021	_	-	No asbestos detected.	-	-	_	0.09	_	-
TP26 0.0-0.1 ASB	7/10/2021	_	_	No asbestos detected.	-	-	_	0.01	_	_

Metals TRH STEXN PCB	Analyte Asseric Asseric Cadmium Chromium Chromiu	Units mg/kg	Sample Matrix LOR 5 5 0.4/1 2 5 5 0.1 2 6 10/20 50 100 100	SOIL 11.0 < 0.4 23 34 40 < 0.1 14 58 <20 <50 <100	10.0 < 0.4 23 28 27 < 0.1 15 69 <20	RPD (%) 10 n/a 0 19 39 n/a 7	10.0 < 0.4 23 28 27 < 0.1	10.0 <1 21 22 36	RPD (%) 0 n/a 9	15.0 < 0.4 25	SOIL -	RPD (%) n/a n/a n/a	SOIL	SOIL	RPD (%) n/a n/a n/a	9.5 < 0.4 29	15.0 < 0.4 36	RPD (*
Metals TRH BTEXN	Arsenic Cadmism Chomism Chomism Chopper Lead Mercury Nickel ZEC-6F1) TRH CB-C6F2) TRH CB-C6F2) TRH CB-C6F2 TRH CB-C6F2 TRH CB-C6F2 TRH CB-C6F4 TRH CB-	maika maika maika maika maika maika maika maika maika maika maika maika maika	5 0.4/1 2 5 5 5 0.1 2 5 10/20 50 100	< 0.4 23 34 40 < 0.1 14 58 <20 <50	<0.4 23 28 27 <0.1 15 59 <20	10 n/a 0 19 39 n/a 7	< 0.4 23 28 27 < 0.1	<1 21 22	0 n/a 9	< 0.4	:	n/a n/a	:	:	n/a n/a	< 0.4	< 0.4	45 n/a
TRH BTEXN	Cadmium Chromium Copper Lead Mercury Nickel Zinc TRN CG-CG (F1) TRH C10-C16 (F2) TRH C10-C34 (F3) TRH C10-C44 (F3) TRH C34-C40 (F4) Beatzene Toluene Ethylbenzene	mgikg	2 5 6 0.1 2 5 10/20 50 100	23 34 40 < 0.1 14 58 <20 <50	23 28 27 < 0.1 15 59 <20	0 19 39 n/a 7	23 28 27 < 0.1	21 22	9		-:		-:-					
TRH BTEXN	Copper Lead Mercary Nickel Zinc TRH CG-CG (F1) TRH C10-C16 (F2) TRH C10-C34 (F3) TRH C10-C44 (F3) TRH C34-C40 (F4) Benzene Toluene Ethybenzene	mg/kg	5 5 0.1 2 5 10/20 50 100	34 40 < 0.1 14 58 <20 <50	28 27 < 0.1 15 59 <20	19 39 n/a 7	28 27 < 0.1	22		25		n/a		-	n/a	29	36	
TRH BTEXN	Lead Mercury Nickel Zen TRH C&CS (F1) TRH C10-C16 (F2) TRH C10-C16 (F2) TRH C10-C4 (F3) TRH C34-C40 (F4) Beruzene Toluene Ethylbenzene	mg/kg	5 0.1 2 5 10/20 50 100	40 < 0.1 14 58 <20 <50	27 < 0.1 15 59 < 20	39 n/a 7	27 < 0.1											22
BTEXN	Mercury Nickel Zinc TRH C8-C9 (F1) TRH C10-C16 (F2) TRH C10-C34 (F3) TRH C34-C40 (F4) Benzene Toluene Ethylbenzene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2 5 10/20 50 100 100	< 0.1 14 58 <20 <50	< 0.1 15 59 <20	n/a 7	< 0.1		24 29	27 25		n/a n/a		-	n/a n/a	29 21	40 30	32 35
BTEXN	Nickel Zinc TRH C8-C9 (F1) TRH C10-C16 (F2) TRH C10-C16 (F2) TRH C10-C34 (F3) TRH C34-C40 (F4) Benzene Toluene Ethytbenzene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2 5 10/20 50 100 100	14 58 <20 <50	15 59 <20	7		<0.1	n/a	< 0.1		n/a			n/a	< 0.1	< 0.1	n/a
BTEXN	TRH C8-C9 (F1) TRH C10-C16 (F2) TRH C16-C34 (F3) TRH C34-C40 (F4) Benzene Toluene Ethylbenzene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	10/20 50 100 100	<20 <50	<20	2	15	19	24	23		n/a			n/a	25	30	18
BTEXN	TRH C10-C16 (F2) TRH C16-C34 (F3) TRH C34-C40 (F4) Benzene Toluene Ethylbenzene	mg/kg mg/kg mg/kg mg/kg mg/kg	50 100 100	<50			59	51	15	120		n/a			n/a	120	220	59
BTEXN	TRH C16-C34 (F3) TRH C34-C40 (F4) Benzene Toluene Ethylbenzene	mg/kg mg/kg mg/kg mg/kg	100 100			n/a	<20	<10	n/a	<20		n/a			n/a	<20	<20	n/a
	TRH C34-C40 (F4) Benzene Toluene Ethylbenzene	mg/kg mg/kg mg/kg	100		<50 <100	n/a n/a	<50 <100	<50 <100	n/a n/a	<50 <100	-	n/a n/a		- :	n/a n/a	<50 1000	<50 <100	n/a 181
	Benzene Toluene Ethylbenzene	mg/kg mg/kg		<100	<100	n/a	<100	<100	n/a	<100	-	n/a		-	n/a	180	<100	113
	Toluene Ethylbenzene	mg/kg	0.1/0.2	<0.1	<0.1	n/a	<0.1	<0.2	n/a	<0.1	-	n/a			n/a	<0.1	<0.1	n/a
			0.1/0.5	<0.1	<0.1	n/a	<0.1	<0.5	n/a	<0.1		n/a			n/a	<0.1	<0.1	n/a
PCB	Total Xylene	mg/kg	0.1/0.5	<0.1	<0.1	n/a	<0.1	<0.5	n/a	<0.1		n/a			n/a	<0.1	<0.1	n/a
PCB	Manistralana	mg/kg	0.3/0.5	<0.3 <0.5	<0.3 <0.5	n/a	<0.3	<0.5	n/a	<0.3		n/a			n/a	<0.3	<0.3 <0.5	n/a n/a
	Naphthalene Total PCB	mg/kg mg/kg	0.5/1	~U.D	~U.D	n/a n/a	~0.5	<1	n/a n/a	~U.D	<0.1	n/a n/a	<0.1	<0.1	n/a n/a	~U.D	<0.5	n/a n/a
	Naphthalene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
L	Acenaphthylene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a		-	n/a	<0.5	< 0.5	n/a
	Acenaphthene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Fluorene	mg/kg mg/ka	0.5	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5		n/a n/a		-	n/a n/a	<0.5 <0.5	<0.5	n/a n/a
	Phenanthrene Anthracene	mg/kg mg/kg	0.5 0.5	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	-	n/a n/a			n/a n/a	<0.5	<0.5	n/a n/a
	Fluoranthene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	-	n/a	-	-	n/a	<0.5	<0.5	n/a
	Pyrene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
PAH	Chrysene	mg/kg mg/ka	0.5	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	-:-	n/a n/a		- :	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a
	Benzo(b+j)fluoranthene	mg/kg mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	- :	n/a			n/a	<0.5	<0.5	n/a
	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Indeno(1,2,3,cd)pyrene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Dibenz(a.h)anthracene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Benzo(g.h.i)perylene Total PAH	mg/kg mg/kg	0.5	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5		n/a n/a		-	n/a n/a	<0.5 <0.5	<0.5	n/a n/a
	Benzo(a)pyrene TEQ (zero)	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	- :	n/a		- :	n/a	<0.5	<0.5	n/a
Ber	enzo(a)pyrene TEQ (half LOR)	mg/kg	0.5	0.6	0.6	n/a	0.6	0.6	n/a	0.6		n/a			n/a	0.6	0.6	n/a
E	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	n/a	1.2	1.2	n/a	1.2		n/a			n/a	1.2	1.2	n/a
	alpha-BHC	mg/kg	0.05/0.5		- :	n/a	- :		n/a		<0.5	n/a	<0.5	<0.05	n/a		-	n/a
	Hexachlorobenzene (HCB)	mg/kg mg/kg	0.05/0.5		- :	n/a n/a			n/a n/a		<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.05	n/a n/a		- :	n/a n/a
	beta-BHC gamma-BHC	mg/kg	0.05/0.5	- :	- :	n/a	- :	- :	n/a	- :	<0.5	n/a	<0.5	<0.05	n/a	- :	- :	n/a
	delta-BHC	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	Heptachlor	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	Aldrin	mg/kg mg/ka	0.05/0.5		-	n/a n/a			n/a n/a		<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.05	n/a n/a			n/a n/a
	Heptachlor epoxide Total Chlordane (sum)	mg/kg mg/kg	0.05/0.5	- :	- :	n/a n/a	- :	- :	n/a n/a	- :	<0.5 <1	n/a n/a	<1	<0.05	n/a n/a	- :		n/a n/a
	trans-Chlordane	mg/kg	0.05/0.5		-	n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	alpha-Endosulfan	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
OCP	cis-Chlordane	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
OCP	Dieldrin 4.4'-DDE	mg/kg mg/ka	0.05/0.5			n/a n/a		-	n/a n/a		<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.05	n/a n/a			n/a n/a
	4.4'-DDE Endrin	mg/kg mg/ka	0.05/0.5	- : -	- : -	n/a n/a	- : -	- : -	n/a n/a	- :	<0.5	n/a n/a	<0.5	<0.05	n/a n/a	- :	- :	n/a
	Endosulfan (sum)	mg/kg	0.05/0.5		-	n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	beta-Endosulfan	mg/kg	0.05/0.5		-	n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	4.4`-000	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	Endrin aldehyde	mg/kg mg/kg	0.05/0.5		- :	n/a n/a	- :		n/a n/a		<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.05	n/a n/a			n/a n/a
	Endosulfan sulfate	mg/kg mg/kg	0.05/0.5		- :	n/a n/a	- :		n/a n/a		<0.5	n/a n/a	<0.5	<0.2	n/a n/a		-	n/c
	Endrin ketone	mg/kg	0.05/0.5			n/a		-	n/a		<0.5	n/a	<0.5	< 0.05	n/a			n/a
	Methoxychlor	mg/kg	0.2/0.5		-	n/a			n/a		<0.5	n/a	<0.5	<0.2	n/a			n/a
	Sum of DDD + DDE + DDT	mg/kg	0.05/0.5		-	n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a
	Sum of Aldrin + Dieldrin	mg/kg	0.05/0.5			n/a			n/a		<0.5	n/a	<0.5	<0.05	n/a			n/a

			Sample ID	BD3	BT3		TP63 0.0-0.1	BD4		BD4	BT4		TP120 0.0-0.1	BD6		BD5	BT5	
Table 2. RPD Table			Reference	S21-Oc38492	ES2137883003		S21-No36962	S21-No02584		S21-No02584	ES2139759001		S21-No02632	S21-No02657			ES2139759002	
290-308 Aldington Ro	ad and 59-63 Abbotts Road, Kemps Ci	eek NSW	Date Sampled	7/10/2021	7/10/2021		18/10/2021	18/10/2021		18/10/2021	18/10/2021		21/10/2021	21/10/2021		21/10/2021	21/10/2021	
13018-ER-1-1			Sample Matrix	SOIL	SOIL		SOIL	SOIL		SOIL	SOIL		SOIL	SOIL		SOIL	SOIL	
Group	Analyte	Units	LOR			RPD (%)			RPD (%)			RPD (%)			RPD (%)			RPD (%)
	Arsenic	mg/kg	5	15.0	<5	143	8	- 11	35	- 11	9.0	20	5		n/a			n/a
	Cadmium	mg/kg	0.4/1	< 0.4	<1	n/a	< 0.4	< 0.4	n/a	< 0.4	<1	n/a	< 0.4		n/a			n/a
	Chromium	mg/kg	2	36	4	160	21	23	9	23	19	19	12		n/a			n/a
Metals	Copper	mg/kg	5	40	<5	176	33	36	9	36	34	- 6	26		n/a			n/a
Metals	Lead	mg/kg	5	30	<5	169	24	28	15	28	25	11	16		n/a			n/a
	Mercury	mg/kg	0.1	< 0.1	< 0.1	n/a	< 0.1	< 0.1	n/a	< 0.1	<0.1	n/a	< 0.1		n/a			n/a
	Nickel	mg/kg	2	30	<2	187	17	20	16	20	17	16	9		n/a			n/a
	Zinc	mg/kg	5	220	11	181	56	71	24	71	53	29	360		n/a			n/a
	TRH C6-C9 (F1)	mg/kg	10/20	<20	<10	n/a	<20	<10	n/a	<10	<10	n/a	<10		n/a			n/a
TRH	TRH C10-C16 (F2)	mg/kg	50	<50	<50	n/a	<50	<50	n/a	<50	<50	n/a	<50		n/a			n/a
INI	TRH C16-C34 (F3)	mg/kg	100	<100	<100	n/a	<100	<100	n/a	<100	<100	n/a	<100		n/a			n/a
	TRH C34-C40 (F4)	mg/kg	100	<100	<100	n/a	<100	<100	n/a	<100	<100	n/a	<100		n/a			n/a
	Benzene	mg/kg	0.1/0.2	<0.1	< 0.2	n/a	< 0.1	< 0.2	n/a	<0.2	<0.2	n/a	< 0.2		n/a			n/a
	Toluene	mg/kg	0.1/0.5	<0.1	< 0.5	n/a	<0.1	< 0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
BTEXN	Ethylbenzene	mg/kg	0.1/0.5	<0.1	< 0.5	n/a	< 0.1	< 0.5	n/a	<0.5	<0.5	n/a	< 0.5		n/a			n/a
	Total Xylene	mg/kg	0.3/0.5	<0.3	<0.5	n/a	<0.3	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Naphthalene	mg/kg	0.5/1	<0.5	<1	n/a	<0.5	<1	n/a	<1	<1	n/a	<1		n/a			n/a
PCB	Total PCB	mg/kg	0.1		<0.1	n/a			n/a			n/a	<0.1	<0.1	n/a	<0.1	<0.1	n/a
	Naphthalene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Acenaphthene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Fluorene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Phenanthrene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Fluoranthene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Pyrene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
PAH	Chrysene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Benzo(b+j)fluoranthene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5 <0.5	<0.5 <0.5	n/a	<0.5	<0.5 <0.5	n/a	<0.5 <0.5	<0.5 <0.5	n/a	<0.5 <0.5		n/a	- :	- :	n/a
	Benzo(a)pyrene	mg/kg	0.5			n/a			n/a			n/a			n/a		- :	n/a
	Indeno(1.2.3.cd)pyrene	mg/kg	0.5	<0.5 <0.5	<0.5 <0.5	n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5		n/a n/a			n/a n/a
	Dibenz(a.h)anthracene	mg/kg	0.5	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5		n/a n/a			n/a n/a
	Benzo(g.h.i)perylene	mg/kg	0.5	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	-	n/a n/a	- :	- :	n/a n/a
	Total PAH	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	-	n/a	- :	- :	n/a
	Benzo(a)pyrene TEQ (zero)	mg/kg mg/ka	0.5	0.6	0.6	n/a	0.6	0.6	n/a	0.6	0.6	n/a	0.6	- :	n/a	-	- :	n/a
	Benzo(a)pyrene TEQ (half LOR)	mg/kg	0.5	1.2	1.2	n/a	1.2	1.2	n/a	1.2	1.2	n/a	1.2	-	n/a	-		n/a
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.05/0.5		<0.05	n/a	- 12		n/a	- 1.2		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
		mg/kg	0.05/0.5	-	<0.05	n/a			n/a	-		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Hexachlorobenzene (HCB)	mg/kg mg/kg	0.05/0.5	- :	<0.05	n/a			n/a	- :		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	beta-BHC gamma-BHC	mg/kg	0.05/0.5	-	<0.05	n/a			n/a	- :		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	gamma-BHC delta-BHC	mg/kg	0.05/0.5		<0.05	n/a			n/a	- 1		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Heptachlor	mg/kg	0.05/0.5		<0.05	n/a	-	-	n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Aldrin	ma/ka	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Heptachlor epoxide	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	<0.05	<0.05	n/a
	Total Chlordane (sum)	mg/kg	0.05/1		< 0.05	n/a			n/a			n/a	< 0.1	<0.1	n/a	<0.1	<0.05	n/a
	trans-Chlordane	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	<0.05	<0.05	n/a
	aloha-Endosulfan	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	cis-Chlordane	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	< 0.05	<0.05	n/a
OCP	Dieldrin	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	<0.05	<0.05	n/a
	4.4`-DDE	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	<0.05	<0.05	n/a
	Endrin	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Endosulfan (sum)	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	<0.05	n/a	<0.05	<0.05	n/a
	beta-Endosulfan	mg/kg	0.05/0.5		<0.05	n/a		-	n/a			n/a	< 0.05	<0.05	n/a	<0.05	<0.05	n/a
	4.4°-DDD	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Endrin aldehyde	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	<0.05	n/a	<0.05	<0.05	n/a
	Endosulfan sulfate	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	< 0.05	<0.05	n/a	<0.05	<0.05	n/a
	4.4'-DDT	mg/kg	0.2/0.5	-	< 0.2	n/a			n/a	-		n/a	<0.05	<0.05	n/a	<0.05	< 0.2	n/a
	Endrin ketone	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Methaxychlor	mg/kg	0.2/0.5		<0.2	n/a			n/a			n/a	< 0.05	<0.05	n/a	<0.05	<0.2	n/a
	Sum of DDD + DDE + DDT	mg/kg	0.05/0.5		<0.05	n/a			n/a			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a
	Sum of Aldrin + Dieldrin	mg/kg	0.05/0.5		< 0.05	n/a			n/a			n/a	< 0.05	< 0.05	n/a	< 0.05	<0.05	n/a

RPD exceeding criteria Not analysed

Table 2. RPD Table 290-308 Aldington Ros 13018-ER-1-1	ad and 59-63 Abbotts Road, Kemps Ci	reek NSW	Sample ID Reference Date Sampled Sample Matrix	TP27-0.0-0.2 S21-Oc38511 8/10/2021 SOIL	BD6 S21-Oc49312 22/11/2021 SOIL		BD6 S21-0c49312 22/11/2021 SOIL	BT6 ES2138446001 22/10/2021 SOIL		SP1-1 S21-0c38460 7/10/2021 SOIL	BD7 \$21-Oc49313 22/10/2021 SOIL		BD7 S21-Oc49313 22/10/2021 SOIL	BT7 ES2138446002 22/10/2021 SOIL		TP50 0.0-0.1 \$21-No02560 15/10/2021 \$OIL	BD8 S21-Oc49314 22/10/2021 SOIL	
Group	Analyte	Units	LOR	OOL	00%	RPD (%)	OOL	OOIL	RPD (%)	OOL	OOIL	RPD (%)	OOL	00%	RPD (%)	OOIL	OOIL	RPD (%)
Oloup	Arsenic	ma/ka	5	9.9	6.6	40	6.6	7.0	6	3.3	-	n/a	-		n/a	11	6.5	51
	Cadmium	mg/kg	0.4/1	< 0.4	< 0.4	n/a	< 0.4	<1	n/a	< 0.4		n/a			n/a	< 0.4	< 0.4	n/a
	Chromium	mg/kg	2	20	15	29	15	16	6	10		n/a			n/a	25	14	56
Metals	Copper	mg/kg	5	36	42	15	42	52	21	260		n/a			n/a	42	22	63
metais	Lead	mg/kg	5	25	20	22	20	22	10	12		n/a			n/a	34	19	57
	Mercury	mg/kg	0.1	< 0.1	< 0.1	n/a	< 0.1	<0.1	n/a	< 0.1		n/a			n/a	< 0.1	< 0.1	n/a
	Nickel	mg/kg	2	21	16	27	16	17	6	15		n/a			n/a	20	11	58
	Zinc	mg/kg	5	120	120	0	120	122	2	1000		n/a			n/a	170	70	83
	TRH C6-C9 (F1)	mg/kg	10/20	<20	<20	n/a	<20	<10	n/a	<20		n/a			n/a	<20	<20	n/a
TRH	TRH C10-C16 (F2)	mg/kg	50	<50 <100	<50 200.00	n/a 120	<50 200.00	<50 <100	n/a 120	<50 430.00		n/a	- :	- :	n/a	<50 170	<50 <100	n/a
	TRH C16-C34 (F3) TRH C34-C40 (F4)	mg/kg	100	<100	200.00 <100	120 n/a	<100	<100	120 n/a	180.00		n/a n/a			n/a n/a	190	<100	n/a n/a
		mg/kg	0.1/0.2	<0.1	<0.1	n/a n/a	<0.1	<0.2	n/a n/a	180.00 <0.1	-	n/a n/a	-:-	- :	n/a n/a	<0.1	<0.1	n/a n/a
	Benzene Toluene	mg/kg mg/kg	0.1/0.2	<0.1	<0.1	n/a n/a	<0.1	<0.2	n/a n/a	<0.1	- :	n/a n/a	- :	- :	n/a n/a	<0.1	<0.1	n/a n/a
BTEXN	Ethylbenzene	mg/kg mg/ka	0.1/0.5	<0.1	<0.1	n/a	<0.1	<0.5	n/a	<0.1		n/a	- :		n/a	<0.1	<0.1	n/a
	Total Xviene	mg/kg mg/ka	0.1/0.5	<0.3	<0.3	n/a	<0.3	<0.5	n/a	<0.3		n/a	- :		n/a	<0.3	<0.3	n/a
	Naphthalene	mg/kg	0.5/1	<0.5	<0.5	n/a	<0.5	<1	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
PCB	Total PCB	mg/kg	0.1	-	-	n/a			n/a	<1	<1	n/a	<1	<0.1	n/a	<0.1		n/a
	Naphthalene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a		-0.1	n/a	<0.5	<0.5	n/a
	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
j	Acenaphthene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Fluorene	mg/kg	0.5	<0.5	< 0.5	n/a	< 0.5	< 0.5	n/a	< 0.5		n/a			n/a	<0.5	< 0.5	n/a
	Phenanthrene	mg/kg	0.5	<0.5	< 0.5	n/a	< 0.5	< 0.5	n/a	< 0.5		n/a			n/a	<0.5	< 0.5	n/a
	Anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Fluoranthene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Pyrene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
PAH	Chrysene	mg/kg	0.5	<0.5	< 0.5	n/a	< 0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Benzo(b+i)fluoranthene	mg/kg mg/kg	0.5	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5		n/a n/a	- :		n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a
	Benzo(k)fluoranthene			<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	- :	n/a n/a	- :		n/a n/a	<0.5	<0.5	n/a n/a
	Benzo(a)pyrene	mg/kg mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	- :	n/a	- :	- :	n/a	<0.5	<0.5	n/a
	Indeno(1.2.3.cd)pyrene Dibenz(a.h)anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5	- :	n/a	-	- :	n/a	<0.5	<0.5	n/a
	Benzo(a.h.i)pervlene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Total PAH	mg/kg	0.5	<0.5	<0.5	n/a	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a
	Benzo(a)pyrene TEQ (zero)	mg/kg	0.5	<0.5	< 0.5	n/a	< 0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	< 0.5	n/a
	Benzo(a)pyrene TEQ (half LOR)	mg/kg	0.5	0.6	0.6	n/a	0.6	0.6	n/a	0.6		n/a			n/a	0.6	0.6	n/a
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	n/a	1.2	1.2	n/a	1.2		n/a			n/a	1.2	1.2	n/a
	alpha-BHC	mg/kg	0.05/0.5			n/a		-	n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Hexachlorobenzene (HCB)	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	beta-BHC	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	< 0.05	n/a	<0.5		n/a
	gamma-BHC	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
,	delta-BHC	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Heptachlor	mg/kg	0.05/0.5			n/a			n/a	<0.5 <0.5	<0.05	n/a	<0.5 <0.5	<0.05 <0.05	n/a	<0.5 <0.5		n/a
	Aldrin	mg/kg	0.05/0.5	-:-	- :	n/a n/a	- :	- :	n/a n/a	<0.5 <0.5	<0.05	n/a n/a	<0.5 <0.5	<0.05 <0.05	n/a n/a	<0.5 <0.5	- :	n/a n/a
	Heptachlor epoxide	mg/kg	0.05/0.5	-:-	- :	n/a n/a	- :		n/a n/a	<0.5	<0.05	n/a n/a	<0.5	<0.05	n/a n/a	<0.5	- :	n/a n/a
	Total Chlordane (sum) trans-Chlordane	mg/kg mg/kg	0.05/1	- :	-	n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
ŀ	trans-Enrordane aloha-Endosulfan	mg/kg	0.05/0.5	-	-	n/a	- :		n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5	- :	n/a
j	aigna-Engosultan cis-Chlordane	mg/kg	0.05/0.5			n/a	-		n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
OCP	Dieldrin	mg/kg	0.05/0.5			n/a	-		n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
j	4.4'-DDE	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Endrin	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Endosulfan (sum)	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
[beta-Endosulfan	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	4.4`-DDD	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Endrin aldehyde	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	< 0.5	< 0.05	n/a	<0.5		n/a
,	Endosulfan sulfate	mg/kg	0.05/0.5			n/a			n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	4.4`-DDT	mg/kg	0.2/0.5	- :	- :	n/a	-	-:-	n/a n/a	<0.5 <0.5	<0.2 <0.05	n/a n/a	<0.5 <0.5	<0.2	n/a	<0.5 <0.5	:	n/a n/a
	Endrin ketone	mg/kg mg/ka	0.05/0.5	-:-		n/a n/a	-	-	n/a n/a	<0.5	<0.05	n/a n/a	<0.5	<0.05	n/a n/a	<0.5		n/a n/a
}	Methaxychlor Sum of DDD + DDF + DDT	mg/kg mg/ka	0.2/0.5	-:-	- :	n/a n/a	- :	- :	n/a n/a	<0.5	<0.2	n/a n/a	<0.5	<0.2	n/a n/a	<0.5	- :	n/a n/a
	Sum of Aldrin + Dieldrin	mg/kg	0.05/0.5	-	-	n/a	-	1	n/a	<0.5	<0.05	n/a	<0.5	<0.05	n/a	<0.5		n/a
	Sum or Ararin + Dielarin	g/kg	0.00/0.5					1		3.0	3.00		0.0	3.00	.74	3.0		

RPD exceeding criteria
Not analysed

Table 2. RPD Table 290-308 Aldington Ros 13018-ER-1-1	ad and 59-63 Abbotts Road, Kemps Co	reek NSW	Sample ID Reference Date Sampled Sample Matrix	BD8 S21-Oc49314 22/10/2021 SOIL	BT8 ES2138446003 22/10/2021 SOIL		TP54 0.0-0.1 S21-No02569 15/10/2021 SOIL	BD9 \$21-0c49315 22/10/2021 SOIL		BD9 \$21-Oc49315 22/10/2021 SOIL	BT9 ES2138446004 22/10/2021 SOIL		TP125 0.0-0.1 S21-No02635 20/10/2021 SOIL	BD10 S21-0c49316 22/10/2021 SOIL		BD10 S21-Oc49316 22/10/2021 SOIL	BT10 ES2138446005 22/10/2021 SOIL	
Group	Analyte	Units	LOR	JUIL	JUIL	RPD (%)	JUIL	SUIL	RPD (%)	JUL	JUIL	RPD (%)	JUIL	SUIL	RPD (%)	JUIL	JUIL	RPD (%)
Отопр	Arsenic	ma/ka	5	6.5	8.0	21	10		n/a		-	n/a	14	10.0	33	10.0	11.0	10
	Cadmium	mg/kg	0.4/1	< 0.4	<1	n/a	< 0.4		n/a			n/a	< 0.4	< 0.4	n/a	< 0.4	<1	n/a
	Chromium	mg/kg	2	14	17	19	17		n/a			n/a	21	16	27	16	16	0
Metals	Copper	mg/kg	5	22	32	37	25		n/a			n/a	31	21	38	21	26	21
metura	Lead	mg/kg	5	19	24	23	22		n/a			n/a	25	17	38	17	20	16
	Mercury	mg/kg	0.1	< 0.1	<0.1	n/a	< 0.1		n/a			n/a	< 0.1	< 0.1	n/a	< 0.1	<0.1	n/a
	Nickel	mg/kg	2	11	13	17	14		n/a			n/a	23	15	42	15	18	18
	Zinc	mg/kg	5	70	82	16	69		n/a			n/a	63	39	47	39	42	7
	TRH C6-C9 (F1)	mg/kg	10/20 50	<20 <50	<10 <50	n/a n/a	<20 <50	- :	n/a n/a	-:-	- :	n/a n/a	<20 <50	<20 <50	n/a n/a	<20 <50	<10 <50	n/a n/a
TRH	TRH C10-C16 (F2) TRH C16-C34 (F3)	mg/kg	100	<100	<100	n/a	<100		n/a	- :	- :	n/a	<100	<100	n/a	<100	<100	n/a
. t	TRH C16-C34 (F3) TRH C34-C40 (F4)	mg/kg mg/kg	100	<100	<100	n/a	<100	-	n/a	- :	-	n/a	<100	<100	n/a	<100	<100	n/a
	Benzene	mg/kg	0.1/0.2	<0.1	<0.2	n/a	<0.1	-	n/a	-	- :	n/a	<0.1	<0.1	n/a	<0.1	<0.2	n/a
	Toluene	mg/kg	0.1/0.5	<0.1	<0.5	n/a	<0.1		n/a			n/a	<0.1	<0.1	n/a	<0.1	<0.5	n/a
BTEXN	Ethylbenzene	mg/kg	0.1/0.5	<0.1	<0.5	n/a	<0.1		n/a			n/a	<0.1	<0.1	n/a	<0.1	<0.5	n/a
	Total Xviene	mg/kg	0.3/0.5	<0.3	<0.5	n/a	<0.3		n/a			n/a	< 0.3	<0.3	n/a	<0.3	< 0.5	n/a
	Naphthalene	mg/kg	0.5/1	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.1	n/a
PCB	Total PCB	mg/kg	0.1			n/a	<0.1	<0.1	n/a	<0.1	<0.1	n/a	<0.1		n/a			n/a
	Naphthalene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
İ	Acenaphthylene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
	Acenaphthene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
	Fluorene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
	Phenanthrene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
	Anthracene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
Į.	Fluoranthene	mg/kg	0.5	<0.5 <0.5	<0.5 <0.5	n/a	<0.5 <0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
Į.	Pyrene	mg/kg	0.5	<0.5	<0.5	n/a n/a	<0.5		n/a n/a			n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a	<0.5 <0.5	<0.5 <0.5	n/a n/a
	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	n/a n/a	<0.5	- :	n/a n/a	- : -	- :	n/a n/a	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a
PAH	Chrysene Benzo(b+i)fluoranthene	mg/kg ma/ka	0.5	<0.5	<0.5	n/a n/a	<0.5	- :	n/a n/a	- :		n/a n/a	<0.5	<0.5	n/a n/a	<0.5	<0.5	n/a n/a
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a	-		n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
i i	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
i i	Indeno(1.2.3.od)pyrene	mg/kg	0.5	<0.5	<0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	<0.5	n/a
İ	Dibenz(a.h)anthracene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
İ	Benzo(a.h.i)pervlene	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
	Total PAH	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
	Benzo(a)pyrene TEQ (zero)	mg/kg	0.5	<0.5	< 0.5	n/a	<0.5		n/a			n/a	<0.5	<0.5	n/a	<0.5	< 0.5	n/a
	Benzo(a)pyrene TEQ (half LOR)	mg/kg	0.5	0.6	0.6	n/a	0.6		n/a			n/a	0.6	0.6	n/a	0.6	0.6	n/a
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	n/a	1.2		n/a			n/a	1.2	1.2	n/a	1.2	1.2	n/a
	alpha-BHC	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a			n/a
Į.	Hexachlorobenzene (HCB)	mg/kg	0.05/0.5			n/a	<0.05	<0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a			n/a
	beta-BHC	mg/kg	0.05/0.5		-	n/a n/a	<0.05	<0.05	n/a n/a	<0.05	<0.05 <0.05	n/a n/a	<0.05		n/a n/a			n/a n/a
	gamma-BHC delta-BHC	mg/kg mg/kg	0.05/0.5	- :		n/a n/a	<0.05	<0.05 <0.05	n/a n/a	<0.05 <0.05	<0.05	n/a n/a	<0.05	- :	n/a n/a	-		n/a n/a
1	delta-BHC Hentachlor	mg/kg mg/kg	0.05/0.5	-:-	- :	n/a n/a	<0.05	<0.05	n/a n/a	<0.05	<0.05	n/a n/a	<0.05	- :	n/a n/a		- :	n/a n/a
ŀ	Heptachior Aldrin	mg/kg	0.05/0.5	-		n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a	<0.05		n/a			n/a
	Heptachlor epoxide	mg/kg	0.05/0.5			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a	<0.05		n/a	- :		n/a
	Total Chlordane (sum)	mg/kg	0.05/1			n/a	<0.05	<0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a			n/a
	trans-Chlordane	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	< 0.05	n/a	< 0.05		n/a			n/a
	alpha-Endosulfan	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	<0.05	n/a	< 0.05		n/a			n/a
ſ	cis-Chlordane	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	<0.05	n/a	< 0.05		n/a			n/a
OCP	Dieldrin	mg/kg	0.05/0.5			n/a	<0.05	<0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a			n/a
	4.4'-DDE	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a			n/a
	Endrin	mg/kg	0.05/0.5			n/a	<0.05	<0.05	n/a	<0.05	<0.05	n/a	<0.05		n/a			n/a
ļ	Endosulfan (sum)	mg/kg	0.05/0.5		- :	n/a n/a	<0.05 <0.05	<0.05 <0.05	n/a n/a	<0.05 <0.05	<0.05 <0.05	n/a n/a	<0.05	- :	n/a n/a	- :	-	n/a n/a
1	beta-Endosulfan	mg/kg	0.05/0.5	-:-	- :	n/a n/a	<0.05	<0.05	n/a n/a	<0.05	<0.05	n/a n/a	<0.05	- :	n/a n/a		- :	n/a n/a
}	4.4'-DDD Endrin aldehyde	mg/kg mg/kg	0.05/0.5		- :	n/a n/a	<0.05	0.08	105	0.08	<0.05	105	<0.05		n/a n/a		- :	n/a n/a
}	Endrin aldehyde Endosulfan sulfate	mg/kg mg/kg	0.05/0.5	- :	- :	n/a n/a	<0.05	<0.05	106 n/a	<0.05	<0.05	105 n/a	<0.05	- :	n/a n/a	-	- :	n/a n/a
ł	Endosulfan sulfate 4.4`-DDT	mg/kg mg/kg	0.05/0.5	- :	- :	n/a	<0.0	<0.2	n/a	<0.2	<0.2	n/a	<0.2	- :	n/a	- :	- :	n/a
†	Fodrio ketone	mg/kg	0.05/0.5			n/a	<0.05	<0.05	n/a	< 0.05	<0.05	n/a	<0.05		n/a	- :		n/a
	Methaxychlor	mg/kg	0.2/0.5			n/a	<0.2	<0.2	n/a	<0.2	<0.2	n/a	<0.2		n/a			n/a
F	Sum of DDD + DDE + DDT	mg/kg	0.05/0.5			n/a	<0.05	< 0.05	n/a	< 0.05	<0.05	n/a	< 0.06		n/a			n/a
						n/a	< 0.05	< 0.05	n/a	< 0.05	<0.05	n/a	< 0.05		n/a			n/a

RPD exceeding criteria
Not analysed

Table 3. Dam Wa	ter Analysis							ample ID SW01							SW08		SW10		SW12		SW14					SW19	
Water Results 8	n Road and 59-63 Abbotts Road, Kemps Creek NSW Adopted Site Criteria						Date	leference \$21-Oc384 Sampled 7/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021	13/10/2021	13/10/2021	15/10/2021	15/10/2021	18/10/2021	18/10/2021	18/10/2021	18/10/2021	19/10/2021	19/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021
13546-ER-2-1	T	_		Australian & New Zealand		Australian & New Zealand	Samp	ole Matrix Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
				Guidelines for Fresh & Marine Water Quality (2000)	ANZECC & ARMCANZ (2000)	Guidelines for Fresh & Marine Water Quality																					
Group	Analyte	Units	PQL	95% Level of Species Protection Guideline Value	Recreational Water Quality (Secondary Contact)	(2000) Primary Industries — Rationale and Backgroun Information	Data Set II	Data Set faximum																			
	Arsenic, As Cadmium, Cd	ugL	1 0.2	13 0.2	:	-	2 <0.2	31 4 0.8 0.2	22	- 6 - 40.2	13 <0.2	2	6	9	12 <0.2	3	29	13 <0.2	31	3 (0.2	3	2	3 <0.2	31	7 <0.2	2	6
	Chromium, Cr Copper, Cu	ugL	1 1	1 1.4		-	1 6	130 14	100	17	53 87	2	34	18	23	6	92	50 110	110	3	3 7	2	1	130	7	2	8 21
Metals	Lead, Pb	ugl	1	3.4				230 35	140	30	75	5	90	35	60	6	180 0.1	93 <0.1	170 0.2	7	4	8 <0.1	6	230 0.5	21 <0.1	5	15
	Mercury (inorganic) Nickel, Ni	ug/L	1	0.6 11			3	110 12	64	<0.1 15	0.2 42	<0.1 4	32	<0.1 21	28	<0.1 6	78	68	100	<0.1 7	<0.1 4	<0.1 3	<0.1 3	110	<0.1 10	<0.1 3	<0.1 12
	Zinc, Zn Acenaphthene	ugL	1	8	- :	-		1500 91	520 <1	68	180	19 <1	150 <1	69 <1	120	20 <1	520 <1	220	1500 <1	25 <1	20 <1	24 <1	21 <1	510 <1	38 <1	10 <1	44
	Acenaphthylene	ug/L	1	-			ব	ব ব	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Anthracene Benzo(a)anthracene	ug/L ug/L	1	0.4	- :	-	ব	ব ব ব ব	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1 <1	<1	<1	<1 <1	<1	<1	<1 <1	<1 <1	<1	<1	<1
	Benzo(a)pyrene Benzo(b&)fluoranthene	ug/L ug/L	1	0.2		-	ব ব	ব ব ব ব	<1	<1	<1	<1	<1 <1	<1	<1 <1	<1	<1	<1	<1 <1	<1	<1 <1	<1	<1	<1 <1	<1	<1	<1 <1
	Benzo(ghi)perylene	ug/L	1	- :			ব	ব ব	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAH	Benzo(k)fluoranthene Chrysene	ug/L ug/L	1	- :			ব	ব ব	<1	<1	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1	Dibenzo(ah)anthracene	ug/L	1	-	-		ব	ব ব	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1	Fluoranthene Fluorene	uglL	1 1	1.4				ব ব ব ব	<1	<1	<1	<1	<1 <1	<1	<1 <1	<1	<1	<1	<1 <1	<1 <1	<1	<1	<1 <1	<1 <1	<1	<1	<1
1	Indeno(1,2,3-cd)pyrene	ugL	1	-			ব	ব ব	ব	<1	<1	<1	<1	<1	ব	ব	ব	<1	ব	<1	<1	<1	<1	<1	ব	ব	<1 <1
	Phenanthrene	ugit	1	2			ব	4 4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1	Pyrene Total PAH	ugit	1	-			ব ব	ব ব ব ব	<1	<1	<1	<1	<1 <1	<1	<1	<1	<1	<1 <1	<1 <1	<1 <1	<1	<1	<1	<1 <1	<1	<1	<1 <1
	TRH >C10-C16	mg/L	0.05				< 0.05	0.91 0.91	0.27	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.45	< 0.05	0.18	0.16	< 0.05	< 0.05	0.07
1	TRH >C10-C16 less Naphthalene (F2) TRH >C10-C40 (total)*	mg/L mg/L	0.05				< 0.05		0.27 0.87	0.05 0.65	< 0.05	< 0.05 0.1	< 0.05 0.1	< 0.05 0.2	< 0.05	< 0.05	< 0.05 0.3	< 0.05 < 0.1	< 0.05 < 0.1	< 0.05 0.1	0.45 1.05	< 0.05 0.2	0.18 0.48	0.16 0.76	< 0.05 0.2	< 0.05	0.07 0.27
	TRH >C16-C34	mg/L	0.10	-		-	< 0.1	0.6 0.6	0.5	0.5	0.4	0.1	0.1	0.2	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.1	0.6	0.2	0.3	0.6	0.2	< 0.1	0.2
TRH	TRH >C34-C40 TRH C10-C14	mg/L mg/L	0.10	- :	- :	-	< 0.1		0.1	0.1 < 0.05	0.2 < 0.05	< 0.1 < 0.05	< 0.1	< 0.1	< 0.1	< 0.1	0.1 < 0.05	< 0.1 < 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 0.19	< 0.1 0.21	< 0.1	< 0.1	< 0.1 0.11
1141	TRH C10-C36 (Total) TRH C15-C28	mg/L mg/L	0.05 0.10	-		-	< 0.05	1.42 1.42 1.1 1.1	0.67	0.6	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	0.1 < 0.1	1.21	0.3	0.59	0.81	0.2	< 0.1	0.21
	TRH C29-C36	mg/L	0.10				< 0.1	0.2 0.2	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.1	0.2	0.1	0.2	0.2	< 0.1	< 0.1	< 0.1
	TRH C6-C10 TRH C6-C10 less BTEX (F1)	mg/L mg/L	0.02	- :	- :	<u> </u>	< 0.02		0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02 < 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	TRH C6-C9	mg/L	0.02	-			< 0.02	0.03 < 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	Benzene Ethylbenzene	ug/L ug/L	1	950 80	- :	-	ব	ব ব	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BTEX	mip-xylene	ug/L	2	275 350				4 4 4 4	<2	<2	<2 €1	<2 d	<2	<2 €	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2 <1	<2
	o-xylene Toluene	ug/L ug/L	1	180	- :	<u> </u>	ব	2 2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Total Xylenes 4.4 - DDD	ugL	3 0.2	-	- :	-	<0.2		<3 <0.2	<0.2	<0.2	<0.2	<3 <0.2	<0.2	<0.2	<3 <0.2	<3 <0.2	<0.2	<0.2	<3 <0.2	<0.2	<0.2	<3	<3 <0.2	<0.2	<0.2	<3 <0.2
	4.4 - DDE	ug/L	0.2	-			<0.2	40.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2
	4.4 - DDT a - BHC	ug/L ug/L	0.2		-	- :	<0.2 <0.2	40.2 <0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2
	Aldrin Aldrin + Dieldrin (total)	ug/L	0.2	1			<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	b - BHC	uglL	0.2	- :	- :	- :	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2
	Chlordanes (total)	ugit	0.2	80		-	<0.2 <0.2	<0.2 <0.2 <0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2
	DDT + DDE + DDD (total)	ug/L	2	-			<2	Q Q	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	Dieldrin Endosulfan 1	ugiL	0.2	10	-	-	<0.2	<0.2 <0.2 <0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
OCP	Endosulfan 2	ug/L	0.2				<0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1	Endosulfan sulphate Endrin	ug/L ug/L	0.2 0.2	200 200			<0.2 <0.2	40.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2
	Endrin Aldehyde Endrin Ketone	ug/L ug/L	0.2	- :	- :		<0.2	<0.2 <0.2 <0.2 <0.2	<0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1	g-BHC (Lindane)	ug/L	0.2	200			<0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2
1	Heptachlor Heptachlor epoxide	ug/L ug/L	0.2	90			<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.2
1	Hexachlorobenzene Methoxychlor	ug/L	0.2				<0.2 <0.2		<0.2	<0.2	<0.2	<0.2 <0.2	<0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2
	Toxaphene	ug/L	0.2 5	200			<5	⋖\$ ≪	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Vic EPA WRG 621 OCP 9total) Vic EPA WRG 621 Other OCP (total)	ug/L	2 2				Q Q		<2	<2	- Q	<2 <	<2	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <	- 2	<2	<2	<2 <	<2 <	<2	<2	<2 <2	<2	<2	<2	<2 <2 <2	<2
	Aroclor-1016	ug/L	0.005	-			<5	<5 <5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 <5
1	Aroclor-1221 Aroclor-1232	ug/L	0.005 0.005				<5		<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	- 6	<5 <5	<5 <5	<5 <5	6	- 6 - 6	<5 <5	<5 <5	<5 <5	\$	<5 <5	<5 <5	\$	<5
PCB	Aroclor-1242	ug/L	0.005	600	-			ব ব	<5 <5	<5 <5	<5	- 6	<5 <5	<5	<5 55	<5 <5	<5	- 6	<5 <5	<5 <5	<5 <5	<5 <5	<5	<5 <5	<5 <5	<5	<5 <5
	Aroclor-1248 Aroclor-1254	ug/L ug/L	0.005	30			<5	<5 <5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Aroclor-1260 Total PCB*	ug/L ug/L	0.005	- :	- :		<5 <5	45 45 45 45	<5 <5	<5	<5	- 6	<5 <5	<5 - 5	≪ ≪	<5 <5	<5 <5	4	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
	Total coliforms	mpn/100ml	100	-		-	1700	1700 17000	1700				-	-	-	-	-	-	-	-	1	-	-	-		-	
Microbiological	E. Coli Thermotolerant coliforms	mpn/100ml mpn/100ml	100		230 1000		<100 <100	<100 <100	<100 <100	+ :	1	:	-	-:-	-	-	-	-	-	-	-	-	-	-	-	-	- : -
	Ammonia (as N)	mg/L	0.01	0.9	-		0.11	0.13 0.13	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Nitrate & Nitrite (as N) Nitrate (as N)	mg/L mg/L	0.05 0.02			100	0.1	0.11 0.11 0.1 0.1	0.1	+:	1																
Nutrients	Nitrite (as N)	mg/L	0.02	-		0.1		< 0.02 < 0.02	< 0.02	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Phosphate total (as P) Total Kjeldahi Nitrogen (as N)	mg/L mg/L	0.20			- 0.1	4.7	12 12	0.52 4.7	1	<u> </u>			_:	_:	_:	<u> </u>	<u> </u>	_:	<u> </u>	<u> </u>			<u> </u>	_:	_:	
	Total Nitrogen (as N)*	mg/L	0.20		-	125	4.8	12.11 12.11	4.8	-	-		-	-	-	_			L -	-	-	-	-			-	

Highlighted concentration exceeds the adopted site criteria - Australian & New Zusland Guidelines for Fresh & Martine Water Cuality (2019) 59% species protection guideline value Highlighted concentration exceeds the adopted site criteria - AMZECC & ANNICANZ (2009) Recreational Water Cuality (Secondary Contact) Highlighted concentration exceeds the adopted site criteria - Australian and New Zusland Guidelines for Fresh and Martine Water Cuality - Primary Industries - Rationale and Background Information No published criteria or sample not analyzed

NL Nat Liming

able 4. Soil Analysis
90-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW
ioil Results & Adopted Site Criteria
3546-FR-2-1

| Soil Results & Adopted Site C: 13546-ER-2-1 Group Arrents, An Caderium, Cd Conger, Co. Metals Metals Mickel, NI Acceptable Anthreaces Bennoble Be | Analyte d Cr Cr Sepanici Inne | Units POL | Screening Levels for Direct Contact (nghga) - CRC Care 2011 - 151 O Commercial bid ustral | Inhabation / Vapour Intrusion MSL on (CLAY) MSL to (CLAY) MSL - D Commercial thicks trial 0 m to of m | Management Limits for TPV Fractions F1. F4 in soil (mg/Kg) | Mealth Investigation Levels for Solid Contentiants - NEPN 2013 Commercially Medical Discourse Commercially Commercially Commercially Commercially Commercially Commercially Commercially Commercially Commercially Commercial Commerci | Products (NSW EPA 2000) Stabilisation Grade A Microbiological Standards | Date Set Date Set
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< 0.5 < 0
 | .2 1.2
0.5 < 0.5
0.5 < 0.5 | 1.2
< 0.5
< 0.5 | 1.2 | < 0.5
0.6
1.2 | < 0.5
0.6
1.2 | < 0.5
0.6
1.2
 | < 0.5 < 0
0.6 0.
1.2 1. | .5 < 0.5
8 0.6
2 1.2 | < 0.5
0.7
1.2 | 1.3 | 1.3 | 1.2 | 1.2
 | < 0.5
0.6
1.2 | < 0.5
< 0.5
< 0.5
< 0.5
0.6
1.2
< 0.5
< 0.5 | < 0.5
0.6
1.2 | 1.2 | 1.2
< 0.5
< 0.5
< 0.5
 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5
 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5 |
| Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Bennois japrane Distriction japrane Distri | since mon TEQ (Gover bound) man TEQ (Gover b | mplg 0.5 | | | | | | 40.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <
 | 0.5 < 0.5
1.5 < 0.5
7 0.6
3 1.2
5 < 0.5
1.5 < 0.5
8 < 0.5
1 < 0.5 | < 0.5
< 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
 | <0.5 < 0
0.6 0.0
1.2 1.2
< 0.5 < 0
< 0.5 < 0
< 0.5 < 0 | .2 1.2
0.5 < 0.5
0.5 < 0.5 | 1.2
< 0.5
< 0.5 | 1.2 | < 0.5
0.6
1.2
 | < 0.5
0.6
1.2 | < 0.5
0.6
1.2 | < 0.5 < 0
0.6 0.
1.2 1. | .5 < 0.5
8 0.6
2 1.2
 | < 0.5
0.7
1.2 | 1.3 | 1.3 | 1.2 | 1.2 | < 0.5
0.6
1.2 | < 0.5
< 0.5
< 0.5
0.6
1.2
< 0.5
 | < 0.5
0.6
1.2 | 1.2 | 1.2
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5 |
| Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Fluorente Fluorente Bennois jumms Bennois jumms Bennois jumms Bennois jumms Bennois jumms Fluorente Fluorente Fluorente Tennois jumms Tennois | mon TEQ (over bound) mon TEQ (over bound) mon TEQ (medium bound) mon TEQ (medium bound) mon TEQ (medium bound) monthlesse apartition of text | mmpla | | | | | | 40.5 <0.0 0.6 0.3 1.2 12. 40.5 0.9 40.5 <0.0 40.5 1 40.5 1 40.5 0.3 40.5 0.3 40.5 0.3 40.5 0.3
 | 0.5 < 0.5
7 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
 | <0.5 < 0
0.6 0.0
1.2 1.2
< 0.5 < 0
< 0.5 < 0
< 0.5 < 0 | .2 1.2
0.5 < 0.5
0.5 < 0.5 | 1.2
< 0.5
< 0.5 | 1.2 | < 0.5
0.6
1.2
 | < 0.5
0.6
1.2 | < 0.5
0.6
1.2 | < 0.5 < 0
0.6 0.
1.2 1. | .5 < 0.5
8 0.6
2 1.2
 | < 0.5
0.7
1.2 | 1.3 | 1.3 | 1.2 | 1.2 | < 0.5
0.6
1.2 | < 0.5
0.6
1.2
< 0.5
< 0.5
 | < 0.5
0.6
1.2 | 1.2 | 1.2
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5
< 0.5 | < 0.5
0.6
1.2
< 0.5
< 0.5
< 0.5 |
| Benzole jayene Benzole jayene Benzole jayene Benzole jayene Benzole jayene Benzole jayene Benzole jayene Finanse Finan | non TEQ (intellum bound) non TEQ (intellum bound) non TEQ (intellum bound) non TEQ (intellum bound) normalism normal | mg/kg 0.6 mg/kg 1.2 mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 | | | - | 40
40
 | | 1.2 1.1 <0.5 0.1 <0.5 <0.0 <0.5 1 <0.5 1 <0.5 <0.0 <0.5 1 <0.5 <0.0 <0.5 0.3
 | 3 1.2
.5 < 0.5
0.5 < 0.5
8 < 0.5
1 < 0.5 | < 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2 1
<0.5 <
<0.5 <
<0.5 <
<0.5 <
 | 1.2 1.3
< 0.5 < 0
< 0.5 < 0
< 0.5 < 0 | .2 1.2
0.5 < 0.5
0.5 < 0.5 | 1.2
< 0.5
< 0.5 | 1.2 | 1.2
 | 1.2 | 1.2 | 1.2 1. | 2 1.2
 | 1.2 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 0.6
1.2
< 0.5
 | 1.2 | 1.2 | 1.2
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5 |
| Benergiskijfloord Benergiskijfloord Benergiskijfloord Benergiskijfloord Distraction Allender Fluorentenen Hederoft 3-2-city Negotischer Processes Tractal PAM TRIN 1-05-C16 TRIN 1-05-C1 | Illustration | mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 | | | | | - | 1.2 1.1 <0.5 0.1 <0.5 <0.0 <0.5 1 <0.5 1 <0.5 <0.0 <0.5 1 <0.5 <0.0 <0.5 0.3
 | 3 1.2
.5 < 0.5
0.5 < 0.5
8 < 0.5
1 < 0.5 | < 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2 1
< 0.5 <
< 0.5 <
< 0.5 <
< 0.5 <
 | 1.2 1.3
< 0.5 < 0
< 0.5 < 0
< 0.5 < 0 | .2 1.2
0.5 < 0.5
0.5 < 0.5 | 1.2
< 0.5
< 0.5 | 1.2 | 1.2
< 0.5
 | 1.2
< 0.5 | 1.2 | 1.2 1. | 2 1.2
 | 1.2 | 1.3 | 1.3
0.5 | 1.2
< 0.5 | 1.2 | 1.2 | 1.2
< 0.5
< 0.5
 | 1.2
< 0.5
< 0.5 | 1.2 | 1.2
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5
 | 1.2
< 0.5
< 0.5
< 0.5
< 0.5 | 1.2
< 0.5
< 0.5
< 0.5 |
| PAM Benneightipperd Benneighti | sopiene constituene lantificacione le le lo lo lo lo lo lo lo lo lo lo lo lo lo | mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 | | - | | | - | <0.5 <0. <0.5 0.1 <0.5 1 <0.5 <0. <0.5 <0. <0.5 0.3 <0.5 0.3
 | .5 < 0.5
0.5 < 0.5
8 < 0.5
1 < 0.5 | < 0.5
< 0.5
< 0.5 | < 0.5
< 0.5
< 0.5 | < 0.5 < < 0.5 < < 0.5 <
 | < 0.5 < 0
< 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | | |
 | | | 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5
< 0.5
< 0.5 | < 0.5
< 0.5 | < 0.5
< 0.5
< 0.5 | < 0.5
< 0.5
 | < 0.5
< 0.5
< 0.5 | < 0.5
< 0.5 |
| Benearly Moures Observace Abanas Fluorenthese Pluorenthese Indexed 12-3-cd Nagolithanse Pluorenthese Indexed 12-3-cd Nagolithanse Pluorenthese Total Pluorenthese T | oranthone | mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 | | | | | | <0.5 0.8 <0.5 1 <0.5 <0.5 <0.5 0.3 <0.5 0.3
 | 8 < 0.5
1 < 0.5 | < 0.5 | < 0.5 | < 0.5 <
 | | 0.5 < 0.5 | < 0.5 | |
 | < 0.E | < 0.5 | < 0.5 < 0 | .5 < 0.5
 | < 0.5 | - 0.5 | -0- | | | |
 | < 0.0 | < 0.5 | < 0.5 | < 0.5 | < 0.5
< 0.5
 | < 0.5
< 0.5 | |
| Chrysne Dibenscelpharia Floorinthree Floorin | | mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 | | | :
:
:
: | | | <0.5 1
<0.5 <0.
<0.5 0.3
<0.5 0.3
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 <
 | | | | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0.5 | 5 < 0.5
 | 0.5 | 0.7 | 0,8 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | |
| Fluorents Badenot12.3-cd Maphhalmo Fluorents Fluorents Fluorents Total PAM TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 | Initinzence | mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 0.5 mg/kg 100 mg/kg 100 mg/kg 100 mg/kg 100 | | | | | | <0.5 0.5
<0.5 0.1
 | 0.5 < 0.5
7 < 0.5 | < 0.5 | | .05
 | | 0.5 < 0.5 | | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0 | .5 < 0.5
 | 0.8 | 0.9 | 1 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | | |
 | | |
| Fluorents Badenot12.3-cd Maphhalmo Fluorents Fluorents Fluorents Total PAM TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 TRN -510-516 | 10 | mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 100 mgikg 100 mgikg 100 mgikg 100 | | :
:
:
: | :
:
: | | | <0.5 0.8
 | 7 < 0.5 | | | < 0.5
 | < 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0 |
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 |
| Naphthalone | | mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 50 mgikg 50 mgikg 100 mgikg 100 mgikg 100 mgikg 100 | | | | | | -U.5 0.1
 | | < 0.5 | < 0.5 | < 0.5 <
 | < 0.5 < 0 | 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0 | 5 < 0.5
 | 0.7 | 0.7 | 0.7 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 |
| Naphthalone | e ne | mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 0.5 mgikg 50 mgikg 50 mgikg 100 mgikg 100 mgikg 100 | | : | | : | | <0.5 0.6
 | 8 < 0.5
6 < 0.5 | < 0.5 | < 0.5 | < 0.5 <
 | < 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0.5 | .5 < 0.5
 | 0.8 | 8.0 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 |
| Pymne Total PAH TRN > C10-C16 TRN > C10-C16 TRN > C10-C16 TRN > C10-C21 TRN > C10-C21 TRN > C10-C22 TRN C20-C22 TRN C20-C22 TRN C20-C23 TRN C20-C36 TRN C20-C36 TRN C20-C36 TRN C20-C36 | 516
15 loss Naphthalene (F2)
404 (total)*
324 (F3)
404 (F4) | mg/kg 0.5
mg/kg 0.5
mg/kg 50
mg/kg 50
mg/kg 100
mg/kg 100
mg/kg 100 | - | | | | | <0.5 0.5
 | .5 < 0.5 | < 0.5 | < 0.5 | < 0.5 <
 | < 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0 |
 | < 0.5 | < 0.5 | 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | | < 0.5 |
| TRH >C10-C16 TRH>C10-C16 TRH>C10-C16 TRH>C10-C40 TRH>C16-C34 TRH C10-C34 TRH C10-C34 TRH C10-C34 TRH C10-C36 TRH C36-C36 TRH C36-C36 TRH C36-C36 | 516
15 loss Naphthalene (F2)
404 (total)*
324 (F3)
404 (F4) | mg/kg 0.5
mg/kg 0.5
mg/kg 50
mg/kg 50
mg/kg 100
mg/kg 100
mg/kg 100 | - | | | | | <0.5 0.3
 | 7 < 0.5 | < 0.5 | < 0.5 | < 0.5 <
 | < 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 < 0 | .5 < 0.5
 | 0.6 | 0.6 | 0.7 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 |
| TRN >C10-C16 TRN >C10-C16 TRN >C10-C40 TRN >C16-C44 TRN =C10-C44 TRN C10-C44 TRN C10-C36 TRN C30-C36 TRN C30-C36 TRN C30-C36 TRN C30-C36 TRN C30-C36 TRN C30-C36 | 116 iss Naphthalene (F2) 140 (total)* 134 (F3) 140 (F4) 141 | mgikg 50
mgikg 50
mgikg 100
mgikg 100
mgikg 100 | - | | | <u></u> | - | <0.5 0.1
 | 8 < 0.5
3 < 0.5 | < 0.5 | < 0.5 |
 | < 0.5 < 0
< 0.5 < 0 | 0.5 < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | 5 < 0.5
 | 0.6
6.2 | 0.8 | 0.7
8.3 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | | < 0.5 |
| TRH >C10-C16 I
TRH >C10-C26 I
TRH >C10-C26 I
TRH >C34-C40 (
TRH C10-C36 I
TRH C10-C36 I
TRH C15-C26
TRH C25-C36
TRH C5-C10 | (16 less Naphthalene (F2)
(40 (total)*
(34 (F3)
(40 (F4) | mg/kg 50
mg/kg 100
mg/kg 100
mg/kg 100 | - | | | 4000 | | <0.5 8.1
<50 51
 | 1 <50 | < 50
< 50 | |
 | < 0.5 < 0
< 50 < 5 | 50 < 50.5 | < u.5
< 50 | < 50 | < U.5
 | < 50 | < 50 | | 0 < 50
 | 6.2
< 100 | 5.9
< 100 | 8.3
< 50 | < U.5
< 50 | < U.5
< 50 | < U.5
< 50 | < 0.5
 | < 0.5 | < U.5
< 50 | < U.5 | < 50.5 | < 0.5
 | < 50 | < 0.5 |
| TRH >C16-C34 (TRH >C34-C40 (TRH C10-C14 TRH C10-C14 TRH C10-C36 (T TRH C15-C28 TRH C29-C36 TRH C5-C36 | (40 (total)*
(34 (F3)
(40 (F4) | mg/kg 100
mg/kg 100
mg/kg 100 | | NL | 1000 | | | <50 51
 | 1 < 50 | < 50 | < 50 |
 | <50 <5 | 50 < 50 | < 50 | < 50 | 51
 | < 50 | < 50 | < 50 < 5 |
 | < 100 | < 100 | < 50 | < 50 | < 50 | < 50 | < 50
 | < 50 | < 50 | < 50 | < 50 | < 50
 | < 50 | < 50 |
| TRH >C34-C40 (TRH C10-C14 TRH C10-C36 (T TRH C15-C28 TRH C29-C36 TRH C6-C10 | 234 (F3)
240 (F4) | mg/kg 100
mg/kg 100 | | | - | | | <100 135
 | 50 < 100 | < 100 | | < 100 <
 | 100 < 10 | 100 < 100 | < 100 | < 100 | 351
 | < 100 | | < 100 12 |
 | 1350 | 1110 | 510 | < 100 | < 100 | | < 100
 | < 100 | < 100 | 110 | 120 | < 100
 | < 100 | < 100 |
| TRH TRH C10-C14 TRH C10-C36 (T TRH C15-C28 TRH C29-C36 TRH C6-C10 | 4 | mg/kg 100 | | | 5000 | - | | <100 56
 | | < 100 | < 100 |
 | < 100 < 10 | 100 < 100 | < 100 | < 100 | 190
 | | < 100 | < 100 12 | 0 < 100
 | 560 | 510 | | < 100 | < 100 | < 100 | < 100
 | < 100 | < 100 | 110 | < 100 | < 100
 | | < 100 |
| TRH C10-C36 (T
TRH C15-C28
TRH C29-C36
TRH C6-C10 | 96 (Total) | | 38,000 | | 10000 | • | | <100 79
<20 <2
 | 90 < 100 | < 100 | < 100 | < 100 <
 | < 100 < 10 | 100 < 100 | < 100 | < 100 | 110
 | < 100 | < 100 • | <100 <1 | 00 < 100
 | 790 | 600 | 260 | < 100 | < 100 | < 100 | < 100
 | < 100 | < 100 | < 100 | 120 | < 100
 | < 100 | < 100 |
| TRH C15-C28
TRH C29-C36
TRH C6-C10 | 20 | mg/kg 20
mg/kg 50 | - | - | - : | : | - |
 | 30 < 50 | < 50 | < 50 | < 50 <
 | < 50 < 5 | 50 < 50 | < 50 | < 50 | 258
 | < 50 | < 50 | < 50 14 | 5 < 50
 | 730 | 660 | 330 | < 50 | 72 | 57 | < 50
 | 54 | < 50 | 110 | 87 | < 50
 | < 50 | < 50 |
| TRH C6-C10 | | mg/kg 50 | - | | - | - | | <50 21
 | 10 < 50 | < 50 | < 50 | < 50 <
 | < 50 < 5 | 50 < 50 | < 50 | < 50 | 160
 | < 50 | < 50 | < 50 6 | < 50
 | 210 | 170 | 110 | < 50 | < 50 | < 50 | < 50
 | < 50 | < 50 | < 50 | < 50 | < 50
 | < 50 | < 50 |
| | 96 | mg/kg 50
mg/kg 50
mg/kg 50 | | | | - | • | <50 52
 | 20 < 50 | < 50 | < 50 | < 50 <
 | < 50 < 5 | 50 < 50 | < 50 | < 50 | 98
 | < 50 | < 50 | < 50 8 | < 50
 | 520 | 490 | 220 | < 50 | 72 | 57 | < 50
 | 54 | < 50 | 110 | 87 | < 50
 | < 50 | < 50 |
| |) | mg/kg 20 | 26,000 | | - | • | | <0 <2
 | | < 20 | < 20 | < 20 <
 | < 20 < 2 | 20 < 20 | < 20 | < 20 | < 20
 | < 20 | < 20 | < 20 < 2 | 0 < 20
 | < 20 | < 20 | < 20 | < 20 | < 100 | < 20 | < 20
 | < 20 | < 20 | < 20 | < 20 | < 20
 | < 20 | < 20 |
| TRH C6-C9 | riess BTEX (FT) | mg/kg 20
mg/kg 20 | - | 310 | - | : | - | <20 <2
 | 20 < 20 | < 20 | < 20 | < 20 <
 | < 20 < 2 | 20 < 20 | < 20 | < 20 | < 20
 | < 20 | < 20 | <20 <2 | 0 < 20
 | < 20 | < 20 | < 20 | < 20 | < 100 | < 20 | < 20
 | < 20 | < 20 | < 20 | < 20 | < 20
 | < 20 | < 20 |
| Benzene | | mg/kg 0.1 | 430 | 4 | - | | | <0.1 <0.
 | 1.1 <0.1 | <0.1 | <0.1 | <0.1 <
 | <0.1 <0. | 0.1 <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 <0 | 1 <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 |
| Ethylbenzene | 10 | mg/kg 0.1 | 430
27000 | NL | - | | | <0.1 <0.
 | 1.1 <0.1 | <0.1 | <0.1 | <0.1 <
 | <0.1 <0. | 0.1 <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 <0 | 1 <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 |
| BTEX m/p-xylene | | mg/kg 0.2 | | | - | - | | <0.2 <0.
 | | <0.2 | <0.2
<0.1 | <0.2 <
 | <0.2 <0. | 0.2 <0.2 | <0.2 | <0.2 | <0.2
 | <0.2 | <0.2
<0.1 | <0.2 <0 | 2 <0.2
 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2
 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2
 | <0.2 | <0.2 |
| Toluene | | mg/kg 0.1 | 99000 | - NI | | - | | Q1.1 Q1.
Q1.1 Q1.
 | | <0.1 | <0.1 | 40.1
 | <0.1 <0. | 0.1 <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 <0 | 1 <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1
 | <0.1 | <0.1 |
| Total Xylenes | 15 | mg/kg 0.1
mg/kg 0.3 | 81000 | NL NL | | : | - | <0.3 <0.
 | | <0.3 | <0.3 | <0.3
 | <0.3 <0. | 0.3 | <0.3 | <0.3 | <0.3
 | <0.3 | <0.3 | <0.3 <0 | 3 <0.3
 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3
 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3
 | <0.3 | <0.3 |
| 4.4 - DDD | | mg/kg 0.05
mg/kg 0.05
mg/kg 0.05 | | | - | • | | <0.05 <0.0
 | 05 < 0.05 | - | |
 | 0.05 < 0. | 1.05 - | | < 0.05 |
 | | < 0.05 | | < 0.05
 | - | | | < 0.05 | < 0.05 | | < 0.05
 | | - | < 0.05 | |
 | | < 0.05 |
| 4.4 - DDE | | mg/kg 0.05 | • | | - | - | | <0.05 <0.0
<0.05 <0.0
 | 05 < 0.05 | | |
 | 0.05 < 0. | | | < 0.05 |
 | | < 0.05 | | < 0.05
 | | - | | < 0.05 | | | < 0.05
 | - | - | < 0.05 | - |
 | | < 0.05 |
| 4.4 - DD1 | | mg/kg 0.05 | - | | | | | <0.05 <0.0
 | | | |
 | 0.05 < 0. | 1.05 - | - : | < 0.05
< 0.05 |
 | | < 0.05
< 0.05 | | < 0.05
 | | - : | - : | < 0.05
< 0.05 | < 0.05
< 0.05 | | < 0.05
 | - | - | < 0.05
< 0.05 | |
 | | < 0.05
< 0.05 |
| Aldrin | | mg/kg 0.05 | | | - | | - | <0.05 <0.0
 | .05 < 0.05 | - | - | < 0.05 < 0
 | 0.05 < 0. | | | < 0.05 |
 | < 0.05 | < 0.05 | | < 0.05
 | | - : | | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | - | - | < 0.05 | - |
 | | < 0.05 |
| Aldrin + Dieldrin | Idrin (total) | mg/kg 0.05
mg/kg 0.05
mg/kg 0.05 | | | - | 45 | | <0.05 <0.0
 | .05 < 0.05 | | |
 | 0.05 < 0. | | | < 0.05 |
 | < 0.05 | < 0.05 | | < 0.05
 | | - | | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | | - | < 0.05 | - |
 | | < 0.05 |
| b - BHC | | mg/kg 0.05
mg/kg 0.1 | • | | - | | | <0.05 <0.0
 | | - | | < 0.05 < 0
 | 0.05 < 0. | .05 - | | < 0.05
< 0.1 |
 | < 0.05 | < 0.05 | | < 0.05
 | - | - | | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | - | - | < 0.05
< 0.1 | - |
 | | < 0.05
< 0.1 |
| Chlordanes (tot | | mg/kg 0.1
mg/kg 0.05 | - | - | | 530 | - | <0.1 <0.
 | 0.1 < 0.1
05 < 0.05 | | | < 0.1 < 0.05 < 0
 | 0.1 <0 | 0.1 - | - : | < 0.1 | - :
 | < 0.1 | < 0.1
< 0.05 | | < 0.1
 | | - : | - : | < 0.1
< 0.05 | < 0.1 | < 0.1 | < 0.1
 | - | - | < 0.1 | |
 | | < 0.1 |
| DDT + DDE + DD | | | | | | 3600 | | <0.05 <0.0
<0.05 <0.0
 | 05 < 0.05 | - | - | < 0.05 < 0
 | 0.05 < 0. | 1.05 - | - | < 0.05
< 0.05 |
 | < 0.05 | < 0.05 | | < 0.05
 | - | - | - | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | - | - | < 0.05
< 0.05 | - | -
 | - | < 0.05 |
| Dieldrin | | mg/kg 0.05
mg/kg 0.05 | - | | | | - | <0.05 <0.0
 | .05 < 0.05 | - | |
 | 0.05 < 0. | .05 - | - | | -
 | | < 0.05 | | < 0.05
 | - | | - | < 0.05 | | | < 0.05
 | - | - | < 0.05 | - | -
 | | < 0.05
< 0.05 |
| Endosulfan 1 OCP Endosulfan 2 | 1 | mg/kg 0.05 | | | | 2000
2000 | | <0.05 <0.0
 | | | |
 | 0.05 < 0. | 1.05 - | | < 0.05
< 0.05 | -
 | < 0.05
< 0.05 | < 0.05 | - - | < 0.05
 | - | - | - | < 0.05
< 0.05 | < 0.05
< 0.05 | < 0.05 | < 0.05
 | - | | < 0.05
< 0.05 | | -
 | | < 0.05 |
| OCP Endosulfan 2
Endosulfan sulp | sulphate | mg/kg 0.05
mg/kg 0.05 | | | | 2000 | | <0.05 <0.0
<0.05 <0.0
 | .05 < 0.05
.05 < 0.05 | + : - | |
 | 0.05 < 0. | 1.05 | - | < 0.05 |
 | | < 0.05 | | < 0.05
 | | - | + : | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | | | | -:- | -:-
 | - | < 0.05
< 0.05 |
| Endrin | | | | | | 100 | | <0.05 <0.0
 | .05 < 0.05 | | - | < 0.05 < 0
 | 0.05 < 0. | 1.05 - | | < 0.05
< 0.05 | -
 | < 0.05 | < 0.05 | - L - | < 0.05
 | - | | - | < 0.05 | < 0.05 | < 0.05
< 0.05
< 0.05 | < 0.05
 | | - | < 0.05
< 0.05 | - |
 | | < 0.05 |
| Endrin Aldehyde | hyde | mg/kg 0.05
mg/kg 0.05 | - | | | | | <0.05 <0.0
<0.05 <0.0
 | | | | < 0.05 < (
 | | | _ | < 0.05 | -
 | < 0.05 | < 0.05 | - - | < 0.05
 | | - | | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | - | - | < 0.05 | |
 | | < 0.05 |
| Endrin Ketone
g-BHC (Lindane | ine
(ann) | mg/kg 0.05 | | | | | | <0.05 <0.0
 | | | |
 | 0.05 < 0. | | - | < 0.05 |
 | < 0.05 | < 0.05
< 0.05 | : | < 0.05
 | - | - | - | < 0.05 | < 0.05
< 0.05 | < 0.05 | < 0.05
 | - | | < 0.05 | - | -
 | - | < 0.05
< 0.05 |
| g-BHC (Lindane
Heptachlor | | mg/kg 0.05
mg/kg 0.05 | | | | 50 | | <0.05 <0.0
 | .05 < 0.05 | - : - | | < 0.05
 | | | - | < 0.05
< 0.05 |
 | < 0.05 | | | < 0.05
 | - | - | - | < 0.05
< 0.05 | < 0.05 | < 0.05 | < 0.05
 | - | | < 0.05
< 0.05 | - : | - : -
 | | < 0.05 |
| Heptachlor epos | epoxide | mg/kg 0.05 | | | | | | <0.05 <0.0
 | .05 < 0.05 | | | < 0.05 < 0
 | 0.05 < 0. | 1.05 | | < 0.05 |
 | < 0.05 | < 0.05 | | < 0.05
 | - | | | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | | | < 0.05 | |
 | | < 0.05 |
| Hexachlorobenz | benzene | mg/kg 0.05
mg/kg 0.05 | | | | 80 | | <0.05 <0.0
 | | - | |
 | | .05 - | - | < 0.05 |
 | | | - - | < 0.05
 | - | - | - | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | | - | < 0.05 | |
 | | < 0.05 |
| Methoxychlor | or | mg/kg 0.05
mg/kg 0.5 | | | | 160 | | <0.05 <0.0
<0.5 <0.0
 | | - | - |
 | < 0.05 < 0.0
< 0.5 < 0.0 | 1.05 - | | < 0.05
< 0.5 |
 | < 0.05 | < 0.05
< 0.5 | | < 0.05
 | - | - | - | < 0.05
< 0.5 | < 0.05
< 0.5 | < 0.05
< 0.5 | < 0.05
 | - | | < 0.05
< 0.5 | | -
 | | < 0.05
< 0.5 |
| Toxaphene
Vic EPA IWRG 6 | | | | | | 100 | | <0.1 <0.
 | 1.1 < 0.1 | - : - | -:- |
 | < 0.1 < 0 | 0.1 | - | < 0.1
< 0.1 | - : +
 | < 0.1
< 0.1 | < 0.1 | | < 0.1
 | - | - | - | < 0.1 | < 0.5
< 0.1 | < 0.5 | < 0.1
 | - | | < 0.5 | - : | - : -
 | | < 0.1 |
| Vic EPA IWRG 6 | RG 621 Other OCP (total) | mg/kg 0.1
mg/kg 0.1 | | | | | | <0.1 <0.
 | | | | < 0.1 <
 | < 0.1 < 0 | 0.1 - | | < 0.1 |
 | < 0.1 | < 0.1 | | < 0.1
 | | | | | | | < 0.1
 | | - | < 0.1 | |
 | | < 0.1 |
| Aroclor-1016 | 6 | mg/kg 0.1
mg/kg 0.1 | | | | | - | <0.1 <0.
 | 1.1 < 0.1 | - | - | < 0.1 <
 | < 0.1 < 0 | 0.1 - | | < 0.1 | -
 | < 0.1 | < 0.1 | | < 0.1
 | | | - | < 0.1 | < 0.1 | < 0.1 | < 0.1
 | | - | < 0.1 | |
 | | < 0.1 |
| Aroclor-1221 | 1 | mg/kg 0.1 | | | | | | <0.1 <0.
 | | +:+ | -:- | < 0.1 < < 0.1 <
 | <0.1 <0 | 0.1 | | < 0.1 | -:-
 | < 0.1 | < 0.1 | : + : | < 0.1
 | - | - | + : | < 0.1 | < 0.1 | < 0.1 | < 0.1
 | + :- | | < 0.1 | - : - | -:-
 | - | < 0.1 |
| Aroclor-1232
PCR Aroclor-1242 | 2 | mg/kg 0.1
mg/kg 0.1 | | | | | | <0.1 <0.
 | 1.1 < 0.1
1.1 < 0.1 | + : + | | < 0.1
 | < 0.1 < 0
< 0.1 < 0 | 0.1 | | < 0.1 |
 | < 0.1 | < 0.1
< 0.1 | - 1 | < 0.1
 | + : | 1 : | 1 : | < 0.1
< 0.1 | < 0.1 | < 0.1 | < 0.1
 | 1 : | 1 - | < 0.1 | | - : +
 | - | < 0.1 |
| Aroclor-1248 | 8 | mg/kg 0.1 | | | | | | <0.1 <0.
 | 1.1 < 0.1 | | | < 0.1 <
 | < 0.1 < 0 | 0.1 - | | < 0.1 |
 | < 0.1 | < 0.1 | - L - | < 0.1
 | | | - | < 0.1 | < 0.1 | < 0.1 | < 0.1
 | | - | < 0.1 | - |
 | | < 0.1 |
| Aroclor-1254 | 4 | malka 0.1 | | | | | | <0.1 <0.
 | 1.1 < 0.1 | + - 7 | | < 0.1 <
 | < 0.1 < 0 | 0.1 - | | < 0.1 | - 1
 | < 0.1 | < 0.1 | - - | < 0.1
 | | | - | < 0.1 | < 0.1 | < 0.1 | < 0.1
 | | | < 0.1 | | - 7
 | | < 0.1 |
| Aroclor-1260
Total PCB* | • | mg/kg 0.1
mg/kg 0.1
MPN/g 10
MPN/g 10 | | | | ; | | <0.1 <0.
 | 0.1 < 0.1 | +:+ | -:- | < 0.1 <
 | < 0.1 < 0
< 0.1 < 0 | 0.1 | | < 0.1 | -:-
 | < 0.1
< 0.1 | < 0.1 | : + : | < 0.1
 | - | - | + : | < 0.1
< 0.1 | < 0.1 | < 0.1
< 0.1 | < 0.1
 | + :- | | < 0.1 | - : - | -:-
 | - | < 0.1 |
| Total PCB* Total coliforms | ms | MPN/g 10 | | | | - : | 1000 | <10 >240
 | 000 | | - : | 24000 <
 | | 100 - | | ×0.1 |
 | | >24000 2 | 20000 | < 0.1
 | + : | - | | <10 | | | × 0.1
 | | | NO.1 | | -:-
 | | <10 |
| Microbiological E. Coli | | MPN/g 10 | | | | | 100 | <10 <1
 | 10 - | : | | | | |
 | <10 <1 | 10 - | | |
 | <10 | <10 | <10 |
 | | | | <10 | <10 | |
 | | | | |
 | | <10 |
| Thermotolerant | rant coliforms | MPN/g 10 | - | | | | 1000 | <10 10
 | 0 - | - 1 | - | <10 <
 | <10 10 | 0 - | | | -
 | <10 | <10 | <10 . |
 | | - | | <10 | <10 | <10 | -
 | | - | - | |
 | | <10 |
| Ammonia (as N) | s N) | mg/kg 5 | | | | • | | <5 330
 | | | | 1400
 | 20 < | 5 - | | | | |
 | 1700 | 2000 | 7.3 |
 | | | - | 2200 | 3300 | < 5 |
 | | | - 1 | - 1 | - 1
 | | 1600 |
| Nitrate & Nitrite
Nitrate (as N) | trite (as N) | mg/kg 5
mg/kg 5 | | | | | | 5 110
<5 110
 | 000 - | +:+ | |
 | 69 6.1 | .8 - | - | + : | -:-
 | 2000
2000 | 3100 | 5 - |
 | - | | + : | 4500 | 11000 | 5.2
< 5 | + :-
 | + :- | | -:- | - | - : -
 | - | 1200 |
| Nutrients Nitrate (as N) | 1 | mg/kg 5 | | | | | | <5 <
 | | +:+ | -:- | |
 | | 5 - | - : | 1 : |
 | | | <5 . |
 | | 1 : | 1 : | 4500
< 5 | | | 1 :
 | 1 : | : | -:- | | - : -
 | | < 5 |
| Phosphate total | | mg/kg 5 | | | | | | 460 110
 | | | - | 580 4
 | 460 91 | | | | -
 | 780 | 600 | 1300 - |
 | | 1 : | | 840 | 11000 | 860 |
 | T : | - | | - | -
 | - | 1800 |
| Total Kjeldahi N | hl Nitrogen (as N) | mg/kg 10 | - | | | - | - | 32 460
38.8 127
 | 00 - | - | - | 1200 3
4700 4
 | 370 32 | 2 - | - | | -
 | 2900 | 3400
6500 | 2200 - | -
 | - | - | - | 2100 | 1700 | 2500
2505.2 | -
 | - | - | - | | -
 | | 3200
4400 |
| Total Nitrogen (| en (as N)* | mg/kg 10 | | | | | | 38.8 127
 | 700 - | | | 4700 4
 | 439 38. | 3.8 - | | |
 | 4900 | 6500 | 2205 - | -
 | - | | | 6600 | 12700 | 2505.2 | -
 | | - | | - | -
 | - | 4400 |

ible 4. Soli Arialysis	
0-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	
oil Results & Adopted Site Criteria	
8546-ER-2-1	

T-11-4-0-74	to to							Sample	ID I TOSCOO O	2 TD22 0 0 0	1 TD00 0 0 0 0	T024000	2 7025 0 0 0 2	TD10 0 0 0	0.1 TP37-0.0-0.1	1 TD20 0 0 0	2 7020.00.01	T T T T T T T T T T T T T T T T T T T	7 70410001	I TRASCOCA	I TRANSPORT	T0440004	TD60 0004	TDE1 0001	I TRES COOL	I TDE2 000	1 7054 0004	TDC4 000	1 7002 000	I TRESONO	4 TD64 0004	TDEE OOO	4 Thee 000	1 TD70 000	1 TP74 000	4 TD70 000	I TROO O O O	T002 0004
Table 4. Soil Ana 290-308 Aldingto	on Road and 59-63 Abbotts Road, Kem	nps Creek NSW						Refere	nce \$21-0e3851	5 S21-Oc3851	6 S21-Oc38517	S21-Oc3851	18 S21-Oc38519	\$21-Oc385	120 S21-Oc38521	1 \$21-Oc3852	22 S21-Oc38523	\$21-Oc38524	S21-No17421	S21-No17422	S21-No17423	S21-No17424	S21-No02560	S21-No02561	\$21-No02562	\$21-No0256	8 S21-No02569	S21-No025	74 S21-No0257	5 S21-No3696	62 S21-No02581	S21-No0258	2 S21-No02581	3 S21-No026	01 S21-No026	02 S21-No0260	9 S21-No02610	S21-No02611
Soil Results & A 13546-ER-2-1	dopted Site Criteria							Sample Ma	strix Soil	8/10/2021 Soil	8/10/2021 Soil	8/10/2021 Soil	8/10/2021 Soil	8/10/2021 Soil	1 8/10/2021 Soil	8/10/2021 Soil	8/10/2021 Soil	8/10/2021 Soil	12/10/2021 Soil	12/10/2021 Soil	12/10/2021 Soil	12/10/2021 Soil	15/10/2021 Soil	15/10/2021 Soil	15/10/2021 Soil	15/10/2021 Soil	15/10/2021 Soil	18/10/202 Soil	1 18/10/2021 Soil	18/10/2021 Soil	1 18/10/2021 Soil	18/10/2021 Soil	18/10/2021 Soil	19/10/202 Soil	1 19/10/2021 Soil	1 19/10/2021 Soil	19/10/2021 Soil	19/10/2021 Soil
Group	Analyte	Units PQL	Screening Levels for Direct Contact (mg/kg) - CRC Care 2011	Inhalation / Vapour Intrusion HSLs (mg/kg) - NEPC 2013 (CLAY)	Management Limits for TPH Fractions F1 - F4 in soil (mg/Kg) - NEPC 2013	Health Investigation Levels for Soil Contaminants - NEPM 2013	Use and Disposal of Biosolids Products (NSW EPA 2000)																															
Gloup	Anaya	oma ruc	HSL - D Commercial/Industrial	HSL - D Commercial/Industrial 0 m to <1 m	Commercial and Industrial (fine)	Commercial/Industrial D	Stabilisation Grade A Microbiological Standards	Data Set Data : Minimum Maxim																														
	Arsenic, As Cadmium, Cd	mg/kg 2 mg/kg 0.4 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 0.1		:	- :	3000 900	- :	2.7 21 <0.4 0.5	21 < 0.4	11 < 0.4	11 < 0.4	9.5 < 0.4	9.8	6.6 < 0.4	4 < 0.4	8.3 < 0.4	2.8	12 < 0.4	5.2 < 0.4	7.7 0.5	9.6	4.7 < 0.4	11 < 0.4	12 < 0.4	14 < 0.4	9.1 < 0.4	10 < 0.4	5.4 < 0.4	17 < 0.4	7.7 < 0.4	8.6	7.6	2.7	7.6 < 0.4	7.9 < 0.4	5.5 < 0.4	9.1	7 < 0.4
Metals	Chromium, Cr Copper, Cu	mg/kg 5 mg/kg 5	:	:	- :	3600 240000	:	5.6 31 8 68	20 46	23 49	26 39	19 37	23 26	17 68	9.7	17 46	7.9 44	24 23	15 21	18 36	21 35	13 19	25 42	31 27	17 22	19 22	17 25	11 15	25 32	21 33	22 39	19 31	5.6 8	18 32	20 31	12 19	18 26	18 25
Metals	Lead, Pb Mercury (inorganic)	mg/kg 5	•			1500		8.9 57	26	28	30	25	26	18	9.4	20	8.9	28	17	21	23	15	34	54	41	25	22	16	41	24	- :	- :		57	37	33	22	18
	Nickel, Ni	mg/kg 5				6000 40000		6.3 27	27	24	21	16	18	19	6.3	20	6.6	11	12	15	22	9.4	20	15	21	13	14	7.1	16	17	- :		-	16	16	8.6	12	9.2
	Acenaphthene	mg/kg 5 mg/kg 0.5	-		-	400000		<0.5 <0.	5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	- 44	- 65	< 0.5	- :		-	110	- 69	140	- 40	- 35
	Acenaphthylene Anthracene	mg/kg 0.5 mg/kg 0.5	<u> </u>	- :	- :	:		<0.5 <0. <0.5 <0. <0.5 <0.	5 < 0.5 5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5		-	-	-	-	-	-	
	Benzo(a)anthracene	mg/kg 0.5						<0.5 <0. <0.5 <0.	5 < 0.5 5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5			< 0.5 < 0.5								
	Benzo(a)pyrene Benzo(a)pyrene TEQ (lower bound)	mg/kg 0.5	-		-	40		<0.5 <0.	5 < 0.5 5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	- :		< 0.5				- :	- :			
	Benzo(a)pyrene TEQ (medium bound) Benzo(a)pyrene TEQ (upper bound)	mg/kg 0.6 mg/kg 1.2	-	:	- :	40 40	<u>:</u>	0.6 0.6 1.2 1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		0.6 1.2	0.6	-:	+ :	0.6		- :	- :	- :	- :	- :	- :	+:
	Benzo(b&j)fluoranthene	mg/kg 0.5						1.2 1.2 <0.5 <0.	5 < 0.5	1.2 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2 < 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2 < 0.5	1.2 < 0.5	1.2 < 0.5	1.2 < 0.5	1.2 < 0.5	< 0.5	1.2 < 0.5			1.2 < 0.5								
PAH	Benzo(ghi)perylene Benzo(k)fluoranthene	mg/kg 0.5 mg/kg 0.5	-	:	 	:	<u> </u>	<0.5 <0. <0.5 <0.	5 < 0.5 5 < 0.5	< 0.5										< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	- :	-	< 0.5 < 0.5	- :	-	-	- :	- :	-	-	
	Chrysene Dibenzo(ah)anthracene	mg/kg 0.5 mg/kg 0.5		:	- :	:		<0.5 <0. <0.5 <0.	5 < 0.5 5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	- :	-	< 0.5 < 0.5	-	-	-	-	-	-	-	$+ \div \neg$
	Fluoranthene	mg/kg 0.5	-					<0.5 <0.1	5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		-	< 0.5	-			1 -	1 :	- :		
	Fluorene Indeno(1,2,3-cd)pyrene	mg/kg 0.5	-					<0.5 <0.1 <0.5 <0.1 <0.5 <0.1	5 < 0.5 5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	- :	- :	< 0.5 < 0.5	-	-	<u> </u>	+ :		-	<u> </u>	
	Naphthalene Phenanthrene	mg/kg 0.5 mg/kg 0.5	11,000	:	-	:		<0.5 <0.	5 < 0.5 5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5		-	< 0.5 < 0.5	-	-	-		-	-		
	Pyrene	mg/kg 0.5						<0.5 <0.	5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	-							
	Total PAH TRH >C10-C16	mg/kg 0.5 mg/kg 50	-	<u> </u>	- :	4000		<0.5 <0. <50 <50		< 0.5 < 50	< 0.5	< 0.5 < 50	< 0.5	< 0.5 < 50	< 0.5	< 0.5	< 0.5	< 0.5 < 50	< 0.5	< 0.5 < 50	< 50	< 0.5 < 50	< 0.5 < 50	< 0.5 < 50	< 0.5	< 0.5 < 50	< 0.5 < 50	< 50	< 50	< 0.5 < 50		-	+ :	< 50	< 50	+ :	+ :	
	TRH >C10-C16 less Naphthalene (F2) TRH >C10-C40 (total)*	mg/kg 50	20000	NL	1000			<50 <50 <100 530	< 50 < 100	< 50	< 50 < 100	< 50 140	< 50	< 50	< 50 < 100	< 50	< 50	< 50	< 50	< 50	< 50 < 100	< 50	< 50 360	< 50	< 50	< 50 110	< 50 < 100	< 50	< 50	< 50 < 100				< 50 < 100	< 50			
	TRH >C16-C34 (F3)	mg/kg 100 mg/kg 100	27000		5000	:	:	<100 320	< 100	< 100	< 100	140	< 100	160	< 100	< 100					< 100	320	170	110	< 100	110	< 100	< 100	< 100	< 100	- :		- :	< 100	< 100	- :	- :	
TRH	TRH >C34-C40 (F4) TRH C10-C14	mg/kg 100 mg/kg 20	38,000		10000	:	-	<100 210 <20 23	< 100 < 20	< 100 < 20	< 100 < 20	< 100 < 20	< 100 < 20	120 < 20		100 < 20	140 < 20 313	< 100 < 20	< 100 < 20	< 100 < 20	< 100 < 20	210 < 20	190 < 20	120 < 20	100 < 20	< 100 23	< 100 < 20	< 100 < 20	< 100 < 20	< 100 < 20	- :	-	+ :	< 100 < 20	< 100 < 20	- :	- :	+ : - !
IRH	TRH C10-C36 (Total) TRH C15-C28							<50 313 <50 100	< 50	< 50 < 50	< 50 < 50	176 66	< 50 < 50	195 55	< 20 74 < 50	91 < 50	313 83	61 < 50	54 < 50	< 50 < 50	< 50 < 50	250 100	202	< 20 < 50 < 50	89 < 50	< 50 < 50	56 < 50	< 50 < 50	< 50	< 50 < 50		-		65 < 50	< 50 < 50			
	TRH C29-C36	mg/kg 50 mg/kg 50	-		- :	:	- :	<50 230	< 50	< 50	< 50	110	< 50	140		91	230	61	54	< 50	< 50	150	150	< 50	89	< 50	56	< 50	< 50	< 50			-	65	< 50			-:-
	TRH C6-C10 TRH C6-C10 loss BTEX (F1)	mg/kg 20 mg/kg 20	26,000	310	- 800	:	· ·	<20 <20 <20 <20	< 20	< 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	- :	-	-	< 20 < 20	< 20 < 20	- :	- :	-:-
	TRH C6-C9	mg/kg 20						<20 <20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		-		< 20	< 20			
	Benzene Ethylbenzene	mg/kg 0.1 mg/kg 0.1	27000	4 NL			- :	<0.1 <0.:	1 <0.1	<0.1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	- :	- :	- :	- :	- :	- :	- :	-:-
BTEX	m'p-xylene o-xylene	mg/kg 0.2 mg/kg 0.1			- :	:	-	<0.2 <0.1 <0.1 <0.1	1 <0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	- :	-	+ :	- :	- :	- :	- :	+ : - !
	Toluene Total Xvienes	mg/kg 0.1	99000	NL M				<0.1 <0.:	1 <0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		-						
	4.4 - DDD	mg/kg 0.3 mg/kg 0.05 mg/kg 0.05	-	, NC	:	i i		<0.05 <0.0	5 < 0.05 15 < 0.05		< 0.05			< 0.05			- 40.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	- 0.3	-0.3		- :		-	- :	-	< 0.05		< 0.05
	4.4 - DDE 4.4 - DDT	mg/kg 0.05 mg/kg 0.05	-		- :	:	- :	<0.05 <0.0	6 < 0.05	+ :	< 0.05	-	- :	< 0.05 < 0.05		+ :	+ :	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	- :	+ :	- :	- :	- :	-	- :	- :	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05
	a - BHC							<0.05 <0.0	6 < 0.05 2 < 0.05		< 0.05 < 0.05	-	-	< 0.05 < 0.05		- :		< 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05		-	-		-	-			< 0.05 < 0.05		< 0.05 < 0.05
	Aldrin + Dieldrin (total)	mg/kg 0.05 mg/kg 0.05 mg/kg 0.05	-			45		<0.05 0.1 <0.05 2.1 <0.05 <0.0	3 < 0.05 3 < 0.05		< 0.05 < 0.05	-		< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	2.13	< 0.05	< 0.05	< 0.05	- :	- :	- :				- :	- :	< 0.05	< 0.05 < 0.05	< 0.05
	b - BHC Chlordanes (total)	ma/ka 0.1		:	- :	530	- :	<0.1 <0.	1 < 0.1	-	< 0.05 < 0.1	-	-	< 0.05 < 0.1	-	-	-	< 0.05	< 0.05 < 0.1 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05 < 0.1	< 0.05 < 0.1	< 0.05	< 0.05 < 0.1	< 0.05	< 0.05 < 0.1	- :	-	-	- :	-	-	-	- :	< 0.05 < 0.1	< 0.05 < 0.1	< 0.05 < 0.1
	d - BHC DDT + DDE + DDD (total)	mg/kg 0.05 mg/kg 0.05	<u> </u>	:	-	3600	- :	<0.05 <0.0 <0.05 <0.0	s < 0.05	- :	< 0.05 < 0.05	- :	- :	< 0.05	- :	- :	- :	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	- :	- :	- :	- :	- :	- :	- :	- :	< 0.05	< 0.05 < 0.05	< 0.05
	Dieldrin Endosulfan 1	mg/kg 0.05 mg/kg 0.05	-			2000		<0.05 2 <0.05 <0.0	< 0.05		< 0.05	-		< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	2	< 0.05	< 0.05	< 0.05	- :	- :	- :				- :	- :	< 0.05	< 0.05	< 0.05
OCP	Endosulfan 1 Endosulfan 2	mg/kg 0.05 mg/kg 0.05	-	:	- :		- :	<0.05 <0.0 <0.05 <0.0 <0.05 <0.0	6 < 0.05 6 < 0.05	-	< 0.05 < 0.05 < 0.05	-	-	< 0.05 < 0.05	-	-	-	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	- :	-	-	- :	-	-	-	- :	< 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05
	Endosulfan sulphate Endrin	mg/kg 0.05 mg/kg 0.05 mg/kg 0.05		:		2000 2000 100	- :	<0.05 <0.0 <0.05 <0.0	s < 0.05 s < 0.05	-			-	< 0.05	+ :	-	-	< 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	- :	-	-	-	-	-	-	-	< 0.05 < 0.05 < 0.05	< 0.05	
	Endrin Aldehyde Endrin Ketone	mg/kg 0.05 mg/kg 0.05 mg/kg 0.05				-		<0.05 <0.05 <0.05 <0.05 <0.0	6 < 0.05		< 0.05 < 0.05		-	< 0.05			-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-		-			ļ .		-	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05
	g-BHC (Lindane)	mg/kg 0.05	-					<0.05 <0.0	s < 0.05	1 :	< 0.05 < 0.05			< 0.05 < 0.05		1 :	-	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05		1 :			- :	- :		1 :	< 0.05	< 0.05 < 0.05	< 0.05
	Heptachlor Heptachlor epoxide	mg/kg 0.05	-			50		<0.05 <0.0 <0.05 <0.0	s < 0.05 s < 0.05	-	< 0.05 < 0.05	<u> </u>	-	< 0.05 < 0.05	-	-	1	< 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	- :	-	-	-	-	-	+ -:	-	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05
	Hexachlorobenzene Methoxychlor	mg/kg 0.05 mg/kg 0.05				80		<0.05 <0.0 <0.05 <0.0	5 < 0.05 15 < 0.05		< 0.05	-	-	< 0.05	-		-	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-		-	-		-	-	-	< 0.05	< 0.05 < 0.05	< 0.05
	Toxaphene Vic EPA IWRG 621 OCP 9total)	mg/kg 0.5	-		-	160		<0.5 <0.1 <0.1 2.1	5 < 0.05	1	< 0.05 < 0.5			< 0.05 < 0.5	-	1	-	< 0.05 < 0.5	< 0.5 < 0.1	< 0.05	< 0.05	< 0.05 < 0.5	< 0.05	< 0.05 < 0.5	< 0.05 < 0.5	< 0.05 < 0.5	< 0.05	- :					-	- :	- :	< 0.05 < 0.5	< 0.5	
	Vic EPA IWRG 621 OCP 9total) Vic EPA IWRG 621 Other OCP (total)	mg/kg 0.1 mg/kg 0.1	-	:	<u> </u>	:	· ·	<0.1 2.1: <0.1 <0:	3 < 0.1	-	< 0.1	- :		< 0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.13 < 0.1	< 0.1	< 0.1	< 0.1	- :	-	- :	- :	-	-	- :	- :	< 0.1	< 0.1	< 0.1
	Aroclor-1016	mg/kg 0.1	-					<0.1 <0.1 <0.1 <0.1	1 < 0.1		< 0.1			< 0.1	-			< 0.1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1	< 0.1 < 0.1	< 0.1											
	Aroclor-1221 Aroclor-1232	mg/kg 0.1 mg/kg 0.1	-	:				<0.1 <0.1	1 < 0.1	1 :	< 0.1 < 0.1			< 0.1	1 :	1 :	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		1 :			- :	- :		1 :	- :		+ :-
PCB	Aroclor-1242 Aroclor-1248	mg/kg 0.1 mg/kg 0.1		:	-	:		<0.1 <0:	1 < 0.1	-	< 0.1	-	-	< 0.1 < 0.1	+ :	-	-	< 0.1	< 0.1	< 0.1		< 0.1 < 0.1	< 0.1		< 0.1	< 0.1 < 0.1	< 0.1	- :	-	+ :	-	-	-	-	-	-	+ :	$+$: \Box
	Aroclor-1254	mo/ko 0.1	•			•		<0.1 <0.:	1 < 0.1		< 0.1 < 0.1		-	< 0.1	-		-	< 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1	< 0.1 < 0.1	< 0.1	< 0.1 < 0.1 < 0.1	< 0.1	< 0.1 < 0.1					-			-			\vdash
	Aroclor-1260 Total PCB*	mg/kg 0.1 mg/kg 0.1 MPN/g 10 MPN/g 10				7		<0.1 <0:	< u.1 1 < 0.1		< 0.1 < 0.1	-:	- :	< 0.1	- :	1	- :	< 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1	- :	- :	- :	- :	- :	- :		- :	- :	- :	
Microbiological	Total coliforms E. Coli	MPN/g 10 MPN/g 10	-	- :	- :		1000 100	8700 870 <10 <10	0 8700 <10		+ :	H :	+ :	+ :	+ :	+ :	+ :	-	+ :	- :	H :		1		- :	-	+ :	-	+ :	+ -	+ :	-	+ :	+ -	+ -	+ :	+ :	$+ \div \exists$
	Thermotolerant coliforms	MPN/g 10	-				1000	<10 <10	<10				_				_	<u> </u>		-					-								-			-	-	
	Ammonia (as N) Nitrate & Nitrite (as N)	mg/kg 5 mg/kg 5						45 45 45 45	< 5 < 5	1 :												-	-	-:-														
Nutrients	Nitrate (as N) Nitrite (as N)	mg/kg 5 mg/kg 5	-	:		:		<5 <5	< 5 < 5	1 :	+ :	H :	_	1 :	+ :	+ :	+ :	<u> </u>	+ :		H:-					-	+ : -		+ :	+ =	+ :	-	_	+ =	_	_	+ -	+
	Phosphate total (as P)	mg/kg 5	-			-		1000 100	0 1000	-				1				<u> </u>					-	- :	-				-									
	Total Kjeldahl Nitrogen (as N) Total Nitrogen (as N)*	mg/kg 10 mg/kg 10						510 510 510 510	510	+ :	+ :	+ :	+ :	-	+ :	+ :	+ :	-	+ :-	-		-	-		-	-	+ :-	- :	+ :-	+ :	+ :	-	+ :	+ :	-	+ :	+ :	+:-
																-										-								-				

I able 4. Soli Analysis		
290-308 Aldington Road and 59-63 Abbotts Road, Kemps	Creek NSW	
Soil Results & Adopted Site Criteria		
13546-ER-2-1		

							_																														
Table 4. Soil Ar	llysis							Sample I	TP84_0.0-0.1	TP86_0.0-0.1 TP	88_0.0-0.1	TP90_0.0-0.1	TP92_0.0-0.1 T	P94_0.0-0.1 TP95	5_0.0-0.1 TP96	_0.0-0.1 TP98_0	0-0.1 TP100_	0.0-0.1 TP102_0.0-	0.1 TP104_0	0.0-0.1 TP106_0.0-	-0.1 TP108_0.0-0	.1 TP110_0.0-0.	TP112_0.0-0.	TP114_0.0-0.	1 TP116_0.0-0.1	TP118_0.0-0.1	TP120_0.0-0	0.1 TP120_0.5-0.6	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.	1 TP126_0.0-0.1	TP128_0.0-0.	1 TP130_0.0-0.1	TP132_0.0-0.1	TP134_0.0-0.1	/P136_0.0-0.1
290-308 Alding	on Road and 59-63 Abbotts Road, Kemp	ps Creek NSW						Reference Date Samole	se S21-No02612	S21-No02613 S2 19/10/2021 1	-No02614 :	\$21-No02615	\$21-No02616 S	21-No02617 S21-8	No02618 S21-8	No02619 S21-No	2620 S21-No	02621 S21-No026	23 S21-No0	02624 S21-No026	625 S21-No0262	6 S21-No02627	\$21-No02628	\$21-No02629	S21-No02630	\$21-No02631	\$21-No026	32 S21-No02646	S21-No02633	S21-No02634	S21-No0263	5 S21-No02636	S21-No0263	7 S21-No02638	S21-No02639	S21-No02640	321-No02641
13546-ER-2-1	dopted Site Criteria							Sample Matr	19/10/2021	19/10/2021 1 Soil	Soil Soil	19/10/2021 Soil	19/10/2021 Soil	Soil 5	10/2021 20/1 Soil 5	Soil Soi	1021 20/10/ Se	il Soil	c1 ZU/10/Z	2021 20/10/202 I Soil	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	Soil	5 20/10/2021	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	20/10/2021 Soil	21/10/2021 Soil	21/10/2021 Soil	21/10/2021 Soil	21/10/2021 Soil	21/10/2021 Soil
13340-ER-2-1			Screening Levels for Direct	Inhalation / Vapour Intrusion	Management Limits for TPH					0011	O O II	0011		000		5011								0011	5011		0011		Oun	000	- COII	0011		0011	0011		
			Contact (mg/kg) - CRC Care	HSLs (mg/kg) - NEPC 2013	Fractions F1 - F4 in soil (mg/Kg) - NEPC 2013	Health Investigation Levels for Soil Contaminants - NEPM 2013	Products (NSW EPA 2000)		1																											1 1	
Group	Analyte	Units PQL	2011	HSI - D Commercial/Industrial 0			Chabillantina Condo A	Data Set Data Se	t								_		_									+								++	
			HSL - D Commercial/Industrial	m to <1 m	Commercial and Industrial (fine)	Commercial/Industrial D	Microbiological Standards	Data Set Data Se Minimum Maximum	n								_																				
-	Arsenic. As	ma/ka 2				3000		4.7 16	8.8	7.3	7.2	9.8	9.3	7.2	10	16 15	6	8 7.3	47	7.4	14	9.8	7.8	6	- 11	9.2		-	9.3	10	14	12	12	9.3	14	12	- 11
	Cadmium, Cd	mg/kg 2 mg/kg 0.4 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 0.1				900		<0.4 <0.4	< 0.4	< 0.4 19	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.4 < 0.	4 < 0	.4 < 0.4	< 0.4	4 < 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
	Chromium, Cr Conner Cu	mg/kg 5 mg/kg 5	-	-	-	3600 240000		12 27 19 47	31	26	14	20 41	34	18	15	39 31	4	2 23	21	17	36	16 26	47	23 38	17	18	12	+ :	15	19	21	20	14 36	21 36	19 25	19	21
Metals	Lead, Pb	mg/kg 5	•		•	1500		13 42 <0.1 <0.1 9.2 28 37 360	20	24	17	23	27	17	22	42 30	21	0 20	15	15	36	16	23	19	18	19	16		13	24	25	27	14	18	20	22	23
	Mercury (inorganic)	mg/kg 0.1	•		-	730	-	<0.1 <0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 <	< 0.1 <	0.1 < 0.	1 < 0	1.1 < 0.1	< 0.1	1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Zinc, Zn	mg/kg 5 mg/kg 5	-	-	-	40000		37 360	46	17 59	44	64	52	41	66	69 66	56	6 50	43	43	92	51	86	70	47	52	360	- :	37	58	63	68	150	57	66	49	56
	Acenaphthene	mg/kg 0.5	-		-	-	-	<0.5 <0.5		-			-	. <	< 0.5						-	-	-	-			< 0.5				< 0.5	-				-	-
	Acenaphthylene	mg/kg 0.5	•		-	-	-	<0.5 <0.5			-		-		< 0.5		-		-	-	-	-	-	-			< 0.5				< 0.5	-					
	Anthracene Benzo(a)anthracene			-			-	<0.5 <0.5 <0.5 <0.5	+ :		-	- :			< 0.5 < 0.5			-	+ :		-	- :	- :		-	- :	< 0.5 < 0.5	- :	- :	- :	< 0.5		-	- :			
	Benzo(a)pyrene	mg/kg 0.5 mg/kg 0.5	-	-	-		-	<0.5 <0.5							< 0.5				-			-			1	-	< 0.5	- :	-	-	< 0.5	-	-				
	Benzo(a)pyrene TEQ (lower bound)	mg/kg 0.5			-	40	-	<0.5 <0.5					-	. <	< 0.5												< 0.5				< 0.5						-
	Benzo(a)pyrene TEQ (medium bound) Benzo(a)pyrene TEQ (upper bound)	mg/kg 0.6 mg/kg 1.2	-		-	40	-	0.6 0.6 1.2 1.2				-	-	-	0.6 1.2		-				-	-					0.6 1.2				0.6		-				-
			•	•	<u> </u>	40	-	1.2 1.2	<u> </u>		-	-	-		1.2			-	-	-		-	-	-	-	-	1.2	-	<u> </u>		1.2	-	-	-			
PAH	Benzo(b&j)fluoranthene Benzo(ghi)perylene	mg/kg 0.5 mg/kg 0.5						<0.5 <0.5 <0.5 <0.5	1 :		-		- : -		< 0.5 < 0.5	: :			+ :		-	+ :	+ :	+ :	— :	-	< 0.5	+ :	<u> </u>	-	< 0.5		- :				-
FAR	Benzo(k)fluoranthene	mg/kg 0.5						<0.5 <0.5		-			-		< 0.5					-							< 0.5				< 0.5	-					
1	Chrysene	mg/kg 0.5	•			•		<0.5 <0.5 <0.5 <0.5			-	-	-		< 0.5	- -		-			-	-	<u> </u>	<u> </u>	<u> </u>	· ·	< 0.5	+ -	<u> </u>	· ·	< 0.5	-	-	-		+	
1	Dibenzo(ah)anthracene Fluoranthene					-		<0.5 <0.5 <0.5 <0.5		H : H	-		-:-	-: :	< 0.5 < 0.5	: + :	_		-	-	+ :	+ :-	+ :	+ :	+ :	+ :-	< 0.5	+ :-	<u> </u>	H :	< 0.5	+ :	-	+ : -		+	-
1	Fluorene	mg/kg 0.5 mg/kg 0.5						<0.5 <0.5		:	-				< 0.5	- 1 -			+ :		1 :	T :			T :	T :	< 0.5	+ :-	- : -	- :	< 0.5	1 :	- :	1 :			-:-
	Indeno(1,2,3-cd)pyrene	mg/kg 0.5						<0.5 <0.5	-	-			-		< 0.5					-							< 0.5				< 0.5	-		-			-
1	Naphthalene Phenanthrene	mg/kg 0.5 mg/kg 0.5	11,000			•		<0.5 <0.5 <0.5 <0.5	· ·		-	-	-	- <	< 0.5	- -		-			-	-	<u> </u>	<u> </u>	<u> </u>	· ·	< 0.5	+ -	<u> </u>	· ·	< 0.5	-	-	-		+	
	Prenanthrene			-			-	<0.5 <0.5			-	- :			< 0.5 < 0.5			-	+ :	- :	-	- :	- :		-	- :	< 0.5 < 0.5	- :	- :	- :	< 0.5		-	- :			
1	Total PAH	mg/kg 0.5				4000		<0.5 <0.5			-	-		-	< 0.5	- -			-			1 :			1 :		< 0.5	-	— :	1	< 0.5		-				-
	TRH >C10-C16	mg/kg 50	-					<50 94							94												< 50				< 50	-					-
	TRH >C10-C16 less Naphthalene (F2)	mg/kg 50	20000	NL	1000	-	-	<50 94			-		-	-	94		-		-	-	-	-	-	-			< 50				< 50	-					
	TRH >C16-C40 (total)* TRH >C16-C34 (F3)	mg/kg 100 mg/kg 100	27000	-	5000	-	-	<100 274 <100 180	+ :		-	- :			274 180			-	+ :	- :	-	- :	- :		-	- :	< 100	- :	- :	- :	< 100		-	- :			
	TRH >C34-C40 (F4)	mg/kg 100	38,000		10000	-		<100 <100			-	-			< 100				-	-	-	-	-	-	-	-	< 100	-			< 100	-	-	-		 	
TRH	TRH C10-C14	mg/kg 20			-	-	-	<20 22					-		22												< 20				< 20						-
	TRH C10-C36 (Total)	mg/kg 50				-	-	<50 302			-		-	- 1	302 170		-		-	-	-	-	-	-			< 50				< 50	-					
	TRH C15-C28 TRH C29-C36	mg/kg 50 mg/kg 50	•	-		-	-	<50 170 <50 110		-		-	-					-	-			-	-	-	-	-	< 50 < 50	-	-	· ·	< 50 < 50	-	-	-			
	TRH C6-C10	mg/kg 50 mg/kg 20	26,000		-	-		<20 <20			-		- :		110 < 20				-	- :	-	-	-	-	-	-	< 20	- :	-	- :	< 20	- :	-	- :		 	
	TRH C6-C10 less BTEX (F1)	mg/kg 20		310	800	-	-	<20 <20					-	- 4	< 20												< 20				< 20						-
	TRH C6-C9	mg/kg 20			-	-	-	<20 <20		-	-		-		< 20					-	-	-	-	-			< 20	-			< 20	-	-				
	Benzene Ethylhenzene	mg/kg 0.1 mg/kg 0.1	430 27000	4 NI		•		<0.1 <0.1 <0.1 <0.1	+ :		-				<0.1 <0.1				- :	-	-	-	-	-	-	- :	<0.1	-	-		<0.1	-	-	- :			
BTEX	Ethylbenzene m/p-xylene	mg/kg 0.1 mg/kg 0.2	27000	· ·	· · ·	-		<0.1 <0.1	1 :		-				<0.2				-		-	+ :	1	1 :		1 :	<0.2	- :	- :	- :	<0.2	-	-	- :			
BIEX	o-xylene	mg/kg 0.1			-	-	-	<0.1 <0.1	-	-		-	-	- 4	<0.1		-			-	-	-	-	-			< 0.1				<0.1	-			-	-	-
	Toluene	mg/kg 0.1 mg/kg 0.3	99000	NL	-		-	40.1 40.1 40.3 40.3			-		-	- <	<0.1 <0.3		-		-	-	-	-	-	-			< 0.1				<0.1	-					
	Total Xylenes	mg/kg 0.3	81000	NL .	-	-	-			< 0.05	< 0.05	× 0.05	× 0.05			0.05	5 40	.05 < 0.05	<00	15 < 0.05	× 0.05	× 0.05	× 0.05	< 0.05	× 0.05	× 0.05		< 0.05	× 0.05	× 0.05		< 0.05	× 0.05	× 0.05	< 0.05	< 0.05	< 0.05
	4.4 - DDE	mg/kg 0.05 mg/kg 0.05				-		<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	4.4 - DDT	mg/kg 0.05 mg/kg 0.05	•			-		<0.05 <0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < < 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05 05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05
	a - BHC	mg/kg 0.05	•	•		-		<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05
	Aldrin + Dieldrin (total)	mg/kg 0.05 mg/kg 0.05	-	-	<u> </u>	45		<0.05 <0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05 05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05	< 0.05					< 0.05 < 0.05			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	b - BHC	mg/kg 0.05					-	<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Chlordanes (total)	mg/kg 0.05 mg/kg 0.1			-	530	-	<0.1 <0.1	< 0.1	< 0.05 < 0.1	< 0.1	< 0.1	< 0.1	< 0.05 < < 0.1 < < 0.05 <	< 0.1 <	0.1 < 0.	1 < 0	1.1 < 0.1	< 0.1	1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05 < 0.1	< 0.1
	DDT + DDE + DDD (total)	mg/kg 0.05	•	-	-	3600	-						< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 <0.	05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05						< 0.05	< 0.05
	Dieldrin	mg/kg 0.05 mg/kg 0.05			-	5.00	-	<0.05 <0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < < 0.05 < < 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05 05 < 0.05 05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05
	Endosulfan 1	mg/kg 0.05 mg/kg 0.05	•		-	2000	-	<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
OCP	Endosulfan 2	mg/kg 0.05	-			2000		<0.05 <0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 I <0.	05 < 0.05 05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1	Endosulfan sulphate Endrin	mg/kg 0.05 mg/kg 0.05				2000		<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < < 0.05 <	0.05 <	0.05 < 0.0	5 < 0. 5 < 0.	.05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05	< 0.05
	Endrin Aldehyde	ma/ka 0.05				· ·		<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	:0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Endrin Ketone	mg/kg 0.05	•					<0.05 <0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < < 0.05 < < 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	15 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1	g-BHC (Lindane) Heptachlor				 			<0.05 <0.05 <0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05 05 < 0.05	< 0.0	05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05
1	Heptachior epoxide	mg/kg 0.05 mg/kg 0.05						<0.05 <0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1	Hexachlorobenzene	mg/kg 0.05 mg/kg 0.05 mg/kg 0.05				80		<0.05 <0.05	< 0.05	< 0.05	< 0.05			< 0.05 <	0.05 <	0.05 < 0.0	5 < 0.	.05 < 0.05	< 0.0	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1	Methoxychlor	mg/kg 0.05	•			:		<0.05 <0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 <		0.05 < 0.0		05 < 0.05		0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1	Toxaphene Vic EPA IWRG 621 OCP 9total)	mg/kg 0.5 mg/kg 0.1				160		<0.5 <0.5		< 0.5 < 0.1	< 0.5	< 0.5	< 0.5	< 0.5 <	< 0.5 < 0.1 <	< 0.5 < 0. < 0.1 < 0.	5 <0	10 < 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.1	< 0.5 < 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1	Vic EPA IWRG 621 Other OCP (total)	mg/kg 0.1 mg/kg 0.1						40.1 <0.1 40.1 <0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	0.1 < 0.	1 <0	1.1 < 0.1	< 0.1	1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Aroclor-1016	mg/kg 0.1						<0.1 <0.1						- <	< 0.1					-							< 0.1	< 0.1			< 0.1	-					-
1	Aroclor-1221	mg/kg 0.1	-					<0.1 <0.1					-		< 0.1	- -	_		-		-		-	<u> </u>	-	-	< 0.1	< 0.1 < 0.1		-	< 0.1	-	-	-		-	
	Arcelor-1232	mg/kg 0.1 mg/kg 0.1						40.1 40.1 40.1 40.1	+ :		-	-:-	- :		< 0.1 < 0.1			-	-		+ :	+ :	 	+ :	1 :	 	< 0.1	< 0.1	- : -	<u> </u>	< 0.1	-	-	-			
PCB	Aroclor-1242 Aroclor-1248	mg/kg 0.1 mg/kg 0.1						40.1 40.1	1 :		-	-			< 0.1				+ :		-	1 :	H :		1	1 -	< 0.1	< 0.1	<u> </u>	1	< 0.1	1		1		 	-
I	Aroclor-1254	mg/kg 0.1						<0.1 <0.1							< 0.1		-										< 0.1	< 0.1			< 0.1	-					-
1	Aroclor-1260	mg/kg 0.1	•					<0.1 <0.1		· -	· T		· T	- <	< 0.1 < 0.1	. -									· ·	· -	< 0.1	< 0.1		· -	< 0.1		-			+	
	Total PCB* Total coliforms	mg/kg 0.1 MPN/g 10				7	1000	Q.1 Q.1	+ -	-	- +		-	- <	< 0.1		_		+			+		-	-	-	< 0.1	< 0.1	<u> </u>	<u> </u>	< 0.1	-	<u> </u>	+ -			
Microbiological	F Coli	MPN/g 10					100		+ :		: +		-	-:-	:	: -		-			-	+ :	+ :	+ :	 	 	-	+ :	- : -	H :		1 :	-	-			
	Thermotolerant coliforms	MPN/g 10					1000	. :		-				- 1	-	- 1 -			:					L													
	Ammonia (as N)	mg/kg 5							-	-	-		-	-	-			-			-	-	-	-	1		-			-	-	-	-	-	-		-
	Nitrate & Nitrite (as N)	mg/kg 5			 			-:	-		- +		-		-							+	<u> </u>	 	-	-	-	-	<u> </u>	-	<u> </u>	-	-	-		+	
Nutrients	Nitrate (as N) Nitrite (as N)	mg/kg 5 mg/kg 5							1 :	-		-		-:-	-	-			_				 	+ :	T :	1 :	-	+ :	<u> </u>	1 -			-	1 1	-		
	Phosphate total (as P)	mg/kg 5							1 :	:	- 1	-:-	-:-						-			1 :	T :	T :	1 :	1 :	<u> </u>	-	— :	:						T : 1	
	Total Kjeldahl Nitrogen (as N)	mg/kg 10 mg/kg 10	-								-		-	-	-						-	-			-					-		-	-	-			-
	Total Nitrogen (as N)*	mg/kg 10						. .			. 1	. 1		-	- 1	- -				-		-								-	-	-	-	-			
	Highlighted concentration exceeds the adopted																																				

ible 4. Soil Analysis	
0-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW	
oil Results & Adopted Site Criteria	
8546-ER-2-1	

									Sample								PP6 0.0-0.1																				
	oad and 59-63 Abbotts Road, Kemp	ps Creek NS	V						Referen Date Sampl	nce S21-No02643	S21-No02597 S	11-No02598 S2	11-No02589 S21-Oc	18493 S21-Oc3	88494 S21-Oc3849	95 S21-Oc3849	6 S21-Oc38497	S21-Oc38498	S21-Oc38499	S21-No02587	S21-No02590 \$	S21-No02591 S	S21-No02592 S	S21-Oc38452 S	S21-Oc38453 S	S21-Oc38454	S21-Oc38455 S	S21-Oc38456	S21-Oc38457 S	S21-Oc38458	S21-Oc38459 S2	21-Oc38500 S2	:1-Oc38501 S21-C	Oc38502 S21-Oc	.38503 S21-No02	.1588 S21-No	Ao0259
s & Adopte !-1	ed Site Criteria								Date Sample Sample Mat		18/10/2021 1 Soil	8/10/2021 1	8/10/2021 13/10/	1021 13/10/2	1021 12/10/2021	13/10/2021	12/10/2021	12/10/2021	12/10/2021	18/10/2021	18/10/2021	18/10/2021	18/10/2021	6/10/2021	6/10/2021	6/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021 1	3/10/2021 12	3/10/2021 13/1	10/2021 13/10/2	2021 18/10/20	.21 19/10/2	0/2021
(-1			Scr	reening Levels for Direct	Inhalation / Vanour Intrusion	Management Limits for TPH			Sample Mac	uix Soii	Soil	Soli	2011 20	501	I SOII	Soil	Soil	Soli	Soil	SOII	Soll	Soil	SOII	5011	SOII	5011	SOII	5011	SOII	SOII	SOII	SOII	5011 5	3011 501	11 5011	50	JOIL
			Con	ntact (mg/kg) - CRC Care	HSLs (mg/kg) - NEPC 2013 (CLAY)	Fractions F1 - F4 in soil (mg/Kg) - NEPC 2013	Health Investigation Levels for Soil Contaminants - NEPM 2013	Use and Disposal of Biosolids Products (NSW EPA 2000)																													
	Analyte	Units	PQL	2011	HSI - D Commercial/Industrial 0			Carbillantina Conda A	Data Set Data Se	iet																						+				+-	_
			HSL -	- D Commercial/Industrial	HSL - D Commercial/Industrial 0 m to <1 m	Commercial and Industrial (fine)	Commercial/Industrial D	Stabilisation Grade A Microbiological Standards	Minimum Maximu	um																											
Arso	enic As	ma/ka	2				3000		<2 39	- 11	27	7	3.7 26	10	- 13		19	49	7	80	16		7.4	43	32	3	3.4	48	12	3.7	63	-2	17	12 7			2.8
Cadn	mium, Cd	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.4				900		<0.4 <0.4	< 0.4	< 0.4	< 0.4	< 0	4 < 0.4	4 < 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.5		ů		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4 <	< 0.4 < 0.	0.4 < 0.4	. <0	< 0.4
	omlum, Cr iper. Cu	mg/kg mg/kg	5	-	-	-	3600		<5 59	21	13	13	7.5 25	21	23	16	23	10	13	19	30 47	17	18	24	19	17 52	14	59	33	18	13	< 5	26 52	21 21	6 19	13	8.7
Lead	d, Pb	mg/kg	5			-	1500		<5 62 <5 160 <0.1 0.2	23	160	30							- 23	- 55	-7:			21	13	15	13	17	25	14	14	< 5	37	24 17	8 36	16	160
Merc	cury (inorganic)	mg/kg	0.1			-	730		<0.1 0.2	< 0.1	0.2	< 0.1									-			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 <	< 0.1 < 0	.1 < 0.1	0.1	0.1
Zinc.	xei, Ni a. Zn	mg/kg mg/kg	5	- :		- :	40000	-	<5 37 <5 250	59	180	7.5			-	- :	-	- :	- :	-:-	- :	- :	-:-	84	48	46	93	37	95	34	21	< 5	110	44 6	4 71	25	250
	naphthene	mg/kg	0.5						<0.5 <0.5		< 0.5	< 0.5		-	-					-	-		-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 <	< 0.5 < 0.	0.5 < 0.5	5 < 0.	0.5ء
Acen	naphthylene	mg/kg mg/kg mg/kg	0.5		•	-	-		<0.5 <0.5 <0.5 <0.5 <0.5 <0.5			< 0.5		-			-				-			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5 <	< 0.5 < 0. < 0.5 < 0.	0.5	5 < 0.	
Antn	hracene izo(a)anthracene	mg/kg mg/kg	0.5		-				-0.5			< 0.5			- :	-		- :	- :					< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5		< 0.5 < < 0.5	< 0.5 < 0.	0.5 < 0.5 0.5 < 0.5		
Benz	zo(a)pyrene	mg/kg	0.5	-					<0.5 0.6		< 0.5	< 0.5		-	-	-	-	-	-			-		< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	0.5 < 0.5		< 0.5
Benz	zo(a)pyrene TEQ (lower bound)					-	40		<0.5 0.7		< 0.5	< 0.5		-							-			< 0.5	< 0.5 < 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				5 < 0.	4 0.5
Benz	zo(a)pyrene TEQ (medium bound) zo(a)pyrene TEQ (upper bound)	mg/kg	0.6			-	40		0.6 1	-	0.6	0.6		-	-	-	-		-	-	-	-	-	0.6	0.6	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6 0.6	.6 0.6	0.6	0.6
Renz	zo(b&j)fluoranthene	mg/kg mg/kg	0.5	-				-	Q.5 Q.5 Q.5 Q.5 Q.5 Q.5 Q.5 Q.5 Q.5 Q.5	+ :	1.2 < 0.5	1.2 < 0.5	-: -:			-	- :	-:	- :	-:-	-:-	- :	-:-	1.2 < 0.5	1.2	< 0.5	1.2 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2 1.2	0.5 < 0.5	1.4	< 0.5
	zo(ghi)perylene	mg/kg	0.5								< 0.5	< 0.5						<u> </u>						< 0.5	< 0.5	1.4	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	1.2 1 < 0.5 < < 0.5 <		0.5 < 0.5		< 0.5
Benz	zo(k)fluoranthene	mg/kg	0.5		-				<0.5 <0.5 <0.5 <0.5			< 0.5		-			-	-	-		. —			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 <	< 0.5 < 0.	0.5 < 0.5	< 0.	
Chrys	ysene enzo(ah)anthracene	mg/kg mg/kg	0.5				- :		<0.5 <0.5 <0.5 <0.5	:-:		< 0.5			-	-	-	-				-		< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5				< 0.5 < 0.	0.5 < 0.5 0.5 < 0.5		0.5
	oranthene	mg/kg	0.5						<0.5 0.6		0.6	< 0.5		:		-	-	-		- :	-:-	- :	- : -					< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5 < < 0.5 <	< 0.5 < 0. < 0.5 < 0.	0.5 < 0.5		< 0.
Fluor	orene	mg/kg mg/kg	0.5						<0.5 <0.5 <0.5 0.7			< 0.5												< 0.5	< 0.5 < 0.5	< 0.5 0.7	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 <	< 0.5 < 0. < 0.5 < 0. < 0.5 < 0.	0.5 < 0.5	5 < 0.	< 0.
Inder	eno(1,2,3-cd)pyrene	mg/kg	0.5						<0.5 0.7		< 0.5	< 0.5	- -			-	-	-			-	-		< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 <	- 0.5 < 0	0.5 < 0.5		
Phen	hthalene nanthrene	mg/kg mg/kg	0.5	11,000					<0.5 <0.5 <0.5 <0.5	+ :-	< 0.5 < 0.5	< 0.5 < 0.5	-: -:	-	- :	+ :	+ :	- :		-:-	-:-		-:-	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5			< 0.5 < 0. < 0.5 < 0.	0.5 < 0.5 0.5 < 0.5		< 0.
Pyrer	ine	mg/kg	0.5						<0.5 0.5 <0.5 2.7		0.5	< 0.5												< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.	J.5 < 0.5	. <0	< 0.
	I PAH	mg/kg	0.5				4000					< 0.5		1 -		-	-		-	-	-	-	-	< 0.5	< 0.5	2.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 <	< 0.5 < 0.	0.5 < 0.5	< 0	- 0
	I >C10-C16 I >C10-C16 less Naphthalene (F2)	mg/kg mg/kg	50	20000	NI	1000			<50 <50 <50 <50	+ :	< 50	< 50		-	+ :	+ :	+ :							< 50	< 50 < 50	< 250	< 50	< 50	< 100 < 100	< 50	< 50	< 50	< 50 <	< 50 < 50	50 < 50	< 5	- 5
TRH	I >C10-C10 (ess Naphthalene (F2)	mg/kg	100	20000	, nc	-			<100 1980		110	530			- :	-	-	- :						430	100	1980	340 170	< 100	< 200	< 100	< 100	< 100	110 <	< 100 < 10	100 < 100	0 11	11
	I >C16-C34 (F3)	mg/kg	100	27000		5000			<100 880 <100 1100		110 110	530		-	-	-			-	-	-	-	-	200	< 100		170	< 100	< 200	< 100	< 100	< 100	110 <	< 100 < 10		0 11	11
	1 >C34-C40 (F4)			38,000		10000			<100 1100			< 100												230	100	1100	170	< 100	< 200	< 100				< 100 < 10			
	f C10-C14 f C10-C36 (Total)	mg/kg mg/kg	20	-	-				<20 25 <50 1160		< 20	25 485 210 250			- :	-		- :	- :					< 20	< 20	< 100 1160	< 20	< 20	< 40	< 20	< 20	< 20	< 20 <	< 20 < 20 < 50 < 5	20 < 20	< 2	85
TRH	I C15-C28	mg/kg	50	-					<50 300 <50 860		73	210		-	-	-	-	-	-			-		79	< 50		215 65	< 50	< 100	< 50	< 50	< 50		< 50 < 5	50 < 50	< F	< 50
TRH	C29-C36	mg/kg mg/kg	50			-			<50 860		58	250									-			180	66	860		53	130	< 50	< 50	< 50	77 *	< 50 < 5	50 < 50		
TRH	H C6-C10 H C6-C10 less BTEX (F1)	mg/kg mg/kg	20	26,000	-	***************************************			<20 <20 <20 <20	-	< 20 < 20	< 20 < 20		-	-	-				-	-	-	-	< 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < < 20 <	< 20 < 20 < 20 < 2	20 < 20 20	<2	
TRH	1 C6-C9	mg/kg	20	-	- 310	-			<20 <20	-	< 20	< 20			- :	-	-	- :						< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20 < 2	20 < 20	 	< 2
	zene	ma/ka	0.1	430	4				<0.1 <0.1		<0.1	<0.1		-	-	-				-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 <	< 0.1 < 0	J.1 < 0.1	< 0	٤0.
Ethyl	ylbenzene	mg/kg mg/kg	0.1	27000	NL	-			<0.1 <0.1 <0.2 <0.2	-	<0.1	<0.1		-	-	-	-		-	-	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 < 0.2	< 0.1			< 0.1 < 0.		< 0	0.1
o-xyle	-xylene rlene	mg/kg	0.1	-		-			<0.1 <0.1		<0.2 <0.1	<0.1	: :	- :		-	1	-						< 0.2	< 0.1	< 0.2		< 0.2		< 0.1	< 0.1	< 0.2	< 0.1 <	< 0.2 < 0. < 0.1 < 0.	0.1 < 0.1	1 <0.	< 0.1
Tolue	sene	mg/kg mg/kg	0.1	99000	NL		-		40.1 40.1 40.1 40.1		<0.1	<0.1		-							-			< 0.1 < 0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 < 0.	0.1 < 0.1		40.
Total	al Xylenes	mg/kg	0.3	81000	NL				40.3 40.3 40.7			<0.3		-	-	-				-	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 <	< 0.3 < 0.	0.3 < 0.3	3 < 0.	0.3
4.4 - 1	- DDE	mg/kg mg/kg mg/kg	0.05	-	-	- :	· :	· ·	<0.05 <0.05	5 < 0.05	< 0.05 < 0.05	< 0.05			-	-	<u> </u>	- :	- :	- :	- :		-:-	- :		- :			- :	- :	-				 :		÷
4.4 - 1	DDT	mg/kg	0.05						<0.05 <0.05	5 < 0.05	< 0.05	< 0.05								-													-	-			Ξ
a - Bi	внс	mg/kg mg/kg	0.05			-			<0.05 <0.05	5 < 0.05	< 0.05	< 0.05		-			-				-					-			-			-	-				
Aldri	rin + Dieldrin (total)	mg/kg	0.05	-	-		45	-	<0.05 <0.05 <0.05 0.13	\$ < 0.05 \$ < 0.05	< 0.05 0.13	< 0.05			- :	-		- :	- :								- :		- : -							-	÷
b - Bi	BHC	mg/kg mg/kg	0.05	-		-			<0.05 <0.05	5 < 0.05	< 0.05	< 0.05			-	-	-	-	-	-	-	-	-	-		-	-	-	-	-						+	÷
Chlo	ordanes (total)	mg/kg mg/kg	0.1			-	530		<0.1 <0.1 <0.05 <0.05	< 0.1	< 0.1	< 0.1		-							-											-		-			-
d - BI	SHC	mg/kg	0.05		•		2000		<0.05 <0.05	5 < 0.05	< 0.05	< 0.05 < 0.05		-	-	-				-	-	-	-	-		-	•	-	-	-	-	-					_
Dield	f + DDE + DDD (total) drin	mg/kg mg/kg mg/kg	0.05	-		- :	3600		<0.05 <0.05 <0.05 0.13	< 0.05		< 0.05			- :	-	-	- :								-					- :	-	\div			-	÷
	osulfan 1	mg/kg	0.05				2000		<0.05 <0.05	5 < 0.05	< 0.05	< 0.05								-													-	-			-
	osulfan 2	mg/kg	0.05				2000		<0.05 <0.05	s < 0.05		< 0.05	- -		-	-						- 1	· T	- 1	- 1	- 1	- 1		- 1		-				-		
Endo	losulfan sulphate Irin	mg/kg mg/kg	0.05				2000 100		<0.05 <0.05 <0.05 <0.05	5 < 0.05	< 0.05 < 0.05	< 0.05			+ :	+ :	+ :	— :		-:-	-		-:-			-:-		- : -			- : -			: :	- + - :	+	÷
Endr	Irin Aldehyde	mg/kg mg/kg	0.05						<0.05 <0.05	5 < 0.05	< 0.05	< 0.05			-	<u> </u>	-	<u> </u>	<u> </u>				-		-		-	-			-		-				Ξ
	Irin Ketone	mg/kg	0.05				•		<0.05 <0.05	5 < 0.05	< 0.05	< 0.05			T -				-	-	-	-	-	-	-	-	-		-	-							Ξ
	HC (Lindane) tachlor	mg/kg mg/kg	0.05				, 50		<0.05 <0.05 <0.05 <0.05	5 < 0.05 5 < 0.05	< 0.05	< 0.05 < 0.05		-		+ :	-	-		-:-	-:-		-:-	-:-		-:-		-:-		-:-	-:-	-	-	\div		+	÷
	tachlor epoxide	mg/kg	0.05				-		<0.05 <0.05	5 < 0.05	< 0.05	< 0.05	- -			1 :	1 :			- : -			- : -	-		-				-			-			+	÷
Hexa	achlorobenzene	mg/kg mg/kg mg/kg	0.05	-			80		<0.05 <0.05	5 < 0.05	< 0.05	< 0.05			-						-	-				-			-		-	-					-
	hoxychlor	mg/kg	0.05	-					<0.05 <0.05 <0.5 <0.5		< 0.05 < 0.5	< 0.05 < 0.5	- -		-	-		· ·			-	-									-					-	_
	aphene EPA IWRG 621 OCP 9total)	mg/kg mg/kg	0.1							< 0.5	0.13	< 0.1		:		-	-	-		- :	-: +	- :	- : -	-	-:-	-:-	-:-	- :	- :	- :	- : -		-			+-i	÷
Vic E	EPA IWRG 621 Other OCP (total)	mg/kg	0.1						<0.1 0.13 <0.1 <0.1		< 0.1	< 0.1																									-
Aroci	clor-1016	mg/kg	0.1						40.1 40.1 40.1 40.1		< 0.1	< 0.1	- -		-	-						- 1	· T	- 1	- 1	- 1	- 1		- 1		-				-	45	÷
	clor-1221 clor-1232	mg/kg mg/kg	0.1						40.1 40.1 40.1 cn.4	+ :-	< 0.1	< 0.1	-: -:	-	- :	+ :	+ :	- :		-:-	-:-		-:-	-:-		-:-	-:-	-:-		-:-	-:-	-	-	-	. + :	+	÷
	clor-1232 clor-1242	mg/kg mg/kg mg/kg	0.1						<0.1 <0.1 <0.1 <0.1	-	< 0.1 < 0.1	< 0.1	- -	-		-	T -	· ·	- 1	-	- 1	-	-		-		-		-		-	-	-			+	-
Aroc	clor-1248	mg/kg	0.1	-					<0.1 <0.1	-	< 0.1	< 0.1			-		-			-	-	-	-			-		-		-	-	-	-				Ξ
	clor-1254	mg/kg	0.1						<0.1 <0.1	+ :-	< 0.1	< 0.1		-		+ :	-	-		-:-	-:-		-:-	-:-		-:-		-:-		-:-	-:-	-	-	\div		+	÷
	clor-1260 al PCB*	mg/kg mg/kg	0.1	-			7		40.1 40.1 40.1 40.1	1	< 0.1 < 0.1	< 0.1				+ :	1 :			- :			-:-			-:-	-:-	- : -		- : -	- : +				-+-	+	÷
Total	al coliforms	MPN/g	10					1000		-		-				-				- 1	- 1		- 1		- 1		- 1										-
E. Co	oli	MPN/g	10					100			1 · T	- [- -							- 7	- 7	- 1	- 1	-	- 1	- 1	- 1	-	- 1								_
Then	rmotolerant coliforms	MPN/g mg/kg	10				-	1000	1 1	+	+ : +	-		+	+ -	+	+	<u> </u>						-			-	-		-		-				+	-
Amm	nonia (as N) ate & Nitrite (as N)	mg/kg mg/kg	5						1 1 1	1 :	1 : 1		-: -:			+ :	1 :			-:-	-:-	-	-:-			-:-	-: +	-:-								+	÷
Nitra	ate (as N)	mg/kg	5									-		-	-	-	-	-	-	-	-	-	-		-		-		-		-		-	-		\bot	-
Minda	ite (as N)	mg/kg	5									-	- -			-	-	-		-		-	-	-	-	-	-	-	-	-	-						_
								-				-		-				-	-	-	-	-	-	-	-	-		-	- 1	-	-	- 1	-			-	_
Phos	sphate total (as P)	mg/kg mg/kg																														-					

Table 4. Soil Analysis 290-308 Aldington Road and 59-63 Abbotts Road, Kemps Creek NSW Soil Results & Adopted Site Criteria

	on Road and 59-63 Appotts Road, Rem Adopted Site Criteria	ipo orcen ito							Date Sar	impled 19/	10/2021 19/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021	7/10/2021 1:	13/10/2021	13/10/2021 13/1	10/2021 13/10/2021	15/10/202	1 15/10/2021 18/	0/2021 18/10/20	21 18/10/2	21 18/10/2021	19/10/2021	19/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021	7/10/2021	7/10/2021	7/10/2021 18/10	2021 18/10/2021
13546-ER-2-1									Sample I	Matrix	Soil Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil Soil	Soil	1 15/10/2021 18/ Soil	Soil Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil Sc	il Soil
				Screening Levels for Direct	Inhalation / Vapour Intrusion	Management Limits for TPH	Health Investigation Levels for Soil																												
				Contact (mg/kg) - CRC Care 2011	HSLs (mg/kg) - NEPC 2013 (CLAY)	Fractions F1 - F4 in soil (mg/Kg) - NEPC 2013	Contaminants - NEPM 2013	Use and Disposal of Biosolids Products (NSW EPA 2000)																											
Group	Analyte	Units	PQL	2011	(CLAY)	NEPC 2013				_		_												_											-
				HSL - D Commercial/Industrial	HSL - D Commercial/Industrial 0	Commercial and Industrial (fine)	Commercial/Industrial D	Stabilisation Grade A	Data Set Data Minimum Maxi	ta Set																	1 1								
				Hot - D Commercial Househal	m to <1 m	Commercial and modernial (inte)	Commercial microstrial D	Microbiological Standards																											
	Arsenic, As	mgikg mgikg mgikg mgikg mgikg	2				3000	-	3.3 3	30	12 9.6	18	4.4	8	7.2	9.5	16	18	16	9.1 13	12	10	18 30	14	15	17	7.1	11	6.9	10	20	3.3	4.8	5.9 8.	a 8.2
	Cadmium, Cd	mg/kg	0.4	-		-	900		<0.4	0.4	< 0.4 < 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.4 < 0.4	< 0.4	< 0.4	0.4 < 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4 < 0	0.4
	Chromium, Cr	mg/kg	5	-	-	-	3600	-	9.8	35	22 17	30	10	21	21	21	27	16	18	16 19	26	22	23 35	22	22	29	14	21	18	18	18	9.8	14	18 10	16
Metals	Lead Ph	mg/kg mg/kg	5			- :	1500		13 2	58	43 25	38	13	22	22	13	41	20	18	18 22	28	26	20 41	26	30	47	16	21	18	15	18	12	16	24 4	A 22
	Mercury (inorganic)	mg/kg	0.1	-			730		<0.1 0	0.5	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1 < 0.1	< 0.1	< 0.1	0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 0.	s < 0.1
	Nickel, Ni	mg/kg mg/kg	5	-	-	-	6000		6.3 3 28 10	30	11 10	24	6.3	15	17	17	16	15	13	16 20	16	19	30 25	16	15	13	11	14	15	11	19	15	15	22 1	8 8.4 50 28
	Zinc, Zn	mg/kg	5		-	-	400000				98 60	110	30	51	52	49	71	51	54	59 71	53	93	79 1000	54	57	110	39	73	68	55	53	1000	380	640 16	J 28
	Acenaphthene	mg/kg	0.5	-	•	•	•		<0.5		< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	(0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	5 < 0.5
	Acenaphthylene Anthracene	mg/kg mg/kg	0.5	-	-			-	<0.5	0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5 0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
	Benzo(a)anthracene	mg/kg	0.5					-			0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
	Benzo(a)pyrene	mg/kg	0.5	-			<u> </u>		<0.5		0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
	Benzo(a)pyrene TEQ (lower bound)	mg/kg	0.5	-			40				< 0.5 < 0.5		- 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5		0.5 < 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	0.5 < 0.5
	Benzo(a)pyrene TEQ (medium bound)	mg/kg	0.6	-		-	40		0.6 0 1.2 1	0.6	0.6 0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6 0.6	0.6	0.6	0.6 0.6	0.6	0.6	0.6	0.6	0.6		0.6		0.6			à 0.6
	Benzo(a)pyrene TEQ (upper bound)	mg/kg mg/kg	1.2	-		-	40		1.2 1	1.2	0.6 0.6 1.2 1.2	0.6	0.6 1.2	1.2	0.6 1.2	0.6 1.2	0.6 1.2	1.2	1.2	1.2 1.2	1.2	1.2	0.6 0.6 1.2 1.2	1.2	1.2	0.6 1.2	0.6 1.2	1.2	0.6 1.2	1.2	1.2	1.2	1.2	1.2 1.	2 1.2
	Benzo(b&j)fluoranthene	mg/kg	0.5						<0.5 <	0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0 < 0.5 < 0	0.5 < 0.5 0.5 < 0.5
PAH	Benzo(ghi)perylene	mg/kg	0.5	-	-	-	-	-	<0.5 <	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			.5 < 0.5
	Benzo(k)fluoranthene	mg/kg	0.5		•	-	•		<0.5 <	0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		0.5 < 0.5	< 0.5		0.5 < 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	0.5 < 0.5
1	Chrysene Dibenzo(ah)anthracene	mg/kg mg/kg	0.5						<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	0.0	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5		0.5 < 0.5 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	0.5 < 0.5			< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	< 0.5 < 0 < 0.5 < 0	0.5 < 0.5 0.5 < 0.5
	Fluoranthene	mo/ka	0.5						<0.5	0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		0.5 < 0.5	< 0.5		0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
1	Fluorene	mg/kg mg/kg	0.5						<0.5	0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5		0.5 < 0.5	< 0.5		0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
	Indeno(1,2,3-cd)pyrene	mg/kg	0.5				-			0.5	< 0.5 < 0.5	< 0.5	< 0.5		< 0.5	< 0.5		< 0.5		0.5 < 0.5			0.5 < 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		< 0.5 < 0	
1	Naphthalene	mg/kg	0.5	11,000		-	-	-	<0.5	0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5		0.5 < 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
1	Phenanthrene	mg/kg mg/kg	0.5			-				0.5	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	1.5 < 0.5
	Pyrene	mg/kg	0.5				-		<0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
<u> </u>	Total PAH TRH >C10.C16	mg/kg	0.5			-	4000	-	<0.5 <			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	0.5 < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 < 0	
		mg/kg	50	20000		4000			<50 <	450	< 50 < 50	< 50			< 50	< 50	< 50	< 50	< 50	< 50 < 50	< 50	< 50	< 50 < 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50			50 < 50
	TRH >C10-C16 less Naphthalene (F2) TRH >C10-C40 (total)*	mg/kg mg/kg mg/kg	100	20000	NL NL	1000			<50 <	510	< 50 < 50 : 100 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 <	< 50 < 50 : 100 < 100	22A	< 50 < 100	< 50 < 50 100 < 100	< 50 < 10	< 50	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	< 50 610	< 100 < 200	< 100 < 5 590 15	50 < 50 50 < 100
	TRH >C16-C34 (F3)	mo/kg	100	27000		5000	<u> </u>		<100 5	590 -	100 < 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	100 < 100	160		100 < 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	430	< 200	590 15	so < 100
	TRH >C34-C40 (F4)	mg/kg	100	38,000		10000			<100 1	180	: 100 < 100	< 100		< 100	< 100	< 100	< 100	< 100		100 < 100	170	< 100	100 < 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	180			00 < 100
TRH	TRH C10-C14	mg/kg mg/kg	20			-			<100 1 <20 <	<20	< 100 < 100 < 20 < 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20 < 20	< 20	< 20	< 20 < 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	< 40 < 2	20 < 20
INI	TRH C10-C36 (Total)	mg/kg	50		-		-		<50 6	033	< 50 < 50		< 50	56	< 50	< 50	< 50	< 50	< 50	61 51	153	< 50	< 50 < 50	< 50	< 50	56	< 50	< 50	< 50	51	< 50	490	160	660 17 270 6	78 < 50 8 < 50
	TRH C15-C28	mg/kg mg/kg	50	-					<50 2	270	< 50 < 50 < 50 < 50	< 50	< 50	< 50	< 50	< 50		< 50		< 50 < 50	55	< 50	< 50 < 50		< 50	< 50	< 50	< 50	< 50	< 50	< 50	210	< 100	270 6	< 50
	TRH C29-C36	mg/kg	50	-		-	-		<50 3	390	< 50 < 50	< 50		56	< 50	< 50	< 50	< 50	< 50	61 51	98	< 50	< 50 < 50	< 50	< 50	56	< 50	< 50	< 50	51	< 50	280			0 < 50
	TRH C6-C10	mg/kg	20	26,000	310	-	-	-	<20 <	<20	< 20 < 20 < 20 < 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20 < 20	< 20	< 20	< 20 < 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20 < 2 < 20 < 2	20 < 20
	TRH C6-C10 less BTEX (F1) TRH C6-C9	mg/kg	20		310	800	· · · · · · · · · · · · · · · · · · ·		<20 <	<20	< 20 < 20 < 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20 < 20	< 20	< 20 < 20	< 20	< 20	< 20 < 20	< 20	< 20	20 <20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20		< 20 < 2	20 < 20
	Benzene	mg/kg	20	420	-	_		-								< 0.1		< 0.1	<0.1	(0.1 < 0.1	< 0.1	< 0.1	0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1			
	Ethylbenzene	mg/kg mg/kg	0.1	430 27000	4 NI		1		40.1	0.1	<0.1 < 0.1 < 0.1 < 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1	< 0.1	0.1 < 0.1 0.1 < 0.1	< 0.1	<0.1	0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 < 0.1	< 0.1	< 0.1	< 0.1 < 0	0.1 < 0.1 0.1 < 0.1
BTEX	m/p-xylene	mg/kg	0.2			- :	:	-	<0.2	0.2	0.2 < 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2		0.2 < 0.2	< 0.2	< 0.2	0.2 < 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2 < 0	
BIEX	o-xylene	mg/kg	0.1		-		-		<0.1	0.1	< 0.2 < 0.2 < 0.1 < 0.1	< 0.2 < 0.1	< 0.2	< 0.2	< 0.2	< 0.1	< 0.2 < 0.1	< 0.1	< 0.2	0.1 < 0.1	< 0.1	< 0.1	0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2 < 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1 < 0	0.1
	Toluene	mg/kg mg/kg mg/kg mg/kg	0.1	99000	NL.				<0.1 <		< 0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		0.1 < 0.1	< 0.1	< 0.1	0.1 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 < 0	1.1 < 0.1
	Total Xylenes	mg/kg	0.3	81000	NL				<0.3			< 0.3			< 0.3	< 0.3	< 0.3	< 0.3		0.3 < 0.3		< 0.3	: 0.3 < 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3 < 0	
	4.4 - DDD			-	-	-	-	-	<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05	-	-			< 0.05	< 0.05 <	0.05 < 0.05	-				-			-				< 0.5	< 0.5	< 0.5 < 0.	.05 < 0.05
	4.4 - DDE	mg/kg mg/kg	0.05	-	-				<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05	-						0.05 < 0.05				-				-	-	-	-	< 0.5		< 0.5 < 0.	
	4.4 - DD1	mg/kg	0.05		-	-	· · · · · · · · · · · · · · · · · · ·	-	40.05	0.05	0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05		-	-		< 0.05		0.05 < 0.05 0.05 < 0.05	-			-	-			-		-	-	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	
	Aldrin	mg/kg mg/kg	0.05			-			<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05		- :			< 0.05			-	- : -			-	-	- :	- :	- :			< 0.5	< 0.5	< 0.5 < 0.	
	Aldrin + Dieldrin (total)	mg/kg	0.05	-			45		<0.05 <0	0.05	0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05	-				< 0.05	< 0.05 < 0.05 <	0.05 < 0.05 0.05 < 0.05				-					-		-	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05 .05 < 0.05
	b - BHC	mg/kg mg/kg	0.05		-	-		-	<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05	-	-	-		< 0.05	< 0.05 <	0.05 < 0.05	-			-				-			-	< 0.5	< 0.5	< 0.5 < 0.	.05 < 0.05
	Chlordanes (total)	ma/ka	0.1		-		530		<0.1 <	0.1	< 0.1 < 0.1 0.05 < 0.05	< 0.1	< 0.1 < 0.05		-			< 0.1 < 0.05	< 0.1 < 0.05 <	0.1 < 0.1 0.05 < 0.05	-			-								< 1	< 1	<1 <0 <0.5 <0).1 < 0.1
	d - BHC	mg/kg	0.05		-	-		-	<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05						< 0.05 <	0.05 < 0.05	-			-								< 0.5	< 0.5	< 0.5 < 0.	.05 < 0.05
	DDT + DDE + DDD (total)	mg/kg	0.05	-	-	-	3600		<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05 < 0.05	-				< 0.05	< 0.05 < 0.05 <	0.05 < 0.05 0.05 < 0.05	-			-				-	-	-	-	< 0.5	< 0.5 < 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05 .05 < 0.05
1	Dieldrin Endosulfan 1	mg/kg mg/kg	0.05				2000		<0.05 <0	20.0	0.05 < 0.05 0.05 < 0.05 0.05 < 0.05 0.05 < 0.05 0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05	+	-	-		< 0.05	< 0.05 <		-			-				-		-		< 0.5	< 0.5	~ U.D < U.	.05 < 0.05
OCP	Endosulfan 2	mo/ka	0.05				2000		<0.05	0.05	0.05 < 0.05	< 0.05	< 0.05	+ : +	-:-	-:-	- : -	< 0.05	< 0.05	0.05 < 0.05		+: $+$: 			- : -	- : -	-:-	-:-	-:-		< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0. < 0.5 < 0.	.05 < 0.05
1	Endosulfan sulphate	mg/kg	0.05				2000		<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05		-	-		< 0.05	< 0.05	0.05 < 0.05			. :	-		i :	-				-	< 0.5	< 0.5	< 0.5 < 0.	.05 < 0.05
1	Endrin	mg/kg	0.05			-	100		<0.05 <0	0.05	0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05					< 0.05	< 0.05 <	0.05 < 0.05							<u> </u>	-			-	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05 .05 < 0.05
1	Endrin Aldehyde	mg/kg mg/kg mg/kg	0.05			-	-		<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05		. 7		-	< 0.05	< 0.05	0.05 < 0.05					-			-	- 1	-	-	< 0.5	< 0.5	< 0.5 < 0.	J5 < 0.05
	Endrin Ketone	mg/kg	0.05		•		-		<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05					< 0.05	< 0.05 <		<u> </u>			-			-					< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05
1	g-BHC (Lindane) Heptachlor	mg/kg	0.05	-		-	<u> </u>		<0.05 <0	0.05	0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05		-	-		< 0.05	< 0.05 < 0.05 <	0.05 < 0.05	-			-	-	-		-		-	-	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05 .05 < 0.05
1		mg/kg mg/kg	0.05				50		<0.05 <0	20.0	0.00 < 0.05	< 0.05	< 0.05	+ : -		- : -		< 0.05	< 0.05 <						- :							< 0.5	< 0.5	< 0.5 < 0.	.05 < 0.05
	Heptachlor epoxide Hexachlorobenzene	mg/kg mg/kg	0.05				80		<0.05 <0	0.05	0.05 < 0.05 0.05 < 0.05	< 0.05	< 0.05		-:-		- :	< 0.05	< 0.05	0.05 < 0.05	T :	 		+ :	- :	- : -	- : -	-	-			< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05
	Methoxychlor	mg/kg mg/kg	0.05	-					<0.05 <0	0.05	0.05 < 0.05	< 0.05	< 0.05	1 : 1	- : -	- :		< 0.05	< 0.05	0.05 < 0.05		1 : 1	. :	-		-				-:-	-:-	< 0.5	< 0.5	< 0.5 < 0. < 0.5 < 0.	.05 < 0.05
1	Toxaphene	mo/ka	0.5			-	160		<0.5 <	0.5	< 0.5 < 0.5 < 0.1 < 0.1	< 0.5	< 0.5 < 0.1	-	-	-		< 0.5		0.5 < 0.5		-		-	-	-		-	-	-	-	< 10	< 10	< 10 < 0	0.5
	Vic EPA IWRG 621 OCP 9total)	mg/kg mg/kg	0.1				-		<0.1	0.1	< 0.1 < 0.1	< 0.5 < 0.1	< 0.1				-	< 0.1	< 0.1	0.1 < 0.1						-					-	< 1	< 1	<1 <0	0.1
L	Vic EPA IWRG 621 Other OCP (total)	mg/kg	0.1			-			<0.1 d	:01	<0.1 <0.1	< 0.1	< 0.1		. 7			< 0.1	< 0.1	0.1 < 0.1						-				-	-	< 1		<1 <0	
1	Aroclor-1016	mg/kg mg/kg	0.1			-	-		<0.1 <	0.1	<0.1 < 0.1 < 0.1 < 0.1	< 0.1	< 0.1		-			< 0.1	< 0.1 4	0.1 < 0.1	-	-		-	-	-	-	-	-		-	< 1	< 1	<1 <0).1 < 0.1
1	Aroclor-1221	mg/kg	0.1			-	•		<0.1	0.1	CU.1 < 0.1	< 0.1	< 0.1		-	-	-	< 0.1		0.1 < 0.1	-			-		<u> </u>		-	-	-		< 1	< 1	<1 <0	1 < 0.1
1	Aroclor-1232	mg/kg mg/kg	0.1						<0.1 <	0.1 0.1	<0.1 < 0.1 < 0.1 < 0.1	< 0.1 < 0.1	< 0.1	+ : -		- : -		< 0.1		0.1 < 0.1 0.1 < 0.1					- :							< 1 2 1	×1	<1 <0	0.1 < 0.1 0.1 < 0.1
PCB	Aroclor-1242 Aroclor-1248	mg/kg mg/kg	0.1						40.1 d	0.1	0.1 <0.1	< 0.1	< 0.1	+ : +	-:-	- : -	- :	< 0.1	< 0.1		+ :	+ : +		+ :	+ :	H :	 	- : -	- : - !	-:-	-:-	<1	< 1	<1 <0	
1	Aroclor-1254	mg/kg	0.1						<0.1	0.1	< 0.1 < 0.1	< 0.1	< 0.1	1 : 1	- :	- :		< 0.1		0.1 < 0.1			. :			-		-			-	<1	<1	<1 <0	
	Aroclor-1260	mg/kg	0.1				-		<0.1	0.1		< 0.1	< 0.1		-	- 1			< 0.1					-	-	-		-	-		-	<1	< 1	<1 <0	
L	Total PCB*	mg/kg	0.1			-	7		<0.1	0.1	< 0.1 < 0.1		< 0.1					< 0.1	< 0.1	0.1 < 0.1	_						<u> </u>	-			-	< 1	< 1	<1 <0	
	Total coliforms	mg/kg MPN/g	10				-	1000	180 4 <10 <	430			430	-		-		-								-	-			-		-	-		
Microbiological	E. Coli	MPN/g	10				-	100	<10 <	<10		<10					-	-	-		_		- -			-		-	-	-	-		-		
L	Thermotolerant coliforms	MPN/g	10				-	1000	<10 <	<10		<10	<10		-	-	-	-			-			_		-		-	-	-	-	-	-	-	
	Ammonia (as N)	mg/kg mg/kg	5				-		<5 18	800		13		+		-		-			<u> </u>			+ -		-		-		-	-	< 250		5.4 -	
	Nitrate & Nitrite (as N) Nitrate (as N)	mg/kg mg/kg	5						<5 18	800		< 5 < 5	< 5 < 5			-		-		-	-		-			-		-				1800 1800		760 -	
Nutrients	Nitrate (as N) Nitrite (as N)	mg/kg mg/kg	5						<5 4	<5		< 5			- : -			-					-							- : +		< 5		< 5 -	
	Phosphate total (as P)	mg/kg	5						650 14	1000	: -		730		- :					-						-						14000		12000 -	
	Phosphate total (as P) Total Kieldahl Nitrogen (as N)	mg/kg	10				-		1700 24	1000	. :	2200	1700	1 : 1	- 1	- 1	1	-	-	. .			. :	-		i :	:				-	24000	12000	23000 -	\pm
	Total Nitrogen (as N)*	mg/kg mg/kg	10			-	-		1700 25	5800		2200		-		-	-	-				-		-	-			-	-	-	-	25800	12750	23760 -	-

Highlighted concentration exceeds the adopted after criters - Screening Levels for Direct Contact (mpkg) - CRC Care 2011
Highlighted concentration exceeds the adopted site criters - Management Limits for TPM Fractions F1 - F4 in soil (mpkg) - NEPC 231
Highlighted concentration exceeds the adopted site criters - Management Limits for TPM Fractions F1 - F4 in soil (mpkg) - NEPC 2
Highlighted concentration exceeds the adopted site criters - Health investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
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Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation Levels for Soil Contaminants - NEPC 2013
Highlighted concentration exceeds the adopted site criters - Mealth investigation - NEPC 2013
Highlighted concentration - NEPC 2013
Highlighted contents - NEPC 2013
Highlighted concentration - NEPC 2013
Highlighted concentration - NEPC 2013
Highlighted concentration - NEPC 2013
High

 No published criteria or sample not an NL Not Limiting

Report No.: 13546-ER-2-2

APPENDIX C - Site Survey Plans