



DETAILED SITE CONTAMINATION INVESTIGATION

**27a Phoenix Crescent
ERSKINE PARK NSW 2759**



DETAILED SITE CONTAMINATION INVESTIGATION

CLIENT: Penrith City Council

SITE: 27a Phoenix Crescent
ERSKINE PARK NSW 2759

REPORT NUMBER: 11538.03.TSCA

DATE OF REPORT: 30 April 2021

CONSULTANT: Chris Chen BSc (App Chem)

GETEX PTY LIMITED

ABN 99 116 287 471

Unit 2, Building B, 64 Talavera Road,
MACQUARIE PARK NSW 2113

Phone: (02) 9889 2488 **Fax:** (02) 9889 2499

Email: help@getex.com.au **Web:** www.getex.com.au



DOCUMENT CONTROL

| Revision Number | Revision Date | Document Number | Author | Author Signature | Reviewer | Reviewer Signature |
|-----------------|---------------|-----------------|---------------------------|------------------|--|--------------------|
| Revision 0 | 30/04/21 | 11538.03.TSCA | Chris Chen BSc (App Chem) | | Justin Thompson-Laing BSc (Hons), CEnvP (SC) SC40071 | |

TABLE OF CONTENTS

| | | |
|-------|---|----|
| 1. | EXECUTIVE SUMMARY | 6 |
| 2. | SCOPE..... | 8 |
| 3. | LIMITATIONS..... | 9 |
| 4. | SITE IDENTIFICATION | 10 |
| 5. | DESCRIPTION OF SITE AND SURROUNDING ENVIRONMENT | 11 |
| 5.1 | Part of Lot 1444 DP 788282..... | 11 |
| 5.2 | Surrounding Area..... | 11 |
| 5.3 | Proposed Development | 11 |
| 6. | TOPOGRAPHY, GEOLOGY, HYDROLOGY AND HYDROGEOLOGY | 11 |
| 6.1 | Topography..... | 11 |
| 6.2 | Geology | 11 |
| 6.3 | Hydrology | 12 |
| 6.4 | Hydrogeology..... | 12 |
| 6.5 | Acid Sulfate Soil..... | 13 |
| 6.6 | Local Sensitive Environments | 13 |
| 7. | SITE HISTORY | 14 |
| 7.1 | Land Titles Search | 14 |
| 7.2 | Aerial Photographs | 15 |
| 7.3 | EPA Records | 16 |
| 7.4 | Council Records | 16 |
| 7.5 | Historical Business Directories..... | 16 |
| 7.6 | Section 10.7 Certificate | 16 |
| 7.7 | SafeWork NSW Records..... | 17 |
| 7.8 | Underground Utilities Search | 17 |
| 7.9 | Assessment of Historical Information Integrity..... | 18 |
| 8. | CONCEPTUAL SITE MODEL | 19 |
| 8.1 | Sources of Potential Contaminants | 19 |
| 8.2 | Potentially Contaminated Media..... | 19 |
| 8.3 | Potential for Migration | 19 |
| 8.4 | Conceptual Site Model Summary..... | 20 |
| 9. | SAMPLING AND ANALYSIS PLAN..... | 22 |
| 9.1 | Data Quality Objectives | 22 |
| 9.1.1 | State the Problem | 22 |
| 9.1.2 | Identify the Decision..... | 22 |
| 9.1.3 | Identify Inputs into the Decision | 22 |
| 9.1.4 | Define the Study Boundaries | 23 |
| 9.1.5 | Develop a Decision Rule..... | 23 |
| 9.1.6 | Specify Limits on Decision Errors..... | 24 |
| 9.1.7 | Optimise the Design for Obtaining Data | 26 |
| 9.2 | Soil Sampling Program | 26 |
| 10. | ASSESSMENT CRITERIA | 29 |
| 10.1 | Regulatory Guidelines..... | 29 |
| 10.2 | Soil Aesthetic Considerations | 29 |
| 10.3 | Soil Analysis Criteria | 30 |
| 11. | QUALITY ASSURANCE / QUALITY CONTROL..... | 31 |
| 11.1 | Standard Operating Procedures..... | 31 |
| 11.2 | QA/QA Data Evaluation | 31 |
| 12. | INSPECTION DETAILS AND RESULTS | 34 |
| 12.1 | Ground Surface Inspection | 34 |
| 12.2 | Sub-Surface Inspection..... | 35 |
| 13. | DISCUSSION | 37 |

| | | |
|---------------|--|------------|
| 13.1 | Soil Aesthetic Discussion | 37 |
| 13.2 | Asbestos Discussion | 37 |
| 13.3 | Soil Analytical Discussion | 37 |
| 13.3.1 | TRH | 37 |
| 13.3.2 | BTEX | 37 |
| 13.3.3 | Metals | 37 |
| 13.3.4 | PAHs | 38 |
| 13.3.5 | Carcinogenic PAHs | 38 |
| 13.3.6 | OCP | 38 |
| 13.3.7 | OPP | 38 |
| 13.3.8 | PCBs | 38 |
| 13.3.9 | Asbestos in Soil | 38 |
| 13.4 | Response to Identified Decisions | 38 |
| 13.4.1 | Risks to Future Onsite and Offsite Receptors from Soil Contamination | 38 |
| 13.4.2 | Aesthetic Issues from Fill Material | 39 |
| 13.5 | Updated Conceptual Site Model | 39 |
| 14. | CONCLUSIONS AND RECOMMENDATIONS | 41 |
| APPENDIX I | SITE MAP | |
| APPENDIX II | PLANNING CERTIFICATE (SECTION 10.7 PARTS 2 AND 5) | |
| APPENDIX III | LOTSEARCH ENVIRO REPORT | |
| APPENDIX IV | COUNCIL RECORDS | |
| APPENDIX V | DP PLAN | |
| APPENDIX VI | HAZARDOUS CHEMICALS SEARCH | |
| APPENDIX VII | BELOW GROUND UTILITIES SEARCH | |
| APPENDIX VIII | ANALYSIS RESULTS | |
| APPENDIX IX | LABORATORY ANALYSIS REPORTS | |
| APPENDIX X | QA/QC | |
| Figure 1. | Site Locality Map | 10 |
| Figure 2. | Site Map | APPENDIX I |
| Table 4-1: | Site Identification Details | 10 |
| Table 6-1: | Summary of Groundwater Bores | 12 |
| Table 7-1: | Summary of Land Titles Search Lot 1444 DP 788282 | 15 |
| Table 7-2: | Summary of Aerial Photograph Inspection | 16 |
| Table 7-3: | Below Ground Utilities Search | 18 |
| Table 8-1: | Potential Contaminants | 19 |
| Table 8-2: | Conceptual Site Model Summary | 21 |
| Table 9-1: | Decision Rules | 24 |
| Table 9-2: | Summary of DQI | 25 |
| Table 9-3: | Sample Information | 28 |
| Table 11-1: | Data Quality Indicators | 34 |
| Table 12-1: | Test Pit Inspection Details | 36 |
| Table 13-1: | Conceptual Site Model Summary | 40 |

1. EXECUTIVE SUMMARY

Getex Pty Ltd (Getex) was engaged by Penrith City Council to undertake a Detailed Site Contamination Investigation for Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759 (the Site). The purpose of this investigation was to provide a detailed investigation of the current belowground conditions of the Site, with respect to potential belowground contamination, for use as a residential lot.

The scope of the investigation was limited to:

- A review of site history documentation including:
 - Section 10.7 (Parts 2 and 5) certificate;
 - Land title ownership records;
 - Local geology, hydrology and hydrogeology records;
 - Aerial photographs;
 - Below ground utilities search;
 - Local council property files;
 - Hazardous chemicals search;
 - Previous investigations conducted;
 - Historical business directory records; and
 - EPA public registers.
- A site surface walkover inspection;
- Preparation of a Conceptual Site Model (CSM);
- Undertaking a subsurface soil sampling and analysis regime on the Site that included:
 - Test pits to visually inspect the subsurface soil from 7 locations across the Site.
 - The collection of samples from the 7 locations.
 - The following laboratory analysis regime:
 - i. 7 Samples analysed for Metals (As, Cd, Cr, Cu, Hg, Pb, Ni & Zn);
 - ii. 7 Samples analysed for Total Recoverable Hydrocarbons (TRH);
 - iii. 7 Samples analysed for Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX);
 - iv. 7 Samples analysed for Polycyclic Aromatic Hydrocarbons (PAHs);
 - v. 4 Samples analysed for Organochloride Pesticides (OCP);
 - vi. 4 Samples analysed for Organophosphate Pesticides (OPP);
 - vii. 4 Samples analysed for Polychlorinated Biphenyls (PCBs); and
 - viii. 5 Samples analysed for Asbestos.
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC); and
- Prepare a report outlining the findings of the investigation including an assessment of the suitability of the Site for the development with respect to below ground contamination based on the results of the investigation.

Based on the findings from the site historical review and walkover inspection there was the potential for contamination from previous site activities (farmer), imported fill and building materials.

Soil samples were collected from the Site and analysed for TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs and Asbestos.

The soil concentrations of TRH, BTEX, Metals, PAHs, OCPs, OPPs and PCBs were within the adopted criteria.

No Bonded Asbestos (ACM) or Friable Asbestos (FA & AF) was detected within any of the test pits.

As such, contaminant within soils do not represent an unacceptable risk to human health/environment with respect to the future Site as a residential lot.

Within the Scope and Limitations made for the purpose of the investigation, it is the opinion of the consultant that the findings of the investigation do not identify soil contamination above the acceptance criteria which may impact ongoing onsite and offsite receptors. Therefore, the Site soil is considered to be suitable for use as a residential lot.

This Executive Summary should be read in conjunction with all sections of this report.

2. SCOPE

Getex Pty Ltd (Getex) was engaged by Penrith City Council to undertake a Detailed Site Contamination Investigation for Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759 (the Site). The purpose of this investigation was to provide a detailed investigation of the current belowground conditions of the Site, with respect to potential belowground contamination, for use as a residential lot.

The scope of the investigation was limited to:

- A review of site history documentation including:
 - Section 10.7 (Parts 2 and 5) certificate;
 - Land title ownership records;
 - Local geology, hydrology and hydrogeology records;
 - Aerial photographs;
 - Below ground utilities search;
 - Local council property files;
 - Hazardous chemicals search;
 - Previous investigations conducted;
 - Historical business directory records; and
 - EPA public registers.
- A site surface walkover inspection;
- Preparation of a Conceptual Site Model (CSM);
- Undertaking a subsurface soil sampling and analysis regime on the Site that included:
 - Test pits to visually inspect the subsurface soil from 7 locations across the Site.
 - The collection of samples from the 7 locations.
 - The following laboratory analysis regime:
 - i. 7 Samples analysed for Metals (As, Cd, Cr, Cu, Hg, Pb, Ni & Zn);
 - ii. 7 Samples analysed for Total Recoverable Hydrocarbons (TRH);
 - iii. 7 Samples analysed for Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX);
 - iv. 7 Samples analysed for Polycyclic Aromatic Hydrocarbons (PAHs);
 - v. 4 Samples analysed for Organochloride Pesticides (OCP);
 - vi. 4 Samples analysed for Organophosphate Pesticides (OPP);
 - vii. 4 Samples analysed for Polychlorinated Biphenyls (PCBs); and
 - viii. 5 Samples analysed for Asbestos.
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC); and
- Prepare a report outlining the findings of the investigation including an assessment of the suitability of the Site for the development with respect to below ground contamination based on the results of the investigation.

The scope of work was undertaken with reference to the National Environmental Protection (Assessment of Site Contamination) Measure (2013), NSW EPA Consultants Reporting on Contaminated Land: Contaminated Land Guidelines (2020) and State Environmental Planning Policy No.55 – Remediation of Land (1998).

3. LIMITATIONS

The investigation conducted was limited in scope. The area considered in the investigation was limited to Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759 (the Site).

This investigation included the collection of limited soil samples up to the natural soil horizon (maximum depth of 1.15m). The investigation did not include the analysis of ground water samples or the assessment of ground water quality on site. The investigation involved the inspection/sampling of a selected number of locations/materials at the time of inspection which may or may not be representative of conditions between the locations/materials assessed. Furthermore, conditions on site may also change over time subsequent to the Getex assessment.

As such, although all work is performed to a professional and diligent standard, the potential variance between the practical limitations of the scope of work undertaken, the cost of our services, all possible issues of concern, and any loss or damages which may be associated with our work are such that we cannot warrant that all issues of concern/contamination or potential contamination have been identified. We therefore limit any potential liability associated with our work to the cost of our services.

All work conducted and/or reports/information produced by Getex are prepared for a specific objective and within a specified scope of work as agreed between the Client and Getex. As such this document is only for the use of the Client for the intended objective and may not be suitable for any other purpose. No parties other than the client may use this document without first conferring with Getex. Before passing this document onto a third party, the third party must be informed by the client of any relevant information relating to this document. It is the responsibility of any party using this report to fully check to their satisfaction if this report is suitable for their intended use.

All information and/or report(s) prepared by Getex should not be reproduced and/or presented/reviewed except in full.

4. SITE IDENTIFICATION

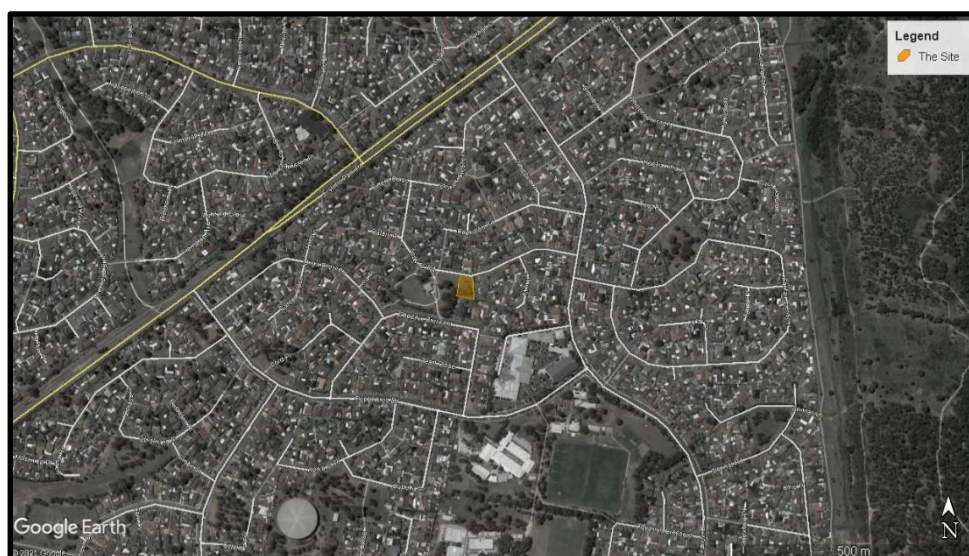
The Site to be investigated is Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759. The Site is located within the Parish of Melville, County of Cumberland. The local government authority is Penrith City Council. Penrith City Council zoned the Site as R2 Low Density Residential within the Penrith Local Environment Plan (2010).

The site identification details are summarised in the following table.

| | |
|---------------------------------------|--|
| Site Address: | Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759 |
| Lot & Deposited Plan: | Part of Lot 1444 DP 788282 |
| Current Land Use: | Public Park/Reserve |
| Proposed Land Use: | Residential |
| Local Government Authority: | Penrith City Council |
| Geographical Location (MGA56): | Easting: 296618 Northing: 6257584 (approximately) |
| Site Investigation Area: | Approximately 1,276 m ² |

Table 4-1: Site Identification Details

Refer to Figure 1 for the general location of the Site.



*Aerial image derived under license from Google Earth and is indicative of on-ground locations only.

Figure 1. Site Locality Map

5. DESCRIPTION OF SITE AND SURROUNDING ENVIRONMENT

A surface walkover inspection of the Site and surrounding area was conducted on the 25th of March 2021. The Site is also identified as part of Lot 1444 DP 788282.

Surrounding the Site was public open space, residential dwellings, Sydney Waters water reservoir and Capella Street.

5.1 Part of Lot 1444 DP 788282

Identified as part of 27a Phoenix Crescent, ERSKINE PARK NSW 2759, the Site is part of the public open space (park/reserve) with grass covering the Site.

No underground storage tanks were identified onsite.

5.2 Surrounding Area

The Site is within a residential area.

To the North of the Site is Pacific Road followed by residential dwellings.

To the East of the Site is residential dwellings.

To the south of the Site is residential dwellings followed by Phoenix Crescent.

To the west of the Site is a public open space with a waterworks playground.

5.3 Proposed Development

Subdivision of the Site to be a residential lot as part of Penrith City Council's Erskine Park Reinvestment Project.

6. TOPOGRAPHY, GEOLOGY, HYDROLOGY AND HYDROGEOLOGY

6.1 Topography

The topography of the Site appears to slope down gently towards the east. Areas surrounding the Site appears to also slope down gently towards the east.

6.2 Geology

The NSW Office of Environment and Heritage eSPADE map shows the Site to be within the Residual Blacktown Soil Landscapes.

This type of landscape is characterised by gently undulating rises on Wianamatta Group shales, local relief to 30m and slopes usually >5%. This landscape contains broad rounded crests and with gently inclined slopes. Cleared Eucalypt woodland and tall open-forest (dry sclerophyll forests). The soils consist of shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils. Red and Brown Podzolic Soils on crests grading to Yellow Podzolic Soils on lower slopes and drainage lines. The limitations to development are localised seasonal waterlogging, localised water erosion hazard, moderately reactive highly plastic subsoil and localised surface movement potential.

The geology in the area is associated with the following Wianamatta Group Units; Ashfield Shale consisting of laminite and dark grey siltstone; Bringelly Shale which consists of shale with occasional calcareous claystone, laminate and infrequent coal, and Minchinbury Sandstone consisting of fine to medium -grained quartz lithic sandstone.

The Department of Finance, Services & Innovation 2020 shows the bedrock underlying the Site to be Triassic Age Ashfield Shale consisting of laminite and dark grey siltstone.

6.3 Hydrology

Within the site, precipitation is expected to infiltrate the surface soils. Infiltration is expected to be at a rate reflective of the soil. During heavy or prolonged rain periods, surface runoff is expected to run towards the east.

6.4 Hydrogeology

Groundwater bore information obtained from the NSW Office of Water are included in Appendix III. There were ten (10) registered bores located within a 2km radius of the Site, a summary of these ten (10) bores are presented in Table 6.1.

| Bore ID | Use | Approximate Distance from Site | Bore Depth | Standing Water Level |
|----------|-----------------|--------------------------------|------------|----------------------|
| GW114265 | Monitoring Bore | 1571 North West | 13.00 | - |
| GW114269 | Monitoring Bore | 1581m North West | 10.00 | - |
| GW114268 | Monitoring Bore | 1582m North West | 12.00 | - |
| GW114266 | Monitoring Bore | 1583m North West | 13.00 | - |
| GW114267 | Monitoring Bore | 1595m North West | 12.00 | - |
| GW101082 | Monitoring Bore | 1706m South | 40.30 | 12.43 |
| GW101085 | Monitoring Bore | 1908m South | 99.30 | - |
| GW101086 | Monitoring Bore | 1936m South | 69.70 | - |
| GW110314 | Monitoring Bore | 1970m East | 151.00 | 40.30 |
| GW110312 | Monitoring Bore | 1996m East | 100.00 | 39.80 |

Table 6-1: Summary of Groundwater Bores

Therefore, based on the available geological and hydro-geological information it is anticipated that groundwater may be encountered at the soil-rock interface as a result of subsurface water movement during and following wet weather and is expected to flow in an east direction due

to the topography of the Site and surrounding area. The permanent groundwater table is anticipated to occur within the underlying bedrock, within zones of relatively higher permeability or associated with inconsistencies in the bedrock (faults, joints, weathered zones, etc).

6.5 Acid Sulfate Soil

According to Acid Sulfate Soil Planning Maps, the Site is within soil class C. The Atlas of Australian Acid Sulfate Soils categorises the Site as within an area of extremely low probability of occurrence (1-5% chance of occurrence). Furthermore, the Acid Sulfate Soil Risk Maps reveal the Site to be in an area of no known risks of acid sulfate soil materials. Therefore, acid sulfate soils are not expected to occur in this environment.

6.6 Local Sensitive Environments

According to SEED - The Central Resource for Sharing and Enabling Environmental Data in NSW, the Site does not contain environmentally sensitive land.

7. SITE HISTORY

7.1 Land Titles Search

A land titles search was conducted by Advanced Legal Search Pty Limited for 11a Canopus Close, ERSKINE PARK NSW 2759. The search identified Lot 1444 DP 788282. The land titles search for the above-mentioned Lot is summarised in the following table.

| Year | Proprietor |
|----------------|--|
| | (Lot 1444 DP 788282) |
| 1989 – to date | The Council of the City of Penrith |
| | (Lot 1337 DP 785310) |
| 1989 – 1989 | Colony Town Estates Pty. Limited |
| | (Lot 1228 DP 778359) |
| 1989 – 1989 | Colony Town Estates Pty. Limited |
| | (Lot 735 DP 771390) |
| 1988 – 1989 | Colony Town Estates Pty. Limited |
| | (Lot 658 DP 736731) |
| 1986 – 1988 | Colony Town Estates Pty. Limited |
| | (Lot 457 DP 731414) |
| 1986 – 1986 | Colony Town Estates Pty. Limited |
| | (Lot 377 DP 713863) |
| 1985 – 1986 | Colony Town Estates Pty. Limited |
| | (Lot 286 DP 707615) |
| 1984 – 1985 | Colony Town Estates Pty. Limited |
| | (Lot 151 DP 703879) |
| 1984 – 1984 | Colony Town Estates Pty. Limited |
| | (Lot 24 DP 624876 – CTVol 14881 Fol 177) |
| 1982 – 1984 | Colony Town Estates Pty. Limited |
| | (Lot 100 DP 587143 – CTVol 13586 Fol 228) |
| 1978 – 1982 | Colony Town Estates Pty. Limited |
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – Conv Bk 3101 No 617) |
| 1973 – 1978 | Colony Town Estates Pty. Limited |
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – Conv Bk 3052 No 494) |
| 1972 – 1973 | Gullotta Pty Limited |
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – Conv Bk 2896 No 224) |
| 1968 – 1972 | Stocks & Holdings (Subdividers) Pty Limited |
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – Conv Bk 2375 No 100) |
| 1956 – 1968 | Arthur Andrew Wilson, farmer |
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – New Trustee Bk 1784 No 399) |
| 1937 – 1956 | Permanent Trustee Company of New South Wales Limited / trustee Nicholas Julius Gehde, estate |
| 1923 – 1937 | Albert Duncan Oliver, solicitor / executor Elsie Beatrice Emily Peerless, spinster / executrix Nicholas Julius Gehde, estate |

| | |
|-------------|---|
| | (Lot 10 of Erskine Park Estate – Area 214 Acres – Conv Bk 1108 No 988) |
| 1917 – 1923 | Nicholas Julius Gehde, musician |

Table 7-1: Summary of Land Titles Search Lot 1444 DP 788282

7.2 Aerial Photographs

Fourteen historical photographs have been provided for viewing. These photographs were for the years 1949, 1956, 1961, 1965, 1970, 1978, 1982, 1986, 1991, 1994, 2000, 2009, 2015 and 2020. The aerial photographs are presented in **Appendix III**. The inspection of the aerial photographs is summarised in Table 7-2.

| Year | Summary |
|------|--|
| 1949 | The aerial photo is in black and white. Discernible details are clear. The Site is currently part of a large forest land with high density trees. North of the Site appears to be a large vacant land with a dirt track running in an east-west direction. The remaining surrounding areas also appear to be large forest land. |
| 1956 | The aerial photo is in black and white. Discernible details are clearer. The Site appears unchanged. Minor tree growth appear to have occurred within the vacant lot north of the Site. No other obvious changes within the Site or remaining surrounding areas. |
| 1961 | The aerial photo is in black and white. Discernible details are clear. The Site appears unchanged. Minor developments to the dirt track north of the Site appear to have been conducted. Deforestation of trees north of the Site have also occurred. No other obvious changes within the Site or remaining surrounding areas. |
| 1965 | The aerial photo is in black and white. Discernible details are clear. The Site appears unchanged. Development of small sheds have occurred north of the Site. No other obvious changes within the Site or remaining surrounding areas. |
| 1970 | The aerial photo is in black and white. Discernible details of the Site are clear. No obvious changes to the Site and surrounding areas. |
| 1978 | The aerial photo is in black and white. Discernible details of the Site are clear. No obvious changes to the Site and surrounding areas. |
| 1982 | The aerial photo is in colour. Discernible details are clearer. The Site appears unchanged. No obvious changes within the Site or surrounding areas. |
| 1986 | The aerial photo is in colour. Discernible details of the Site are clear. The small sheds north of the Site are no longer present. Paved road development has occurred further north of the Site. No obvious changes within the Site or remaining surrounding areas. |
| 1991 | The aerial photo is in colour. Discernible details of the Site are less clear. The Site and surrounding areas have been deforested and residential development has been conducted surrounding the Site. Pacific Road is now present north of the Site, Phoenix Crescent is now present south of the Site. Other adjoining paved roads are also present (Minto Place, Cockatoo Road, Pearl Close & Dilga Crescent). The Site is now part of a large vacant lot. |
| 1994 | The aerial photo is in colour. Discernible details of the Site are clear. Minor developments have occurred within residential properties and surrounding roads surrounding the Site. A large shopping centre has now been developed further south-east of the Site. The Site appears unchanged. |

| Year | Summary |
|------|---|
| 2000 | The aerial photo is in colour. Discernible details of the Site are clear. Further minor developments have occurred within residential properties and surrounding roads surrounding the Site. The Site appears unchanged. |
| 2009 | The aerial photo is in colour. Discernible details of the Site are clear. No obvious changes to the Site and surrounding areas. |
| 2015 | The aerial photo is in colour. Discernible details of the Site are clear. A playground west of the Site is now present. No obvious changes to the Site and surrounding areas. |
| 2020 | The aerial photo is in colour. Discernible details of the Site are clear. Further development of the playground into a waterpark west of the Site has been conducted. No obvious changes to the Site and surrounding areas. |

Table 7-2: Summary of Aerial Photograph Inspection

7.3 EPA Records

A search of the EPA public register under the Protection of the Environment Operations Act 1997 was undertaken. The search results are presented in **Appendix III**. The search identified that, for the Site there were:

- No prevention, clean-up or prohibition notices; and
- No transfer, variation, suspension, surrender or revocation of an environment protection license (EPL).

A search was undertaken of the EPA public contaminated land registers. The search results are presented in **Appendix III**. The search did not identify any matters which apply for the Site or adjoining properties under the Contaminated Land Management Act (CLM Act) 1997.

7.4 Council Records

Penrith City Council was requested to make available for review property documentation held which may provide information pertinent to the ground contamination status of the Site.

No previous property documentation pertinent to the ground contamination status of the Site was provided to Getex from the council.

7.5 Historical Business Directories

A search of the historical business directories was undertaken. Records for the years 1950, 1961, 1970, 1982, 1986 and 1991 were reviewed. The search results are presented in **Appendix III**. The search identified no historical business' on or surrounding the Site.

7.6 Section 10.7 Certificate

A review of the Section 10.7 (2 and 5) certificate issued by Penrith City Council indicates that the land is not declared to be significantly contaminated land or other matters under the Contaminated Land Management Act 1997 (Refer to **Appendix II**).

7.7 SafeWork NSW Records

SafeWork NSW undertook a search for information on licenses to keep hazardous chemicals for the site. The search of the Stored Chemical Information Database and the microfiche records did not locate any records pertaining to the Site (refer to **Appendix VI** SafeWork NSW Hazardous Chemicals Search).

7.8 Underground Utilities Search

An online search for utilities located within the site was conducted and is summarised in Table 7-3, below. Asset owners Endeavour Energy, Jemena, NBN Co, Sydney Water and Telstra provided information on their utilities (refer to **Appendix VII** – Below Ground Utilities Search).

| Asset Owner | Utility Type | Utility Location |
|------------------|---|---|
| Endeavour Energy | Cables | Along Pacific Road |
| | Cable | Running north south, west of the Site |
| | Cables | Along Phoenix Crescent |
| | Duct | Running north-south On Pacific Road, adjacent north-west to the Site |
| | Duct | Running north-south On Pacific Road, north-west to the Site |
| | Duct | Running north-south On Pacific Road, adjacent north-east to the Site |
| | Ducts | Running north-south On Pacific Road, south, south-west and south east of the Site |
| Jemena | 32mm Nylon Medium Pressure gas main | Along Pacific Road Circuit, north-west and north-east of the Site |
| | 50mm Nylon Medium Pressure gas main | Along Pacific Road |
| | 32mm Nylon Medium Pressure gas main | Along Fuller Place |
| NBN Co | Telstra's 35mm PVC Conduit | Along Pacific Road |
| | Telstra's 50mm PVC Conduit | Along Phoenix Crescent |
| Sydney Water | 100mm Ductile Iron Cement Line Water Main | Along Pacific Road |

| Asset Owner | Utility Type | Utility Location |
|-------------|---|---|
| | 150mm Vitrified Clay Sewer Main | Along southern border of residential dwellings north of the Site |
| | 225mm Vitrified Clay Sewer Main | Along southern border of residential dwellings north-east of the Site |
| | 150mm Vitrified Clay Sewer Main | Along northern border of residential dwellings east of the Site |
| | 100mm Ductile Iron Cement Line Water Main | Along Phoenix Crescent |
| Telstra | Conduits | Along Pacific Road |
| | Conduits | Along Phoenix Crescent |

Table 7-3: Below Ground Utilities Search

7.9 Assessment of Historical Information Integrity

The site history assessment has been obtained from a variety of resources including government records from the NSW land titles office, council records, historical aerial photographs, utilities providers, historical business directories, NSW Office of Water and NSW EPA. The veracity of the information from the obtained sources is considered to be high. The site history assessment is generally considered to be of high integrity with respect to the historical use of the Site.

8. CONCEPTUAL SITE MODEL

The following sections detail a conceptual site model which has been developed in relation to the potential origin, impact and migration of contaminants. This model has been developed for the Site based on the findings of the site history review and walkover inspection.

8.1 Sources of Potential Contaminants

The following table lists potential contaminants based on site activities and conditions identified during the site historical review and walkover inspection (refer to Sections 5 to 7). Refer to **Appendix I** for Site Map of the sources.

| Source | Location | Potential Contaminants |
|----------------------------------|-------------|--|
| Past activities on Site - Farmer | Entire Site | Metals, Organochloride Pesticides (OCP), Organophosphorus Pesticides (OPP) |
| Potentially contaminated fill | Entire Site | Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethyl-Benzene Xylenes (BTEX), Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Organochloride Pesticides (OCP), Organophosphorus Pesticides (OPP), Poly-chlorinated Biphenyls (PCBs), Asbestos |

Table 8-1: Potential Contaminants

8.2 Potentially Contaminated Media

Potentially contaminated media present at the site included:

- Topsoil/fill material; and
- Natural Soils and/or Bedrock.

The desk top site history and walkover assessment has identified historical activities on the Site that include a Farmer.. During such activities, spillage and/or leakage of chemicals associated with these activities may have resulted in localised impacts at the ground surface. There is also the potential for contaminated material to have been imported during amendments to Site levels. Based on this, the topsoil and fill material has been identified as a potentially contaminated media.

Based on the potential mobility of contaminants and their associated potential leachability through the soil/fill profile, vertical migration of contaminants from the surface soils into the underlying natural soils/bedrock may have occurred. As a result, the natural soils and underlying bedrock are also considered to be potentially contaminated media.

Groundwater is expected at depth in bedrock and is not considered to be impacted.

8.3 Potential for Migration

Contaminants generally migrate from Site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth);
- The site topography, geology, hydrology and hydrogeology;
- The adjacent properties; and
- Underground utility corridors.

The potential contaminants identified as part of the site history and site inspections are generally in either a solid form (e.g. heavy metals, asbestos, etc) or liquid form (e.g. hydrocarbons, pesticides, etc).

The potential for contaminants to migrate along the underground utility corridors is not likely to occur as there are no underground utilities identified to be traversing through the property.

There is the potential for erosion due to aeolian and water processes however erosion impact appeared minimal during the walkover inspection. Therefore, dust and water erosion potential of the Site is anticipated to be low.

The potential for rainwater infiltration to occur at the Site was relatively high given the permeable surface. If rainfall does penetrate the natural soil, this movement may result in vertical migration of contaminants through the natural soil profile however this is likely to be intermittent and dependent on rainfall.

Some potential contaminants identified may be in liquid form (i.e. hydrocarbons). There is the potential for natural dispersion/diffusion of these contaminants to migrate west due to the Site's topography however, this is anticipated to be low.

The potential sources of contamination are likely to be present above bedrock. Depth to groundwater is expected to be at depth within the bedrock. It is therefore considered that the groundwater is not likely to have a potential to facilitate the migration of contaminants due to the expected depth of groundwater and the limited mobility of groundwater through the bedrock profiles, with higher mobility confined to faults in the bedrock (if present).

8.4 Conceptual Site Model Summary

The following table provides a summary of the conceptual site model detailed in the previous sections and includes potential contaminant origin, impact, migration and receptor's exposure pathways.

The assessment has identified the following contamination issues at the Site:

| Source | Contaminants of Concern | Location | Affected Media | Migration Potential | Current Receptors | Current Exposure Pathway | Future Receptors | Future Exposure Pathway |
|--|---|-------------|--|--|--|--|---|---|
| Past activities on site - Farmer | Metals, OCPs, OPPs | Entire Site | Surface soil; Underlying natural soils and bedrock; | Surface water and dust - low potential; Vertical migration. | Site Occupants; Neighbouring properties; Ecological receptors. | Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil. | Site Occupants; Neighbouring properties; Construction workers; Ecological receptors. | Skin contact with potentially contaminated soil; Ingestion of potentially contaminated soil. |
| Potentially contaminated fill materials. | Metals, TRH, BTEX, PAHs, OCPs, OPPs PCBs and Asbestos | Entire Site | Surface soil; Underlying natural soils and bedrock. | Surface water and dust - low potential; Vertical migration. | Site Occupants; Neighbouring properties; Ecological receptors. | Skin contact with potentially contaminated soil; Vapour inhalation of potentially contaminated soil; Inhalation of potential asbestos; Ingestion of potentially contaminated soil | Site Occupants; Neighbouring properties; Construction workers; Ecological receptors. | Skin contact with potentially contaminated soil; Vapour inhalation of potentially contaminated soil; Inhalation of potential asbestos; Ingestion of potentially contaminated soil. |

Table 8-2: Conceptual Site Model Summary

9. SAMPLING AND ANALYSIS PLAN

9.1 Data Quality Objectives

The methodology employed to design an appropriate sampling and analysis plan for this investigation involves firstly defining the Data Quality Objectives (DQOs) for the sampling (**Sections 9.1.1 to 9.1.6**), then selecting a sampling strategy (**Section 9.1.7**) and corresponding sampling points (**Section 9.2**) to best achieve the DQOs. This methodology is described in sequence in the following sections.

9.1.1 *State the Problem*

The desktop site historical review and walkover inspection has identified the potential for Site contamination conditions to occur at the Site which may impact upon the suitability of the Site for to be used as a residential lot (**Section 8**).

Assessment of contamination conditions is necessary to assess the presence of soil contamination of the Site and draw conclusions regarding if there is contamination that will affect the suitability, or otherwise, for the Site to be a residential lot.

Information on Site contamination conditions presented in earlier sections of this report resulted in the conceptual site contamination model presented in **Section 8** of this report.

9.1.2 *Identify the Decision*

Based on the decision-making process for assessing urban redevelopment sites detailed in *Guidelines for the NSW Site Auditor Scheme (3rd edition)*, Environmental Protection Authority (EPA) (October 2017), and the information within **Section 8**, the following decision was required to be made as part of the Site assessment:

- Is there any contamination within the soil that will pose a risk to future onsite receptors?
- Does the fill material identified from the desktop site history and walkover inspection contain any aesthetic (stains/odours/inert waste) issues?

9.1.3 *Identify Inputs into the Decision*

Inputs identified to provide sufficient data to make the decisions nominated above include:

- The Site description and history as provided in **Section 5, 6 and 7** respectively;
- Potential contamination issues as described in **Section 8**;
- Visual and olfactory indications;
- PID screening data in **Section 12**;
- Soil environmental data as collected by soil sampling and analysis in **Appendix VIII**;
- Soil criteria to be achieved on the Site as based on a proposed future land-use as defined by assessment criteria prepared in **Section 10**; and
- Confirmation that data generated by sample analysis are of a sufficient quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality

assurance / quality control as per the data quality indicators established in **Sections 9.1.6 & 11 and Appendix X**.

9.1.4 Define the Study Boundaries

The study area is defined as part of Lot 2174 DP 776426, known as Lots 1 & 2 of 27a Phoenix Crescent, ERSKINE PARK NSW 2759, as shown in **Figure 1** and has an area of approximately 1,111m².

The vertical extent of the soil investigation was limited up to the natural soil horizon (maximum depth of 1.15m).

Due to the nature of potential contaminants identified and project deadline requirements, seasonality and other temporal variables were not assessed as part of this investigation.

The temporal boundaries of this investigation are limited to the period of field investigation during March 2021 and reported during April 2021.

9.1.5 Develop a Decision Rule

Soil analytical data was assessed against NSW Environmental Protection Authority (EPA) endorsed criteria including:

- *National Environment Protection (Assessment of Site Contamination) Measure*, National Environment Protection Council, 2013.

The decision rules adopted to answer the decisions identified in **Section 9.1.2** are summarised in the following table.

| Decision Required to be Made | Decision Rule |
|--|--|
| 1. Is there any contamination within the soil that will pose a risk to future onsite receptors? | <p><i>Soil analytical data will be compared against EPA endorsed criteria. Statistical analyses of the data in accordance with relevant guidance documents will be undertaken, if appropriate, to facilitate the decisions.</i></p> <p><i>The following statistical criteria will be adopted with respect to soils:</i> <i>Either: the reported concentrations are all below the site criteria;</i> <i>Or: the average site concentration for each analyte must be below the adopted site criterion; no single analyte concentration exceeds 250% of the adopted site criterion; the standard deviation of the results must be less than 50% of the site criteria; and the 95% upper confidence limit (UCL) of the average concentration for each analyte must be below the adopted site criterion as per the NSW EPA Contaminated Sites - Sampling Design Guidelines, 1995.</i></p> <p><i>If the statistical criteria stated above are satisfied, the decision is No.</i> <i>If the statistical criteria are not satisfied, the decision is Yes.</i></p> |
| 2. Does the fill material identified from the desktop site history and walkover inspection contain any aesthetic (stains/odours/inert waste) issues? | <p><i>If there are any unacceptable odours and/or discolouration and/or inert waste (or other aesthetic indicators) identified the answer to the decision is Yes.</i> <i>Otherwise, the answer to the decision is No</i></p> |

Table 9-1: Decision Rules

9.1.6 Specify Limits on Decision Errors

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NEPC (2013), EPA (2017), appropriate indicators of data quality (DQIs used to assess quality assurance / quality control) and standard Getex procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against predetermined Data Quality Indicators (DQIs) for completeness, comparability, representativeness, precision and accuracy. The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined Data Quality Indicators (DQIs) established for the investigation are discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters) and are shown in Table 9-2.

Precision - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples for chemical COPCs.

Accuracy - measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical

results of laboratory control samples, laboratory spikes and analyses against reference standards. Note only applied to chemical COPC.

Representativeness – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the Site, and by using an adequate number of sample locations to characterise the Site to the required accuracy.

Comparability – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.

Completeness – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.

Sensitivity – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted Site assessment criteria.

| Data Quality Indicator | Frequency | Data Quality Criteria |
|--|--|--|
| Precision Blind duplicates (intra laboratory) analysis Split duplicates (inter laboratory) | 1/20 samples 1/20 samples | RPD <30% inorganics and <50% for organics RPD <30% inorganics and <50% for organics |
| Accuracy Laboratory control samples Surrogate spikes Matrix spikes | 1 per lab batch 1 per lab batch 1 per lab batch | <LOR 70-130% 70-130% |
| Representativeness Sampling appropriate for media and analytes Samples extracted and analysed within holding times Rinsate Trip blank | All samples All samples 1 per sample batch 1 per sample batch | All samples Within holding times <LOR 70-130% |
| Comparability Standard operating procedures for sample collection & handling Standard analytical methods used for all analyses Consistent field conditions, sampling staff and laboratory analysis Limits of reporting appropriate and consistent | All samples All samples All samples All samples | All samples All samples All samples All samples |
| Completeness Soil description and COCs completed and appropriate Appropriate documentation Satisfactory frequency and result for QC samples Data from critical samples is considered valid | All samples All samples All QA/QC samples - | All samples All samples - Critical samples valid |
| Sensitivity Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria | All samples | LOR<= site assessment criteria |

Table 9-2: Summary of DQI

Note: If the RPD between duplicates is greater than the pre-determined data quality criteria, a judgement will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

The DQOs for the assessment of the laboratory analytical data include the following conditions:

- Maximum sample holding times for organics are 7 days. Metals and metalloids holding times are 6 months. Mercury (Hg) holding time is 28 days;
- Sample preservation and handling will be conducted in accordance with industry accepted standards;
- All sample analyses will be conducted by NATA accredited laboratories;
- Laboratory blank analysis to be below practical quantitation limits (PQLs); and
- The relative percentage difference (RPD) of duplicates/soil replicates and percent recoveries of control spikes to be calculated and compared to the following criteria:
 - Less than 30% for field soil replicates; and
 - Less than 40% for internal duplicate samples and less than 44% on duplicates with 10 times the limit of reporting; and
 - 75-125% recovery for internal recovery samples.

9.1.7 Optimise the Design for Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in NSW EPA Contaminated Sites - Sampling Design Guidelines, 1995, including judgemental, random, systematic and stratified sampling patterns.

Therefore, in light of the above, a rough orthogonal grid-base sampling strategy with sampling areas to be distributed across the Site was considered to be the most appropriate for the current investigation. Therefore, test pits were conducted at seven (7) locations and sampled resulting in a staggered sampling pattern.

During excavation, a 10.6eV PID was used to screen each of the seven (7) test pits at 1.0m intervals and if contamination was suspected or observed.

Based upon the objectives of this investigation, the density of the sampling undertaken as part of the investigation of the Site soil is considered appropriate.

9.2 Soil Sampling Program

Chris Chen of Getex attended the Site on the 30th of March 2021.

Test pits were excavated using an excavator at selected locations across the Site at multiple depths within fill and natural material to allow for evaluation of the strata. The seven (7) locations were excavated approximately 1.0m long by 1.0m wide and down to virgin natural material.

The soil profile at the Site consisted of:

Topsoil/Fill

Topsoil/fill consisted of dark brown topsoil to depths ranging 0.05-0.2m, sandy and clayey loams with mottled reddish brown clay to depths ranging 0.2-0.85m

Natural Soils

Across the Site the natural soil horizons were reddish brown clays.

Bedrock

Bedrock was not encountered during the investigation.

Groundwater

No groundwater or saturated soil was encountered from any of the test pits.

No olfactory indications of contamination were noted during the site visits. In addition, no visible signs of contamination such as unnatural discoloration or major hydro-carbon related stains were present on the ground surfaces.

A 10.6eV Photo-Ionisation Detector (PID) was used to screen soils via head space analysis for VOCs at each sampling location. Small samples of soil were collected and placed within zip-loc plastic bags, each bag was then sealed. Samples were then disturbed to release any gas held within the void space between grains. The PID intake was then inserted into the bag via a small gap and the VOC levels were recorded. Results are noted within **Section 12**.

The edges, base and excavated material of each test pit were visually inspected for the presence of possible asbestos containing materials.

Bulk 10L soil samples were assessed on site from each test as per the requirements of Table 5 within the WA DOH Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia, 2009, endorsed by the National Environment Protection (Assessment of Site Contamination) Measure, 2013. Each Bulk 10L sample was collected, spread out on a mat, and any asbestos fragments were collected, weighed and recorded. The fragments were weighed using a Mettler AT261 Scales.

Any fragments collected were placed into a 'zip-loc' bag.

500mL soil samples were also collected from selected test pit locations to be analysed for fibrous asbestos (FA) and asbestos fines (AF) as per Section 11.3.2 within Schedule B2 from the NEPM guidelines.

Soil samples for chemical analysis were collected from each test pit within the fill layer, as that layer had the higher potential for contamination, and placed directly into new 250mL clean glass jars with screw top plastic lids with inert plastic inserts.

The glass jars and 'zip-loc' bags were labelled using a waterproof permanent marker pen with the date, a Getex unique reference number that indicated the sampling location, and a sub sample number. The samples were then delivered to the laboratory.

Between samples the sampling equipment was decontaminated using a 5% Decon 90 solution, rinsed with Milli Q water and dried with Kimberly Clark Epic Wipes.

The chain of custody process involved writing the Getex unique reference number on the sample jar at the time of sampling and on the chain of custody form. The chain of custody form

remained with the samples until they were delivered to the laboratory. Once delivered to the laboratory the officer at sample receipt signed the chain of custody form taking responsibility for the samples. A copy of the chain of custody showing the time of delivery, condition of samples (cold etc) and the unique laboratory number was emailed to Getex by the laboratory. On receipt Getex checked that the laboratory details were correct.

Table 9-3 (below) presents a summary of the locations for seventeen (17) laboratory analysis samples collected within the Site. Please refer to **Appendix I** for the Site Map and sample locations.

| Sample Number | Sample Type | Location Collected | Analysis Performed |
|---------------------|-----------------|---|---|
| 11538/ST4/TP01/S1 | Soil Sample | Sample taken at a depth of 0.40m at location TP01. Refer to Appendix I. | TRH, BTEX, PAHs, Metals, OCP, OPP, PCBs |
| 11538/ST4/TP02/S1 | Soil Sample | Sample taken at a depth of 0.15m at location TP01. Refer to Appendix I. | TRH, BTEX, PAHs, Metals |
| 11538/ST4/TP02/AS01 | Soil Sample | Sample taken at a depth of 0.15m at location TP02. Refer to Appendix I. | Asbestos |
| 11538/ST4/TP03/S1 | Soil Sample | Sample taken at a depth of 0.15m at location TP03. Refer to Appendix I. | TRH, BTEX, PAHs, Metals, OCP, OPP, PCBs |
| 11538/ST4/TP03/AS01 | Soil Sample | Sample taken at a depth of 0.15m at location TP03. Refer to Appendix I. | Asbestos |
| 11538/ST4/TP04/S1 | Soil Sample | Sample taken at a depth of 0.20m at location TP04. Refer to Appendix I. | TRH, BTEX, PAHs, Metals |
| 11538/ST4/TP04/AS01 | Soil Sample | Sample taken at a depth of 0.20m at location TP04. Refer to Appendix I. | Asbestos |
| 11538/ST4/TP05/S1 | Soil Sample | Sample taken at a depth of 0.15m at location TP05. Refer to Appendix I. | TRH, BTEX, PAHs, Metals, OCP, OPP, PCBs |
| 11538/ST4/TP05/AS01 | Soil Sample | Sample taken at a depth of 0.15m at location TP05. Refer to Appendix I. | Asbestos |
| 11538/ST4/TP06/S1 | Soil Sample | Sample taken at a depth of 0.15m at location TP06. Refer to Appendix I. | TRH, BTEX, PAHs, Metals |
| 11538/ST4/TP06/AS01 | Soil Sample | Sample taken at a depth of 0.15m at location TP06. Refer to Appendix I. | Asbestos |
| 11538/ST4/TP07/S1 | Soil Sample | Sample taken at a depth of 0.25m at location TP07. Refer to Appendix I. | TRH, BTEX, PAHs, Metals, OCP, OPP, PCBs |
| 11538/ST1/TP01/S1* | Soil Sample | Sample taken at a depth of 0.20m at location TP01 of site Lot 1 of 11 Ashwick Circuit, SAINT CLAIR NSW 2759 | TRH, BTEX, PAHs, Metals |
| 11538/ST1/TP01/S1a* | Split Replicate | Split Replicate of 11538/ST1/TP01/S1 | TRH, BTEX, PAHs, Metals |
| 11538/ST1/TP01/S1b* | Blind Replicate | Blind Replicate of 11538/ST1/TP01/S1 | TRH, BTEX, PAHs, Metals |
| 11538/ST4/RB01 | Rinsate Blank | - | BTEX |
| 11538/ST4/TB01 | Trip Blank | - | BTEX |

Table 9-3: Sample Information

*Sampling from site Lot 1 of 11 Ashwick Circuit, SAINT CLAIR NSW 2759 (part of the same project) was conducted on the same day as this site. Therefore, sample 11538/ST1/TP01/S1 and its replicates have been used for Quality Assurance / Quality Control purposes.

Primary and replicate soil samples that were to be analysed for chemicals were sampled directly from the ground using a stainless-steel trowel and single use nitrile-gloved hands and placed directly into new 250mL clean glass jars with screw top plastic lids with inert plastic inserts. Samples of soil for analysis of asbestos content were collected and placed within zip-loc bags.

Between samples sampling equipment was decontaminated using a 5% Decon 90 solution, rinsed with Milli Q water and dried with Kimberly Clark Epic Wipes.

The glass jars and zip-loc bags were labelled using a waterproof permanent marker pen with the date, a Getex unique reference number that indicated the sampling location, and a sub sample number. The samples were then stored on ice in an insulated container until they were delivered to the laboratory within acceptable holding times.

The chain of custody process involved writing the Getex unique reference number on the sample jars at the time of sampling and on the chain of custody form. The chain of custody form remained with the samples until they were delivered to the laboratory. Once delivered to the laboratory the officer at sample receipt signed the chain of custody form taking responsibility for the samples. A copy of the chain of custody showing the time of delivery, condition of samples (cold etc) and the unique laboratory number was emailed to Getex by the laboratory. On receipt Getex checked that the laboratory details were correct.

10. ASSESSMENT CRITERIA

10.1 Regulatory Guidelines

The investigation was undertaken in general accordance with the following guidelines, as relevant:

- *Contaminated Sites: Sampling Design Guidelines*, NSW EPA, 1995;
- *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*, NSW EPA, 2020;
- *Contaminated Land Management: Guidelines for NSW Site Auditor Scheme* NSW EPA (2017);
- *Contaminated Sites: Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW EPA, 2015;
- *National Environment Protection (Assessment of Site Contamination) Measure*, National Environment Protection Council, 2013; and
- *Environmental Health Risk Assessment: Guidelines for assessing human health risks from environmental hazards*, Department of Health and Ageing and EnHealth Council, Commonwealth of Australia, June 2002.

10.2 Soil Aesthetic Considerations

The National Environment Protection (Assessment of Site Contamination) Measure, 2013 states, "aesthetic issues generally relate to the presence of low-concern or non-hazardous inert foreign material in soil or fill resulting from human activity". Caution is also recommended

when assessing a site for potentially sensitive land uses (such as residential) when significant quantities of fill or demolition materials are present.

Soil or fill material tested to be within accepted human health and environmental guideline levels may still contain low-concern or non-hazardous inert foreign material. Examples of these foreign materials include bricks, tiles, metal piping, glass, concrete, bitumen and plastics.

The quantity, type and distribution of foreign materials identified within the soil profile will be considered in relation to the future land use. In assessing the sensitivity of future site users to aesthetic issues consideration will be given to the depth of the material in relation to the future site levels following any development, the practicality of management options and the ability of the foreign materials to cause concern.

10.3 Soil Analysis Criteria

Health-based soil Criteria Levels can be applied for a range of different exposure settings, which are based on the nature of the use(s) for which the land is currently used and/or its approved use(s).

Given that the use of the Site is for a residential lot, the assessment criteria are based on following exposure setting within the National Environment Protection (Assessment of Site Contamination) Measure, National Environmental Protection Council, 2013:

- Health investigation level setting A (Standard residential with garden/accessible soil) from Table 1A(1);
- Health screening level setting A and soil classification Sand or Clay (depending on the type of soil) for petroleum hydrocarbon compounds from Table 1A(3); and
- Health screening level setting A for Asbestos from Table 7.

For F3 and F4, health screening levels were used from Table B4 of HSLs for petroleum hydrocarbons in soil and groundwater, part 1: technical development document, Technical report no. 10, CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia (2011).

Ecological Screening/Investigation Levels are to be applied to soil within 2m below the proposed ground level.

Ecological Screening Levels (ESLs) for petroleum hydrocarbon compounds are based on Urban Residential and soil texture Coarse or Fine (dependent on the sample) from Table 1B(6) from the *National Environment Protection (Assessment of Site Contamination) Measure*, National Environment Protection Council, 2013.

Ecological Investigation Levels (EILs) are based on Urban Residential from the *National Environment Protection (Assessment of Site Contamination) Measure*, National Environment Protection Council, 2013. EILs have been derived for arsenic, copper, chromium (III), DDT, naphthalene, nickel, lead and zinc.

The EILs presented for zinc, chromium (III), copper and lead are added contaminant limits (ACLs) based on added concentrations. The EILs is calculated from summing the ACL and the ambient background concentration (ABC) to derive the site-specific soil quality guideline (SQG) taking into account the effect caused by pH and exchangeable cations in soil that can affect concentration toxicity data.

Values presented for arsenic and naphthalene are generic EILs based on total concentrations and aged contaminants.

The EIL for lead has been calculated using the most conservative SQG value based upon the reported pH and exchangeable cation values. All other EIL's have assumed that the majority of any contamination on site is more than 2 years old. Where EIL values required input including CEC, pH and organic content, values from Sample 11538/ST4/TP05/S1 was used from the Site. A summary of the EIL input values is:

- Cation exchange capacity: 8.1 cmolc/kg;
- pH: 4.7;
- organic carbon: 2.2%;
- iron: 6.2%; and
- clay: 20%.

The spreadsheet calculations are presented in **Appendix VIII**.

Acceptance criteria levels are given within **Appendix VIII** alongside the sample analysis results.

11. QUALITY ASSURANCE / QUALITY CONTROL

11.1 Standard Operating Procedures

Field works were conducted by Chris Chen BSc (App Chem) who is an experienced environmental consultant in accordance with Getex internal procedures. This includes but is not limited to; inspections, the methods of sampling, decontamination of sampling equipment, sample preparation and storage, the documentation of site conditions, and the completion of chain of custody documentation.

All inspection and sampling information was documented and where necessary collected utilising properly maintained equipment. Prior to use all equipment was assessed for appropriateness and inspected for defects.

11.2 QA/QA Data Evaluation

Data Quality Indicators (DQI) are used to document and quantify compliance, or otherwise with the requirements of the Data Quality Objectives (DQO). They are used to assess the reliability of the field procedures and analytical results. The DQIs are Completeness, Comparability, Representativeness, Precision, and Accuracy. Evaluation of the DQIs is documented in the following table.

Please Refer to **Appendix X** for QA/QC Results and Assessment.

| DQI | | Consideration | Compliance |
|---------------|------------|--|---|
| Completeness | Field | All critical locations sampled | Sampling was conducted across the Site and within areas of potentially higher likelihood of contamination. |
| | | All samples collected (from location and at depth) | Samples were collected from within the material most likely to be contaminated (fill material). |
| | | Sampling procedures appropriate and complied with | All samples were collected in accordance with relevant guidelines, industry practices, and Australian Standards |
| | | Experienced sampler | Samples were recovered by one (1) suitably qualified and experienced sampler. |
| | | Documentation correct | All required documentation was completed including test pit logs and photographic logs |
| | | Duplicates at least 5% of primary samples | >5% duplicates |
| | Laboratory | Critical samples analysed | 100% of samples requested for analysis were analysed |
| | | Analysis addresses contaminants of concern | 100% of samples analysed for requested contaminant |
| | | Documentation supplied | SRA and COC supplied from laboratories |
| Comparability | Field | Same sampling procedures used on each occasion | Each sample was recovered in accordance with the sampling procedures |
| | | Experienced sampler | Samples were recovered by one (1) suitably qualified and experienced sampler. |
| | | Climatic conditions | No potential for variation based on climatic conditions exists. |
| | | Same types of samples collected | The type of samples collected was consistent |

| DQI | | Consideration | Compliance |
|--------------------|------------|---|--|
| | Laboratory | NATA registered laboratories | EnviroLab Services Pty Ltd, Eurofins mgt and ASET Pty Ltd are NATA registered |
| | | Consistent analysis methods for samples | Analysis methods were equivalent across all samples |
| Representativeness | Field | Appropriate media sampled according to NEPM | All samples were recovered in accordance with NEPM |
| | | All media identified | The soil profile (fill and natural) to a depth of 1.15m was identified and recorded |
| | | Satisfactory results for: trip blank, rinsate samples. | All results within acceptable levels and therefore satisfactory |
| | Laboratory | Critical samples analysed | 100% of samples requested for analysis were analysed |
| | | Analysis addresses contaminants of concern | 100% of samples analysed for requested contaminant |
| | | Within holding times | All samples analysed within acceptable holding times |
| Precision | Field | Sampling procedures appropriate and complied with | All samples were recovered in accordance with the sampling procedures |
| | | Acceptable RPD's for all replicates | All QA/QC data is either within the RPD, the result was less than three times the laboratories limit of reporting or less than 10% of the acceptance criteria. Therefore, acceptable |
| | Laboratory | Acceptable RPD's for all laboratory duplicates | Laboratory RPD's acceptable |
| Accuracy | Field | Sampling procedures appropriate and complied with | All samples were recovered in accordance with the sampling procedures |
| | Laboratory | Satisfactory results for: blank samples, matrix spikes, control samples, and surrogate spike samples. | All results within acceptable levels and therefore satisfactory |

| DQI | | Consideration | Compliance |
|-------------|------------|--|---|
| Sensitivity | Laboratory | Analytical methods appropriate for media | All laboratory methods used are NATA accredited for the sample media type |
| | | Limits of recovery within 70-130% | All results within 70-130% |

Table 11-1: Data Quality Indicators

Based on the results from Table 11-1, it is the opinion of the consultant that the Data Quality Indicators have been met.

12. INSPECTION DETAILS AND RESULTS

12.1 Ground Surface Inspection

No visually identifiable asbestos containing materials were identified on the upper ground surfaces within the Site during the ground surface inspection.

12.2 Sub-Surface Inspection

The inspection details of the seven (7) Test Pits excavated and the corresponding ACM field screening sample results and FA/AF laboratory analysis results are presented in Table 12-1 below.

Please refer to **Appendix I** for the Site Map.

| Test Pit | Test Pit Profile | Location (Refer to Appendix I) | Maximum Depth of Test Pit (m) | Foreign Material Observed | Asbestos Visually Observed | Sample ID(s) (Sample Type) | Sample Depth (m) | ACM Weight (grams) | ACM (10L Sample) Results % w/w [#] | 500mL Laboratory Sample | | Depth of Asbestos Contamination (m) | PID |
|----------|--|--------------------------------|-------------------------------|---|----------------------------|------------------------------|------------------|--------------------|---|----------------------------|-------------|-------------------------------------|---------------------------|
| | | | | | | | | | | FA & AF Results % w/w | Free Fibres | | |
| TP01 | 0.0m - Grass, 0.05m - Dark brown clayey loam, 0.1m - Red clay, 0.2m - Dark brown clayey loam, 0.85m - Reddish brown clay | 11538/ST4/TP01 | 1.15 | None | No | 11538/ST4/TP01/S1, 10L | 0.4m | 0 | 0 No Asbestos Detected * | - | - | N/A | 0.1m – 0.3 1.15m – 0.2 |
| TP02 | 0.0m - Grass, 0.05m - Dark brown clayey topsoils, 0.1m - Brown sandy loam, 0.2m - Dark brown clayey loam, 0.45m - Reddish brown clay | 11538/ST4/TP02 | 0.65 | None | No | 11538/ST4/TP02/S1, 10L, AS01 | 0.15m | 0 | 0 No Asbestos Detected | 0 No Asbestos Detected* | No* | N/A | 0.1m – 0.0 0.65m – 0.1 |
| TP03 | 0.0 - Grass, 0.05m - Dark brown topsoil, 0.1m - Brown loam with minor dark grey crushed rock, 0.25m - Reddish brown clay | 11538/ST4/TP03 | 0.55 | None | No | 11538/ST4/TP03/S1, 10L, AS01 | 0.15m | 0 | 0 No Asbestos Detected | 0 No Asbestos Detected* | No* | N/A | 0.1m – 0.1 0.55m – 0.2 |
| TP04 | 0.0m - Grass, 0.05m - Dark brown clayey topsoil, 0.2m - Brown sandy loam, 0.35m - Mottled clayey loam, 0.6m - Mottled reddish brown clay, 0.85m - Reddish brown clay | 11538/ST4/TP04 | 1.05 | Yes - Minor ceramic tiles & plastic @0.2m | No | 11538/ST4/TP04/S1, 10L, AS01 | 0.2m | 0 | 0 No Asbestos Detected | 0 No Asbestos Detected* | No* | N/A | 0.1m – 0.3 1.05m – 0.0 |

| Test Pit | Test Pit Profile | Location (Refer to Appendix I) | Maximum Depth of Test Pit (m) | Foreign Material Observed | Asbestos Visually Observed | Sample ID(s) (Sample Type) | Sample Depth (m) | ACM Weight (grams) | ACM (10L Sample) Results % w/w [#] | 500mL Laboratory Sample | | Depth of Asbestos Contamination (m) | PID |
|------------------------------|--|-----------------------------------|-------------------------------|--|----------------------------|--|------------------|--------------------|---|----------------------------|-------------|-------------------------------------|---------------------------|
| | | | | | | | | | | FA & AF Results % w/w | Free Fibres | | |
| TP05 | 0.0m - Grass, 0.05m - Dark brown topsoil, 0.1m - Sandy dark brown loam, 0.2m - Brown sandy mottled loam, 0.4m - Reddish brown clay | 11538/ST4/TP05 | 0.55 | None | No | 11538/ST4/TP05/S1, 10L, AS01 | 0.15m | 0 | 0 No Asbestos Detected | 0 No Asbestos Detected* | No* | N/A | 0.1m – 0.2 0.55m – 0.3 |
| TP06 | 0.0m - Grass, 0.05m - Dark brown clayey topsoils, 0.1m - Minor white & yellow sandstone, 0.15m - Dark brown loam, 0.35m - Reddish brown clay | 11538/ST4/TP06 | 0.75 | Yes - Minor glass and compressed timber @ 0.1m | No | 11538/ST4/TP06/S1, S1a, S1b, 10L, AS01 | 0.15m | 0 | 0 No Asbestos Detected | 0 No Asbestos Detected* | No* | N/A | 0.1m – 0.1 0.75m – 0.1 |
| TP07 | 0.0m - Grass, 0.05m - Dark brown topsoil, 0.1m - Dark brown loam, 0.25m - Minor black asphalt, 0.3m - Reddish brown clay | 11538/ST4/TP07 | 0.55 | None | No | 11538/ST4/TP05/S1, 10L | 0.25m | 0 | - | - | - | N/A | 0.1m – 0.1 0.55m – 0.0 |
| Asbestos Assessment Criteria | | | | | | | | | 0.01% | 0.001% [^] | | | |

Table 12-1: Test Pit Inspection Details

^{\$}%w/w asbestos in soil = [% asbestos content x bonded ACM (kg)] / [soil volume (L) x soil density (kg/L)] - assumed that: % asbestos content (within bonded ACM) = 15% and soil density (for sandy soils) = 1.65 kg/L, as established in NEPM 2013.

[^]The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. The screening level is not applicable to free fibres.

[#]Refer to Appendix VIII for Chemical Analysis Results

^{*}Refer to Appendix IX for Laboratory Analysis Report.

13. DISCUSSION

13.1 Soil Aesthetic Discussion

Low occurrences (<5%) of foreign materials were identified within the fill material across the Site. The amount of foreign material is not considered to be a trigger with regards to aesthetic soil considerations.

During excavation of the test pits, it was noted that the test pits were excavated up to depths ranging from 0.55-1.15m due to natural clay observed at depths ranging from 0.25-0.85m

Upon inspection of each test pit, Getex identified minor foreign material at a depth of 0.2m from test pit TP04 and at a depth of 0.15m from test pit TP06. The foreign materials observed include 1 small fragment of ceramic tile and plastic at TP04 and 1 small fragment of glass and 1 small fragment of compressed timber at TP06.

13.2 Asbestos Discussion

No asbestos containing materials were identified on the sub-surface and ground surfaces of the Site.

13.3 Soil Analytical Discussion

The summaries of laboratory results are discussed in the following sections.

13.3.1 TRH

A total of seven (7) soil samples were analysed for TRH fractions. All results for F1 (C6-C10 minus BTEX), F2 (C10-C16 minus Napthalene), F3 (C16-C34) and F4 (C34-C40) were below the adopted Site assessment criteria.

13.3.2 BTEX

A total of seven (7) soil samples were analysed for BTEX. All concentrations were below the adopted Site assessment criteria.

13.3.3 Metals

A total of seven (7) soil samples were analysed for Metals. All concentrations were below the adopted Site assessment criteria.

13.3.4 PAHs

A total of seven (7) soil samples were analysed for PAHs. All concentrations were below the adopted Site assessment criteria.

13.3.5 Carcinogenic PAHs

A total of seven (7) soil samples were analysed for Carcinogenic PAHs (as Benzo(a)pyrene TEQ). All concentrations were below the adopted Site assessment criteria.

13.3.6 OCP

A total of four (4) soil samples were analysed for OCP. All concentrations were below the adopted Site assessment criteria.

13.3.7 OPP

A total of four (4) soil samples were analysed for OPP. All concentrations were below the adopted Site assessment criteria.

13.3.8 PCBs

A total of four (4) soil samples were analysed for PCBs. All concentrations were below the adopted Site assessment criteria.

13.3.9 Asbestos in Soil

A total of five (5) soil samples were analysed for Asbestos. All concentrations were below the adopted Site assessment criteria.

13.4 Response to Identified Decisions

The results are discussed in the following sections in relation to the identified decisions developed as part of the DQO process (**Section 9.1.2**):

- Is there any contamination within the soil that will pose a risk to future onsite receptors?
- Does the fill material identified from the desktop site history and walkover inspection contain any aesthetic (stains/odours/inert waste) issues?

13.4.1 Risks to Future Onsite and Offsite Receptors from Soil Contamination

The collected samples of the soil were analysed for a broad range of identified potential contaminants including TRH, BTEX, Metals, PAHs, OCPs, OPPs PCBs and Asbestos. Concentrations of TRH, BTEX, Metals, PAHs, OCPs, OPPs and PCBs were within the

adopted criteria and PID analysis of soil headspace was within acceptable levels and thus do not present an unacceptable risk to human or environmental health.

No Bonded Asbestos (ACM) or Friable Asbestos (FA & AF) was detected within any of the test pits.

As such, contaminant within soils do not represent an unacceptable risk to human health/environment with respect to Site use.

13.4.2 Aesthetic Issues from Fill Material

The amount of foreign material is not considered to be a trigger with regards to aesthetic soil considerations.

13.5 Updated Conceptual Site Model

Based on the findings from the assessment, the updated Conceptual Site Model (CSM) is provided in Table 13-1.

| Source | Receptors | Contaminants of Concern | Exposure Pathway | Potential for Completeness |
|---|---|--|---|---|
| Contaminated soils from: - Potentially contaminated fill materials; - Past farmer on Site. | Site Occupants; Neighbouring properties; Construction Workers | Metals, TRH, BTEX, PAHs, OCPs, OPPs, PCBs and Asbestos | Inhalation of asbestos fibres; Skin contact with potentially contaminated soil; Inhalation of asbestos fibres; Vapour inhalation; Ingestion of potentially contaminated soil. | Pathway incomplete – No CoPC detected above criteria levels within the Site. |
| | Ecological receptors | Metals, TRH, BTEX, PAHs, OCP, OPPS and PCBs | Plant uptake; Ingestion of contamination soil; Terrestrial ecology. | Pathway incomplete – No CoPC detected above criteria levels within the Site. |

Table 13-1: Conceptual Site Model Summary

14. CONCLUSIONS AND RECOMMENDATIONS

Based on the findings from the site historical review and walkover inspection there was the potential for contamination from previous site activities (farmer), imported fill and building materials.

Soil samples were collected from the Site and analysed for TRH, BTEX, Metals, PAHs, OCPs, OPPs, PCBs and Asbestos.

The soil concentrations of TRH, BTEX, Metals, PAHs, OCPs, OPPs and PCBs were within the adopted criteria.

No Bonded Asbestos (ACM) or Friable Asbestos (FA & AF) was detected within any of the test pits.

As such, contaminant within soils do not represent an unacceptable risk to human health/environment with respect to the future Site as a residential lot.

Within the Scope and Limitations made for the purpose of the investigation, it is the opinion of the consultant that the findings of the investigation do not identify soil contamination above the acceptance criteria which may impact ongoing onsite and offsite receptors. Therefore, the Site soil is considered to be suitable for use as a residential lot.



APPENDIX I

SITE MAP



Figure 2: Site Map
27a Phoenix Crescent, ERSKINE PARK NSW 2759

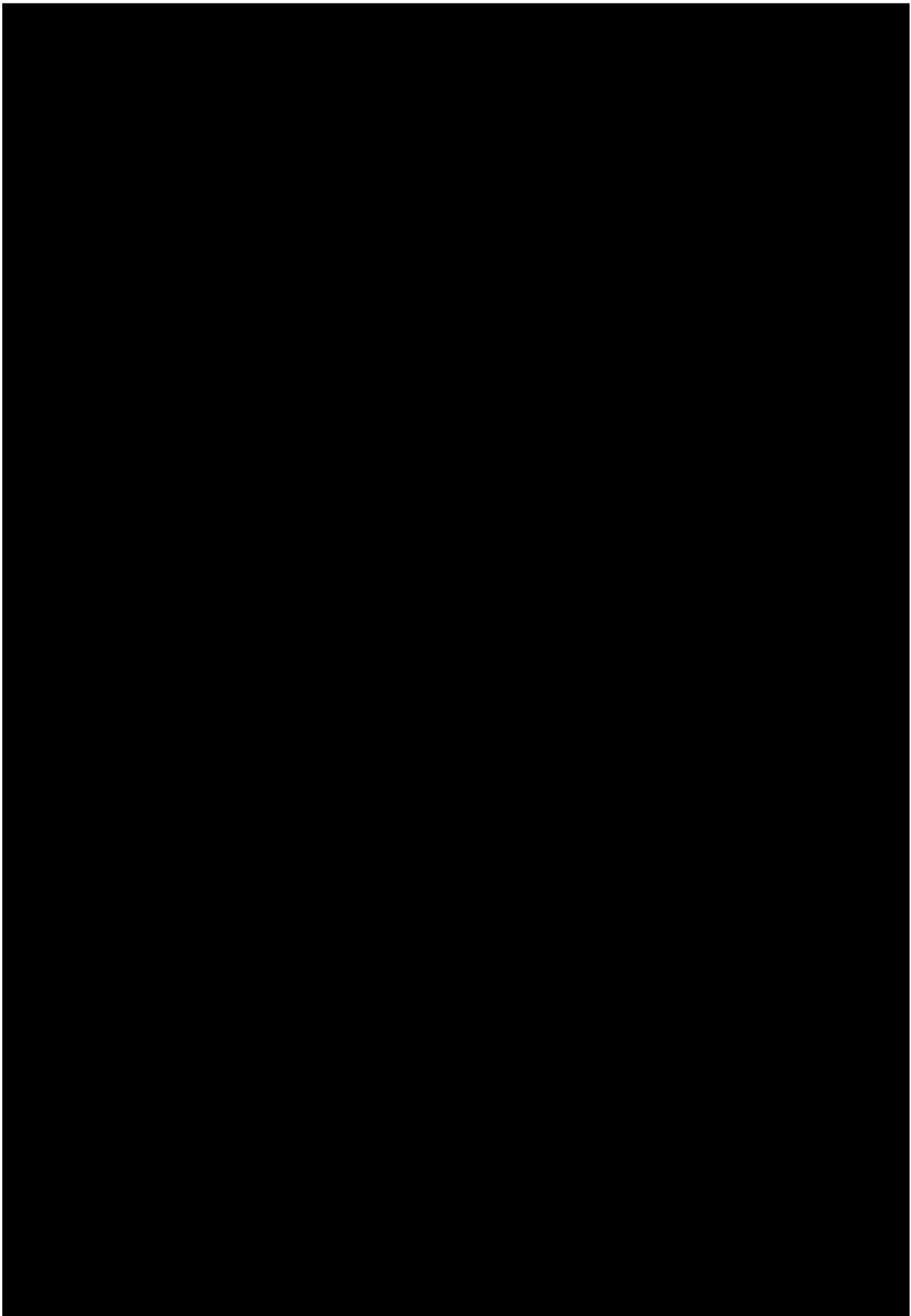
**Aerial image derived from Google Earth*

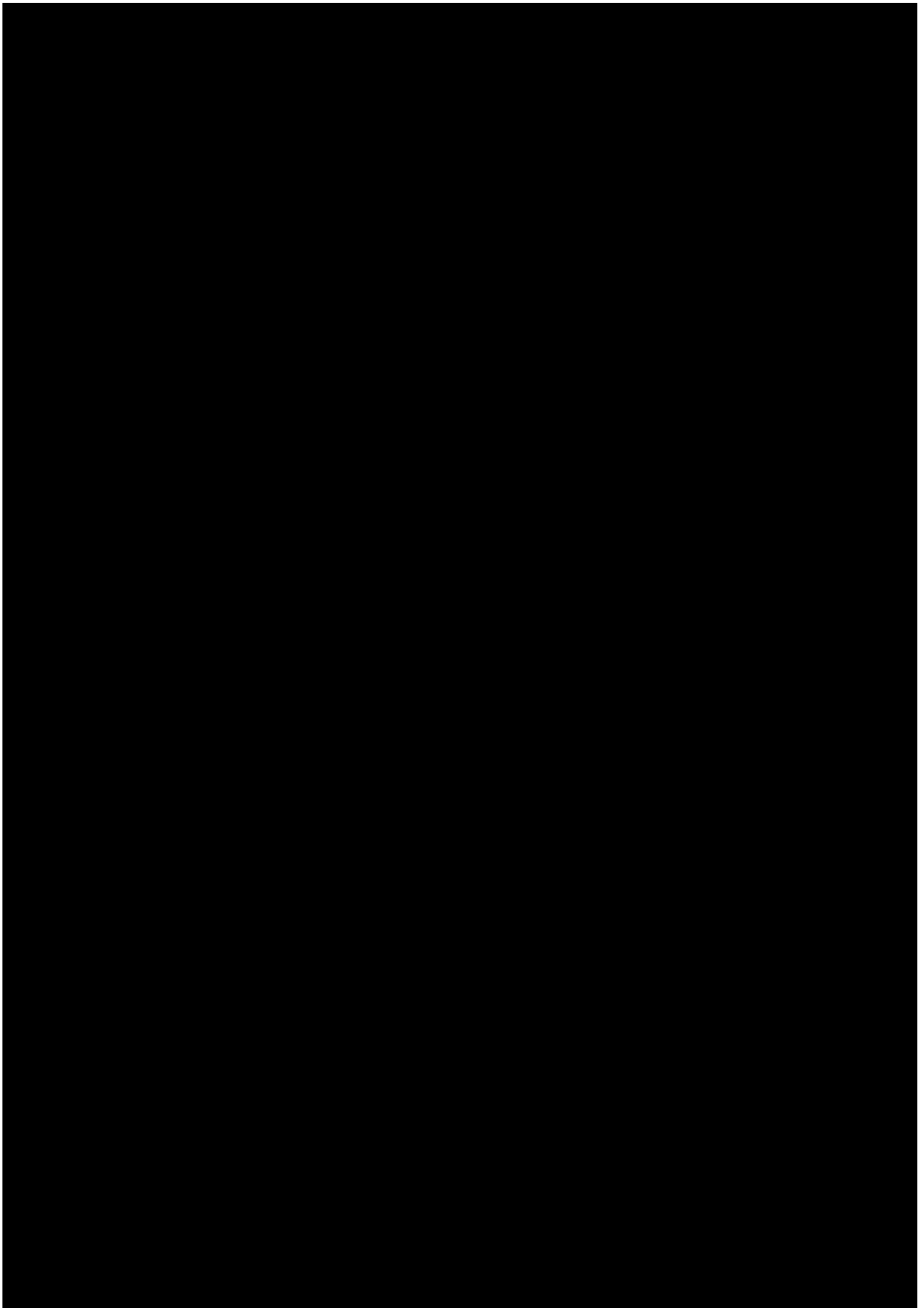


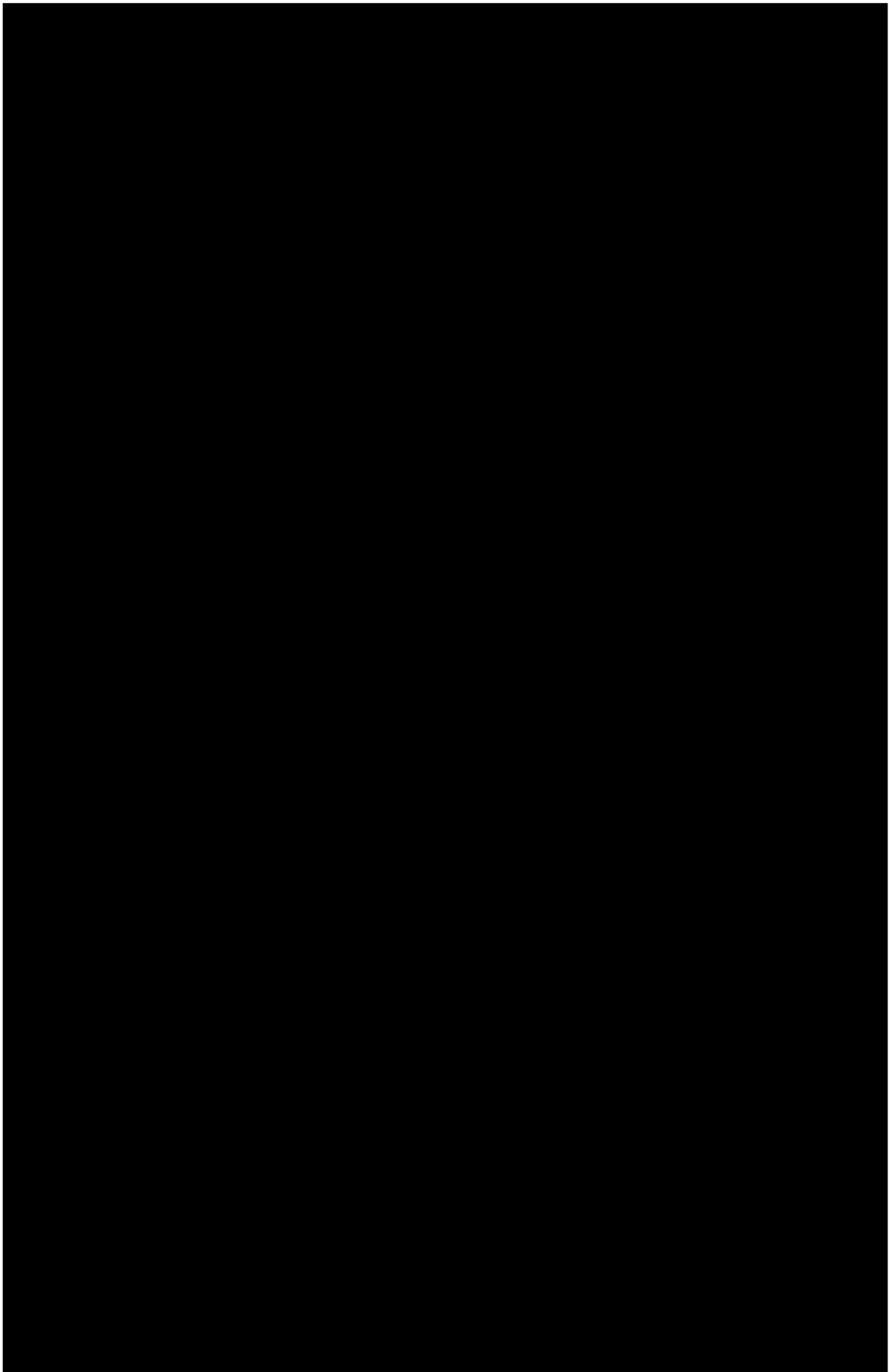


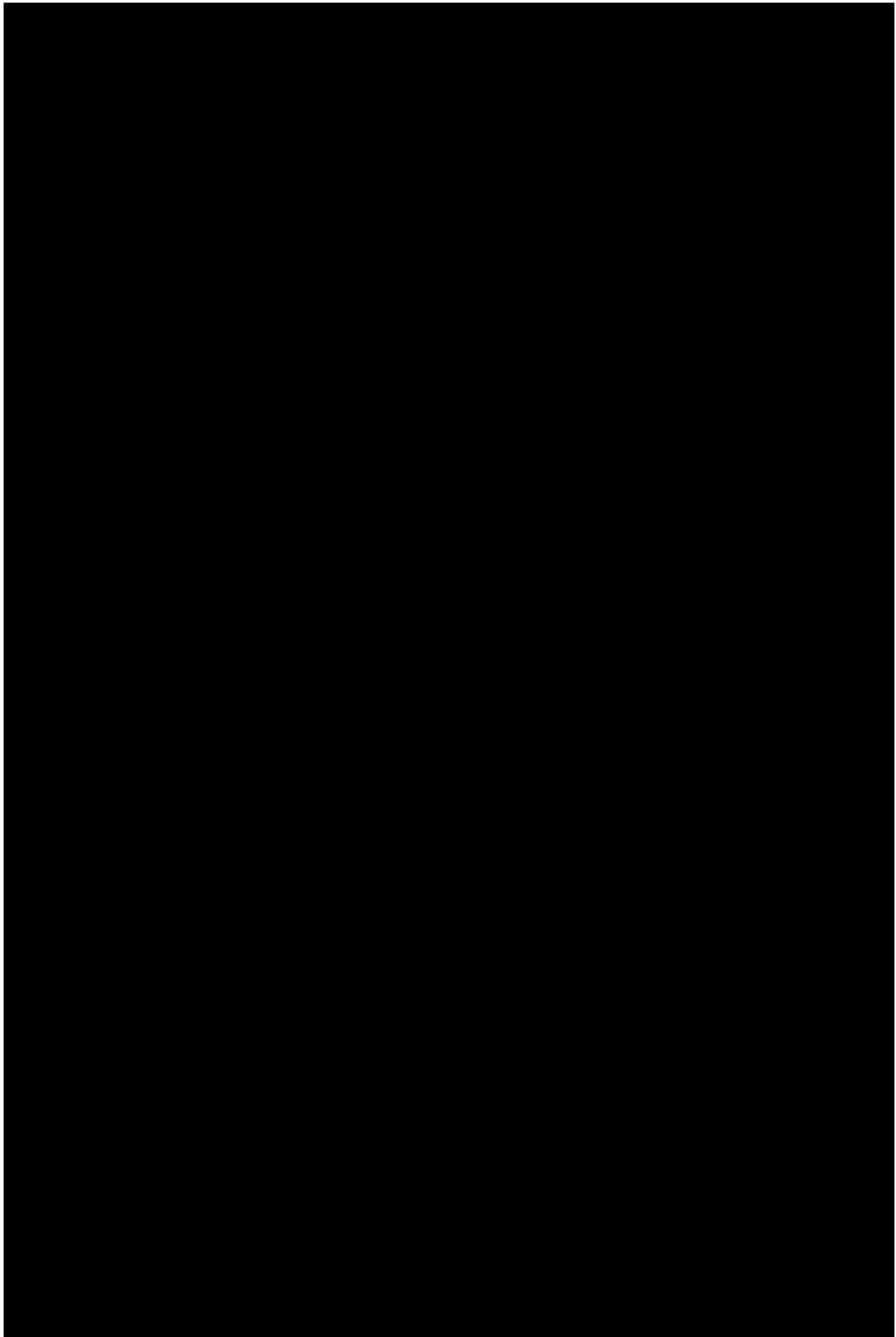
APPENDIX II

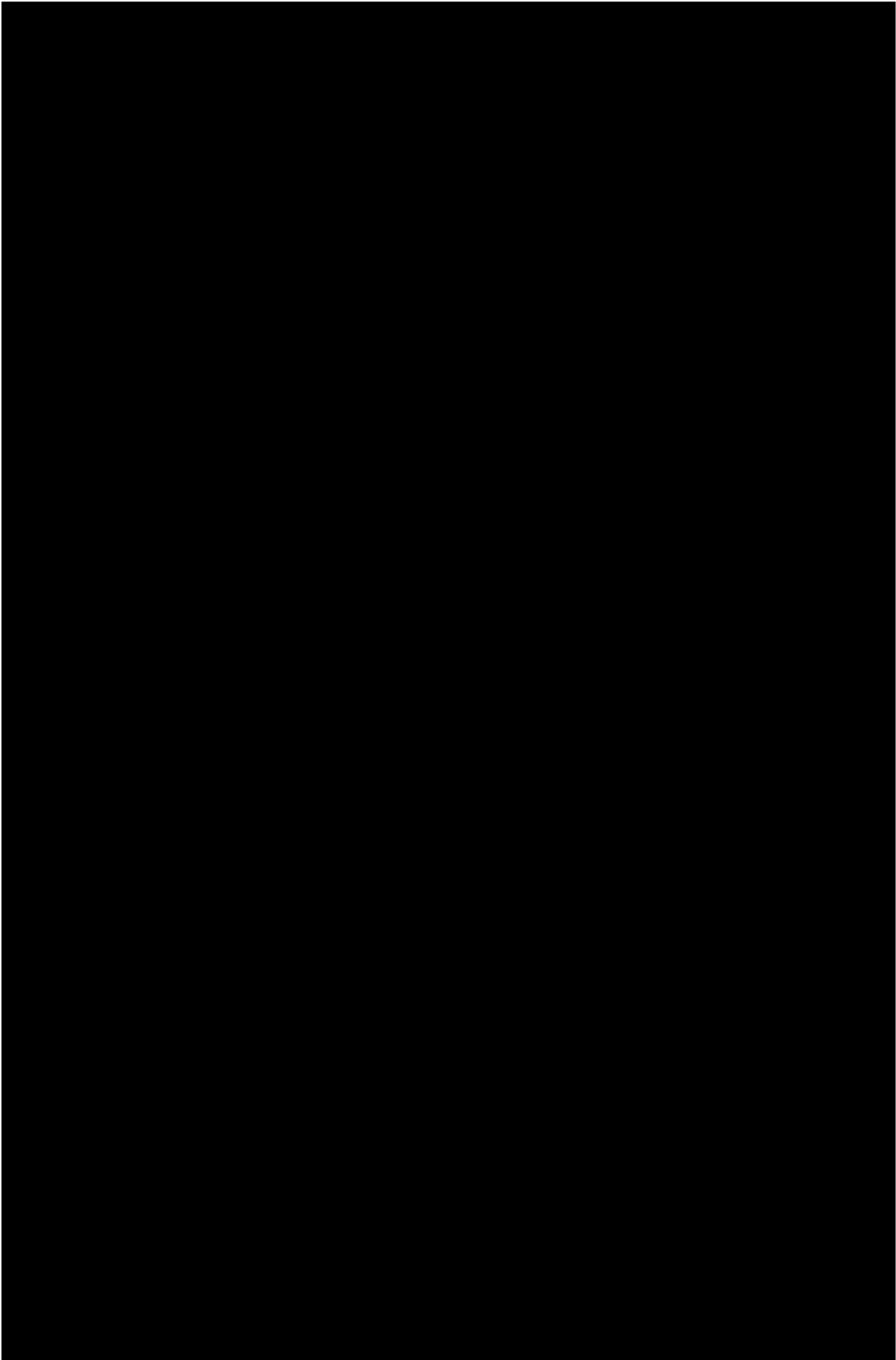
PLANNING CERTIFICATE (SECTION 10.7 PARTS 2 AND 5)

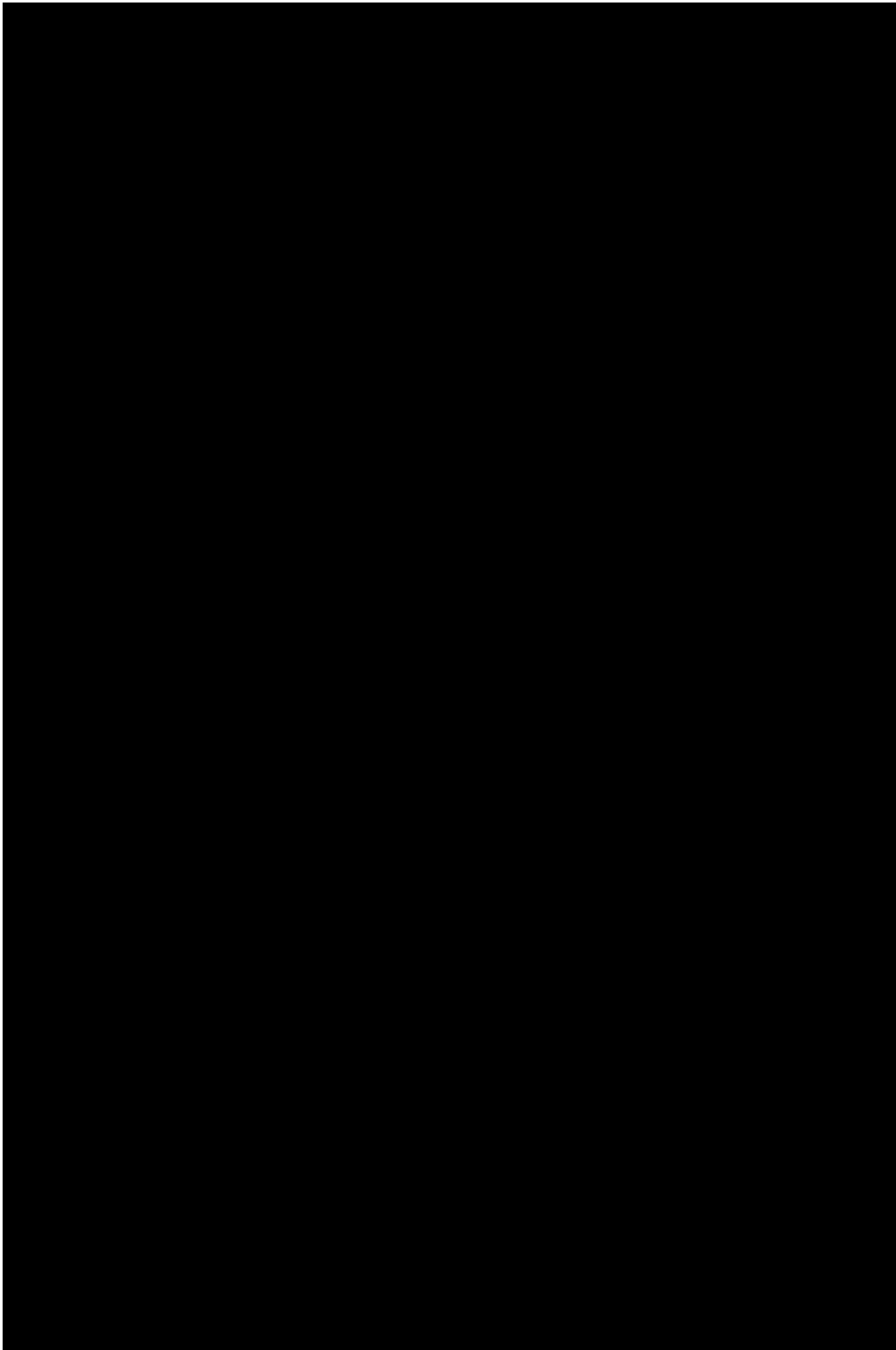


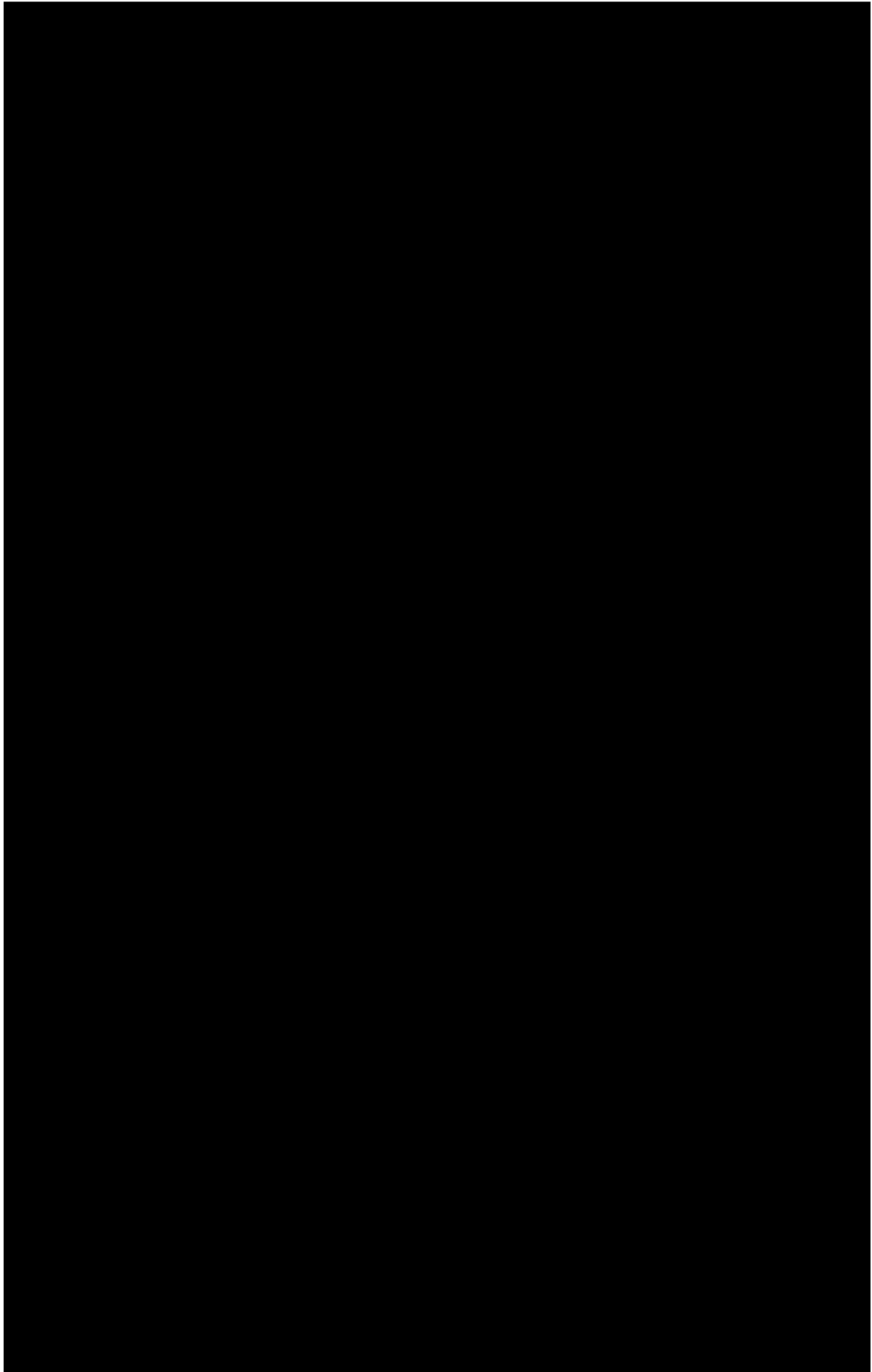


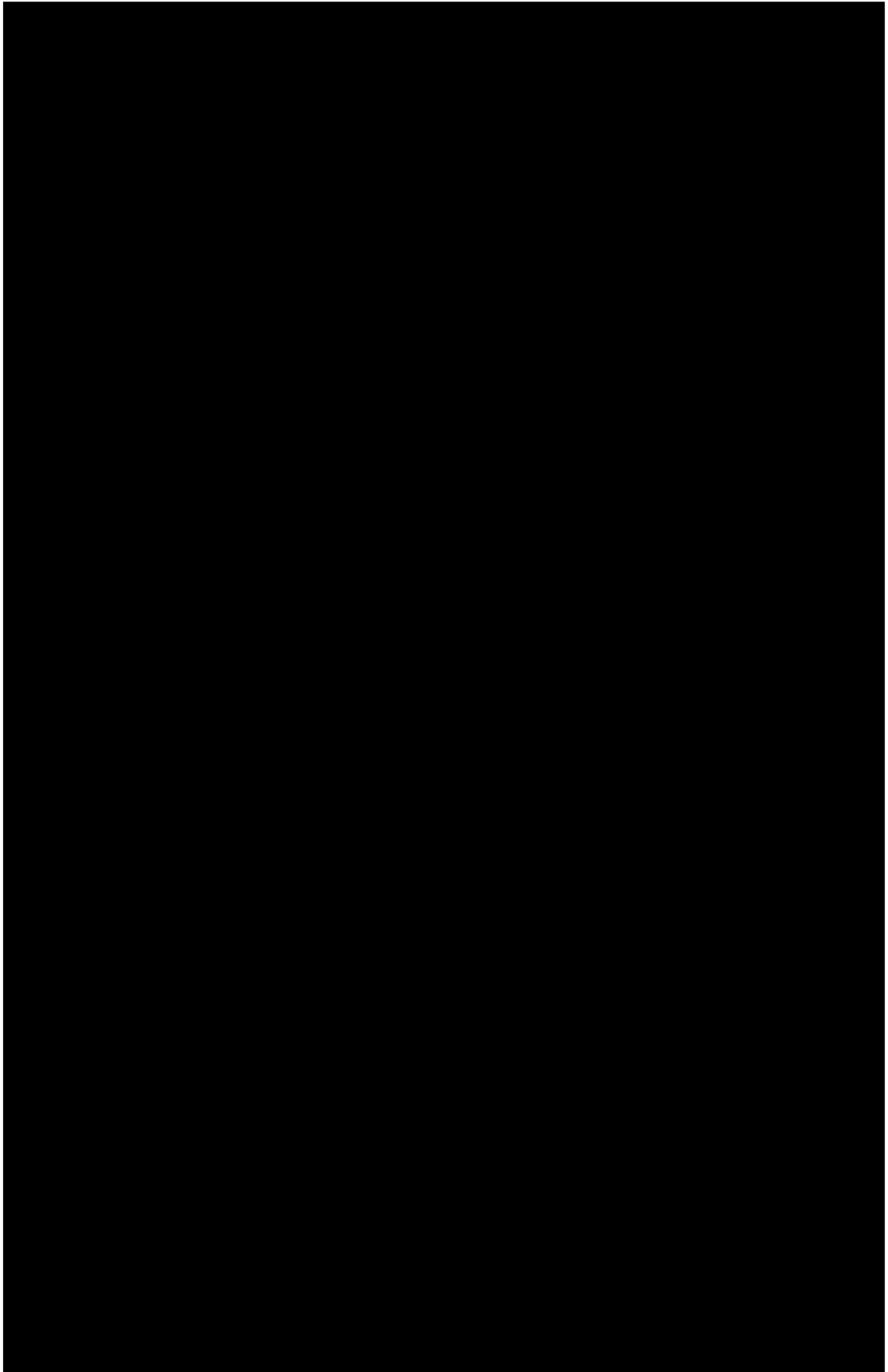


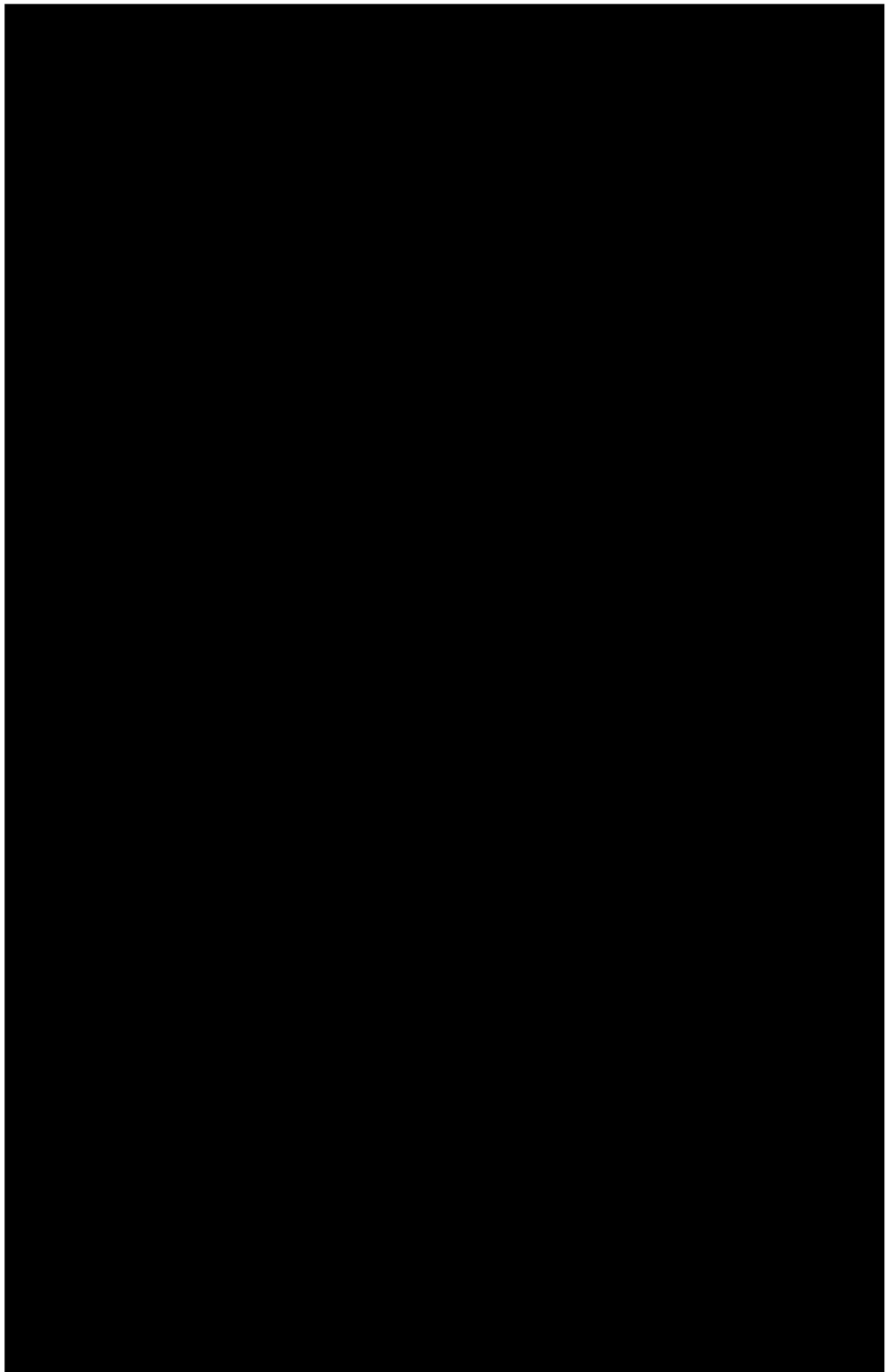


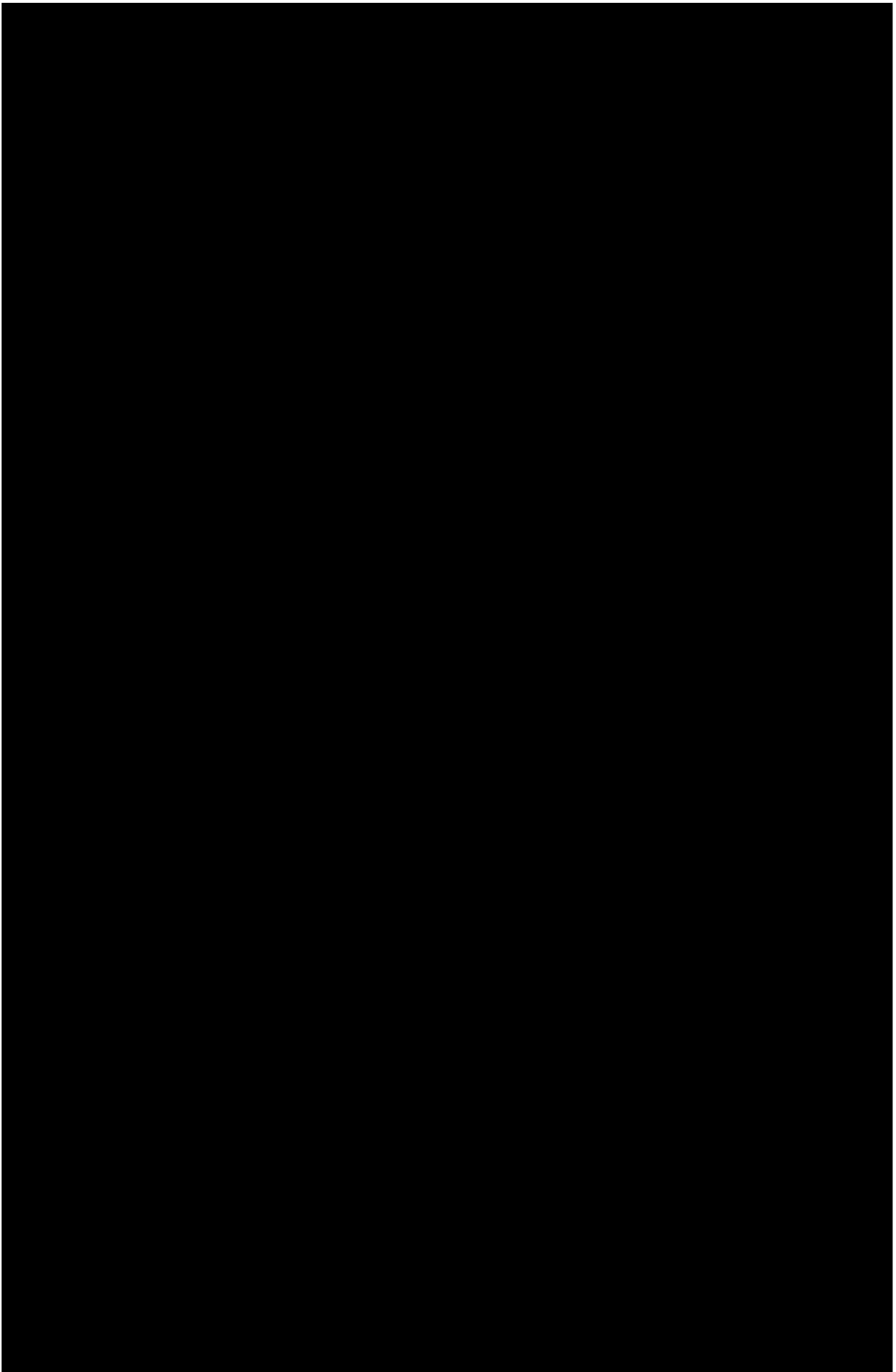


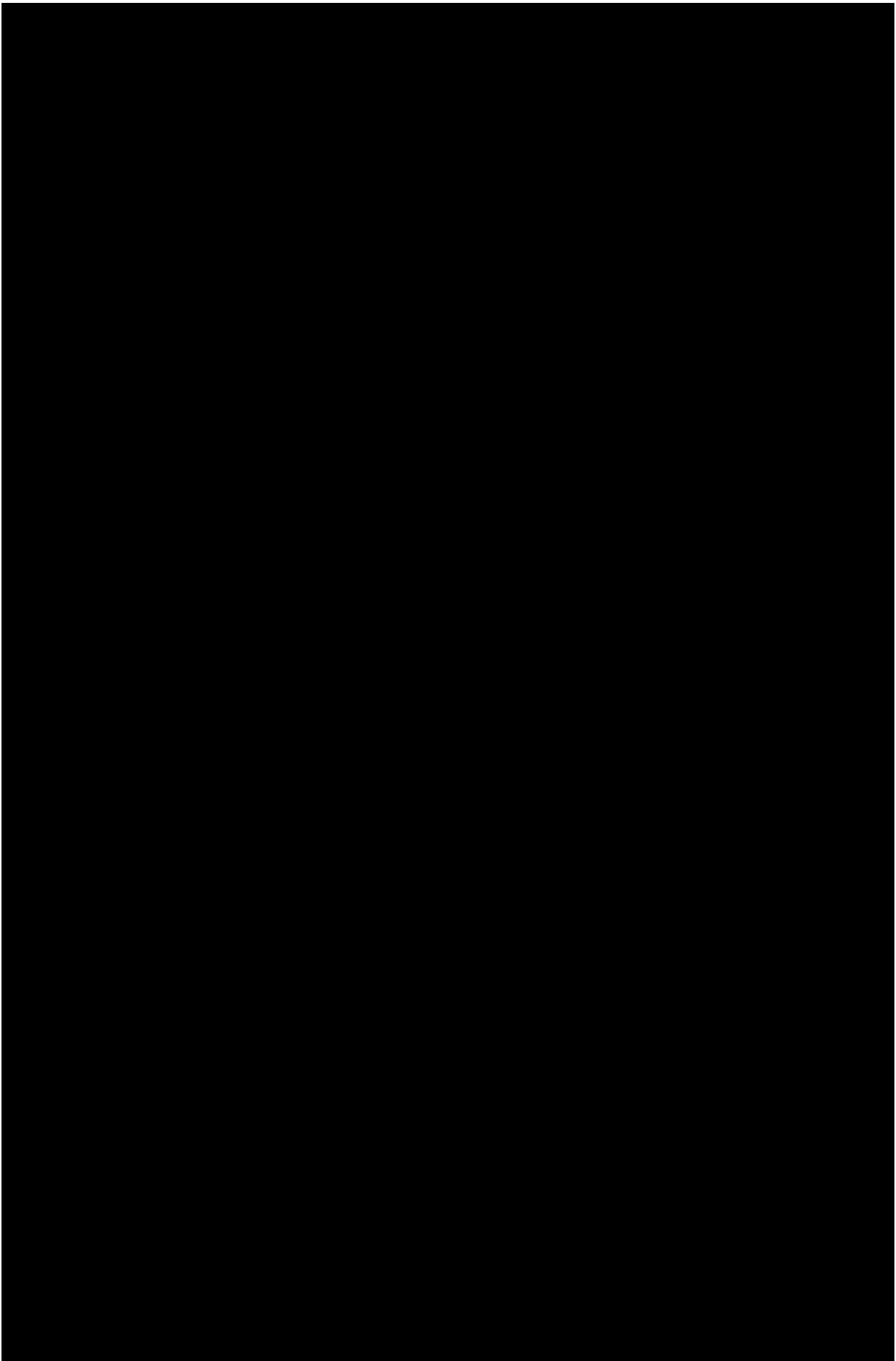


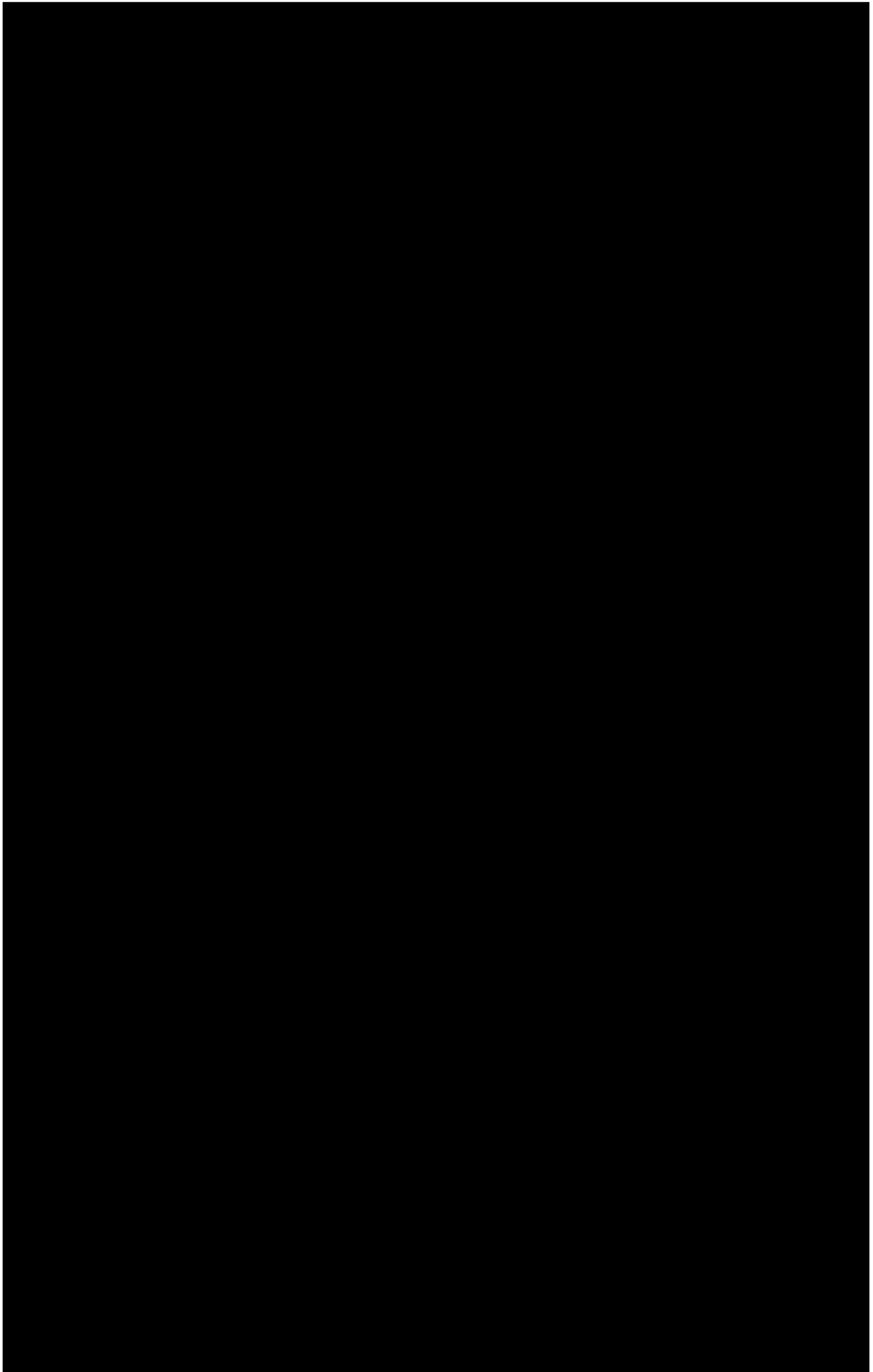


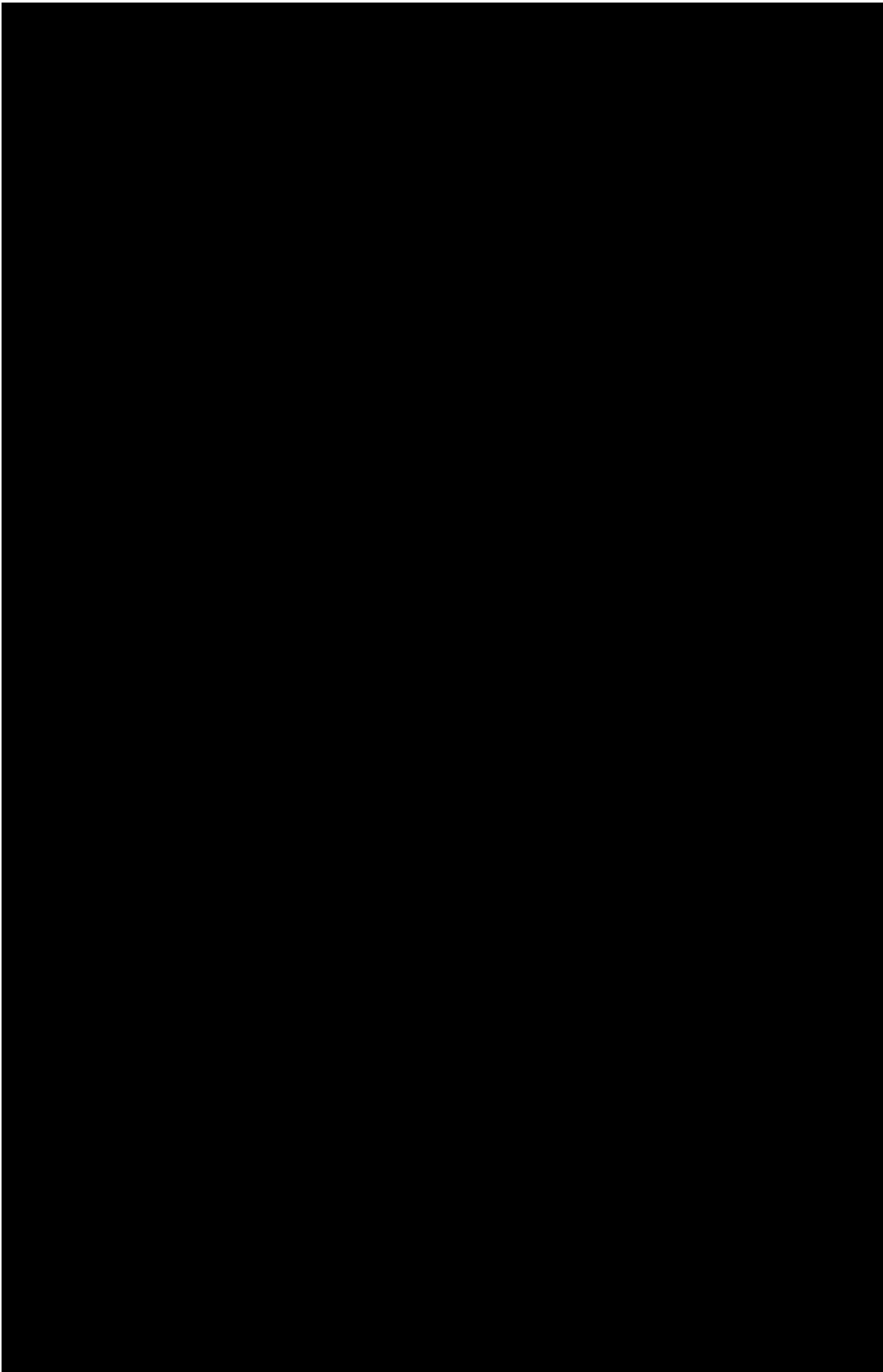














APPENDIX III

LOTSEARCH ENVIRO REPORT



Date: 09 Mar 2021 20:57:58

Reference: LS018568 EP

Address: 27a Phoenix Crescent, Erskine Park, NSW 2759

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

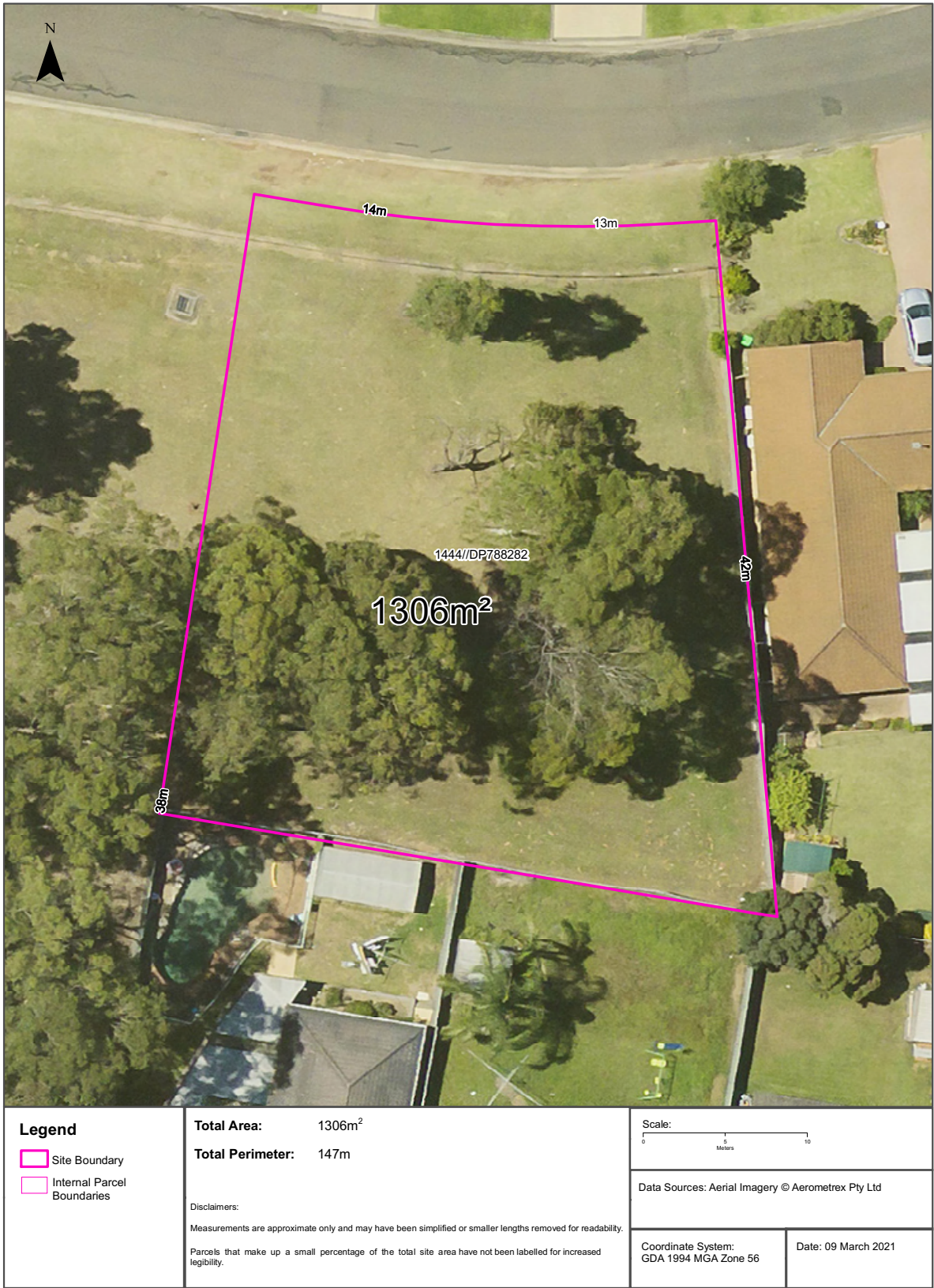
Datasets contained within this report, detailing their source and data currency:

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|---|---|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Cadastre Boundaries | NSW Department of Finance, Services & Innovation | 19/02/2021 | 19/02/2021 | Quarterly | - | - | - | - |
| Topographic Data | NSW Department of Finance, Services & Innovation | 25/06/2019 | 25/06/2019 | As required | - | - | - | - |
| List of NSW contaminated sites notified to EPA | Environment Protection Authority | 14/01/2021 | 14/01/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Contaminated Land Records of Notice | Environment Protection Authority | 04/03/2021 | 04/03/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Former Gasworks | Environment Protection Authority | 09/03/2021 | 11/10/2017 | Monthly | 1000 | 0 | 0 | 0 |
| National Waste Management Facilities Database | Geoscience Australia | 11/02/2021 | 07/03/2017 | Quarterly | 1000 | 0 | 0 | 0 |
| National Liquid Fuel Facilities | Geoscience Australia | 15/02/2021 | 13/07/2012 | Quarterly | 1000 | 0 | 0 | 0 |
| EPA PFAS Investigation Program | Environment Protection Authority | 15/02/2021 | 23/11/2020 | Monthly | 2000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Investigation Sites | Department of Defence | 02/03/2021 | 02/03/2021 | Monthly | 2000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Management Sites | Department of Defence | 02/03/2021 | 02/03/2021 | Monthly | 2000 | 0 | 0 | 0 |
| Airservices Australia National PFAS Management Program | Airservices Australia | 01/03/2021 | 01/03/2021 | Monthly | 2000 | 0 | 0 | 0 |
| Defence 3 Year Regional Contamination Investigation Program | Department of Defence | 15/02/2021 | 15/02/2021 | Monthly | 2000 | 0 | 0 | 0 |
| EPA Other Sites with Contamination Issues | Environment Protection Authority | 02/02/2021 | 13/12/2018 | Annually | 1000 | 0 | 0 | 0 |
| Licensed Activities under the POEO Act 1997 | Environment Protection Authority | 08/03/2021 | 08/03/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Delicensed POEO Activities still regulated by the EPA | Environment Protection Authority | 08/03/2021 | 08/03/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Former POEO Licensed Activities now revoked or surrendered | Environment Protection Authority | 08/03/2021 | 08/03/2021 | Monthly | 1000 | 0 | 0 | 3 |
| UBD Business Directories (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 0 | 0 | 0 |
| UBD Business Directories (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 0 | 0 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches) | Hardie Grant | | | Not required | 500 | 0 | 0 | 0 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches) | Hardie Grant | | | Not required | 500 | - | 0 | 0 |
| Points of Interest | NSW Department of Finance, Services & Innovation | 18/02/2021 | 18/02/2021 | Quarterly | 1000 | 0 | 1 | 39 |
| Tanks (Areas) | NSW Department of Customer Service - Spatial Services | 16/02/2021 | 16/02/2021 | Quarterly | 1000 | 0 | 0 | 2 |
| Tanks (Points) | NSW Department of Customer Service - Spatial Services | 16/02/2021 | 16/02/2021 | Quarterly | 1000 | 0 | 0 | 1 |
| Major Easements | NSW Department of Finance, Services & Innovation | 17/02/2021 | 17/02/2021 | Quarterly | 1000 | 0 | 0 | 1 |
| State Forest | Forestry Corporation of NSW | 25/02/2021 | 14/02/2021 | Annually | 1000 | 0 | 0 | 0 |
| NSW National Parks and Wildlife Service Reserves | NSW Office of Environment & Heritage | 22/01/2021 | 11/12/2020 | Annually | 1000 | 0 | 0 | 0 |
| Hydrogeology Map of Australia | Commonwealth of Australia (Geoscience Australia) | 08/10/2014 | 17/03/2000 | As required | 1000 | 1 | 1 | 1 |
| Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 | NSW Department of Planning, Industry and Environment | 26/10/2020 | 21/02/2018 | Annually | 1000 | 0 | 0 | 0 |

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|--|--|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Groundwater Boreholes | NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology) | 24/07/2018 | 23/07/2018 | Annually | 2000 | 0 | 0 | 10 |
| Geological Units 1:100,000 | NSW Department of Planning, Industry and Environment | 20/08/2014 | | Annually | 1000 | 1 | - | 2 |
| Geological Structures 1:100,000 | NSW Department of Planning, Industry and Environment | 20/08/2014 | | Annually | 1000 | 0 | - | 0 |
| Naturally Occurring Asbestos Potential | NSW Dept. of Industry, Resources & Energy | 04/12/2015 | 24/09/2015 | Unknown | 1000 | 0 | 0 | 0 |
| Atlas of Australian Soils | Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES) | 19/05/2017 | 17/02/2011 | As required | 1000 | 1 | 1 | 2 |
| Soil Landscapes of Central and Eastern NSW | NSW Department of Planning, Industry and Environment | 14/10/2020 | 27/07/2020 | Annually | 1000 | 1 | - | 2 |
| Environmental Planning Instrument Acid Sulfate Soils | NSW Department of Planning, Industry and Environment | 22/02/2021 | 12/02/2021 | Monthly | 500 | 0 | - | - |
| Atlas of Australian Acid Sulfate Soils | CSIRO | 19/01/2017 | 21/02/2013 | As required | 1000 | 1 | 1 | 1 |
| Dryland Salinity - National Assessment | National Land and Water Resources Audit | 18/07/2014 | 12/05/2013 | None planned | 1000 | 1 | 1 | 2 |
| Dryland Salinity Potential of Western Sydney | NSW Department of Planning, Industry and Environment | 12/05/2017 | 01/01/2002 | None planned | 1000 | 1 | 1 | 4 |
| Mining Subsidence Districts | NSW Department of Customer Service - Subsidence Advisory NSW | 16/02/2021 | 16/02/2021 | Quarterly | 1000 | 0 | 0 | 0 |
| Current Mining Titles | NSW Department of Industry | 04/03/2021 | 04/03/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Mining Title Applications | NSW Department of Industry | 04/03/2021 | 04/03/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Historic Mining Titles | NSW Department of Industry | 04/03/2021 | 04/03/2021 | Monthly | 1000 | 8 | 8 | 9 |
| Environmental Planning Instrument SEPP State Significant Precincts | NSW Department of Planning, Industry and Environment | 22/02/2021 | 07/12/2018 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Planning Instrument Land Zoning | NSW Department of Planning, Industry and Environment | 22/02/2021 | 12/02/2021 | Monthly | 1000 | 1 | 3 | 35 |
| Commonwealth Heritage List | Australian Government Department of the Agriculture, Water and the Environment | 23/02/2021 | 20/11/2019 | Quarterly | 1000 | 0 | 0 | 0 |
| National Heritage List | Australian Government Department of the Agriculture, Water and the Environment | 23/02/2021 | 20/11/2019 | Quarterly | 1000 | 0 | 0 | 0 |
| State Heritage Register - Curtilages | NSW Department of Planning, Industry and Environment | 15/02/2021 | 30/11/2020 | Quarterly | 1000 | 0 | 0 | 0 |
| Environmental Planning Instrument Local Heritage | NSW Department of Planning, Industry and Environment | 22/02/2021 | 12/02/2021 | Monthly | 1000 | 0 | 0 | 0 |
| Bush Fire Prone Land | NSW Rural Fire Service | 08/03/2021 | 11/02/2021 | Weekly | 1000 | 0 | 0 | 3 |
| Remnant Vegetation of the Cumberland Plain | NSW Office of Environment & Heritage | 07/10/2014 | 04/08/2011 | Unknown | 1000 | 1 | 1 | 5 |
| Ramsar Wetlands of Australia | Australian Government Department of Agriculture, Water and the Environment | 24/02/2021 | 19/03/2020 | Annually | 1000 | 0 | 0 | 0 |
| Groundwater Dependent Ecosystems | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Annually | 1000 | 0 | 0 | 3 |
| Inflow Dependent Ecosystems Likelihood | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Unknown | 1000 | 0 | 0 | 4 |
| NSW BioNet Species Sightings | NSW Office of Environment & Heritage | 08/03/2021 | 08/03/2021 | Weekly | 10000 | - | - | - |

Site Diagram

27a Phoenix Crescent, Erskine Park, NSW 2759



Contaminated Land

27a Phoenix Crescent, Erskine Park, NSW 2759

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

| Map Id | Site | Address | Suburb | Activity | Management Class | Status | Location Confidence | Dist (m) | Direction |
|--------|----------------------|---------|--------|----------|------------------|--------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | | | | |

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

| EPA site management class | Explanation |
|---|---|
| Contamination being managed via the planning process (EP&A Act) | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment. |
| Contamination currently regulated under CLM Act | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices. |
| Contamination currently regulated under POEO Act | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register. |
| Contamination formerly regulated under the CLM Act | The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act. |
| Contamination formerly regulated under the POEO Act | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act). |
| Contamination was addressed via the planning process (EP&A Act) | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act). |
| Ongoing maintenance required to manage residual contamination (CLM Act) | The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices. |
| Regulation being finalised | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised. |
| Regulation under the CLM Act not required | The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required. |
| Under assessment | The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order. |

NSW EPA Contaminated Land List Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Contaminated Land

27a Phoenix Crescent, Erskine Park, NSW 2759

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

| Map Id | Name | Address | Suburb | Notices | Area No | Location Confidence | Distance | Direction |
|--------|----------------------|---------|--------|---------|---------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | | | |

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

| Map Id | Location | Council | Further Info | Location Confidence | Distance | Direction |
|--------|----------------------|---------|--------------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | |

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

27a Phoenix Crescent, Erskine Park, NSW 2759

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

| Site Id | Owner | Name | Address | Suburb | Class | Landfill | Reprocess | Transfer | Comments | Loc Conf | Dist (m) | Direction |
|---------|----------------------|------|---------|--------|-------|----------|-----------|----------|----------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | | | | | |

Waste Management Facilities Data Source: Geoscience Australia

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

| Map Id | Owner | Name | Address | Suburb | Class | Operational Status | Operator | Revision Date | Loc Conf | Dist (m) | Direction |
|--------|----------------------|------|---------|--------|-------|--------------------|----------|---------------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | | | | |

National Liquid Fuel Facilities Data Source: Geoscience Australia

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

PFAS Investigation & Management Programs

27a Phoenix Crescent, Erskine Park, NSW 2759

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

| Id | Site | Address | Loc Conf | Dist | Dir |
|-----|----------------------|---------|----------|------|-----|
| N/A | No records in buffer | | | | |

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

| Map ID | Base Name | Address | Loc Conf | Dist | Dir |
|--------|----------------------|---------|----------|------|-----|
| N/A | No records in buffer | | | | |

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

| Map ID | Base Name | Address | Loc Conf | Dist | Dir |
|--------|----------------------|---------|----------|------|-----|
| N/A | No records in buffer | | | | |

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

| Map ID | Site Name | Impacts | Loc Conf | Dist | Dir |
|--------|----------------------|---------|----------|------|-----|
| N/A | No records in buffer | | | | |

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

27a Phoenix Crescent, Erskine Park, NSW 2759

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

| Property ID | Base Name | Address | Known Contamination | Loc Conf | Dist | Dir |
|-------------|----------------------|---------|---------------------|----------|------|-----|
| N/A | No records in buffer | | | | | |

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

27a Phoenix Crescent, Erskine Park, NSW 2759

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

| Site Id | Site Name | Site Address | Dataset | Comments | Location Confidence | Distance | Direction |
|---------|----------------------|--------------|---------|----------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | | |

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

EPA Activities

27a Phoenix Crescent, Erskine Park, NSW 2759

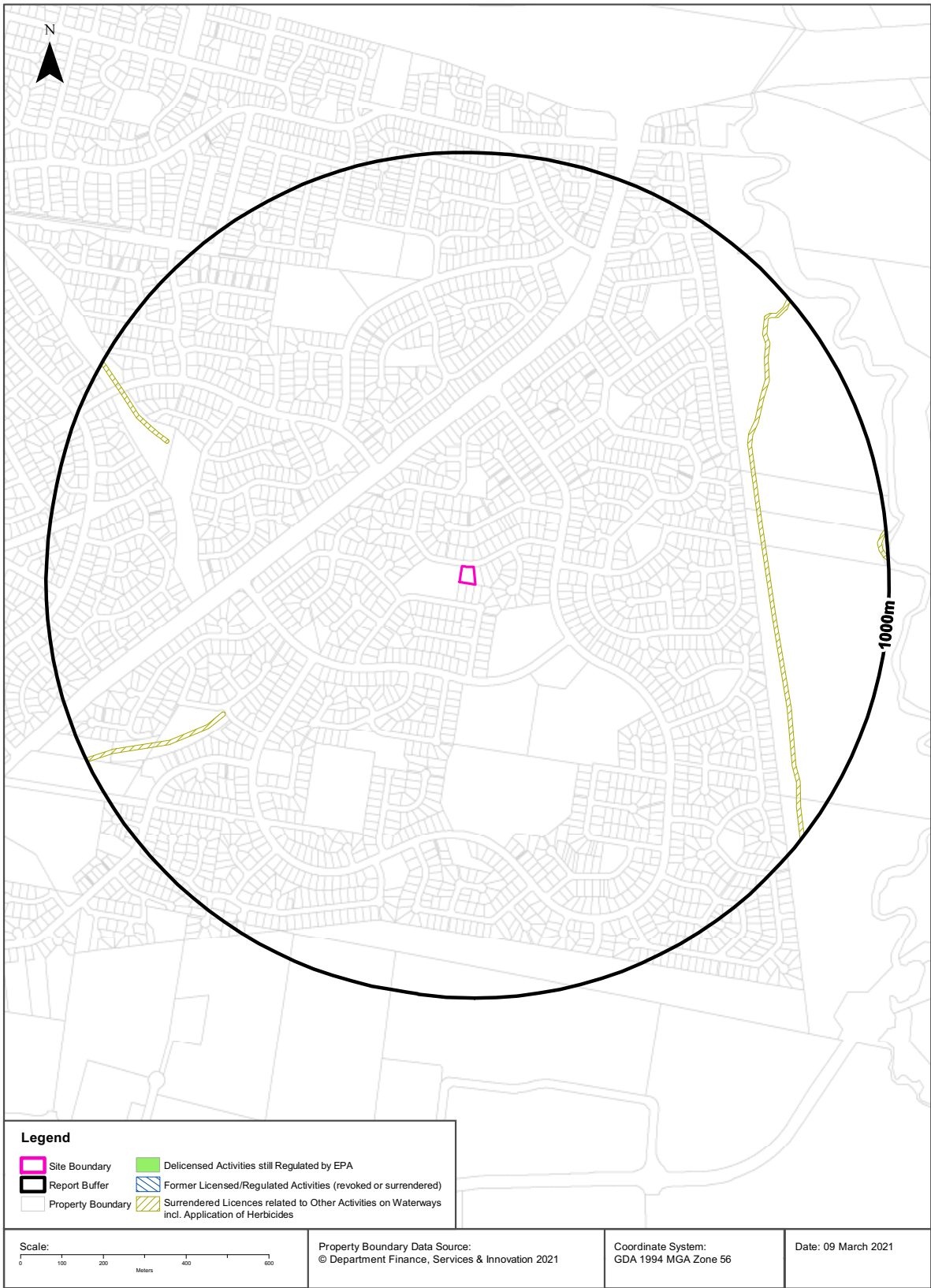
Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

| EPL | Organisation | Name | Address | Suburb | Activity | Loc Conf | Distance | Direction |
|-----|----------------------|------|---------|--------|----------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | |

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities
 27a Phoenix Crescent, Erskine Park, NSW 2759



EPA Activities

27a Phoenix Crescent, Erskine Park, NSW 2759

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

| Licence No | Organisation | Name | Address | Suburb | Activity | Loc Conf | Distance | Direction |
|------------|----------------------|------|---------|--------|----------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | |

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

| Licence No | Organisation | Location | Status | Issued Date | Activity | Loc Conf | Distance | Direction |
|------------|---|--|-------------|-------------|---|---------------------|----------|-----------|
| 4653 | LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD | WATERWAYS THROUGHOUT NSW | Surrendered | 06/09/2000 | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 649m | - |
| 4838 | Robert Orchard | Various Waterways throughout New South Wales - SYDNEY NSW 2000 | Surrendered | 07/09/2000 | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 649m | - |
| 6630 | SYDNEY WEED & PEST MANAGEMENT PTY LTD | WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148 | Surrendered | 09/11/2000 | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 649m | - |

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

27a Phoenix Crescent, Erskine Park, NSW 2759

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1986, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|----------------------|---------|---------|------|---------------------|--|-----------|
| | No records in buffer | | | | | | |

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records from years 1991, 1986, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|----------------------|---------|---------|------|---------------------|-----------------------------------|
| | No records in buffer | | | | | |

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

27a Phoenix Crescent, Erskine Park, NSW 2759

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|--------|----------------------|---------|---------|------|---------------------|--|-----------|
| | No records in buffer | | | | | | |

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Dry Cleaners, Motor Garages & Service Stations 1948-1993 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|--------|----------------------|---------|---------|------|---------------------|-----------------------------------|
| | No records in buffer | | | | | |

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Aerial Imagery 2020

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 2015

27a Phoenix Crescent, Erskine Park, NSW 2759



Lotsearch Pty Ltd ABN 89 600 168 018

19

Aerial Imagery 2009

27a Phoenix Crescent, Erskine Park, NSW 2759



Lotsearch Pty Ltd ABN 89 600 168 018

20

Aerial Imagery 2000

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 1994

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 1991

27a Phoenix Crescent, Erskine Park, NSW 2759



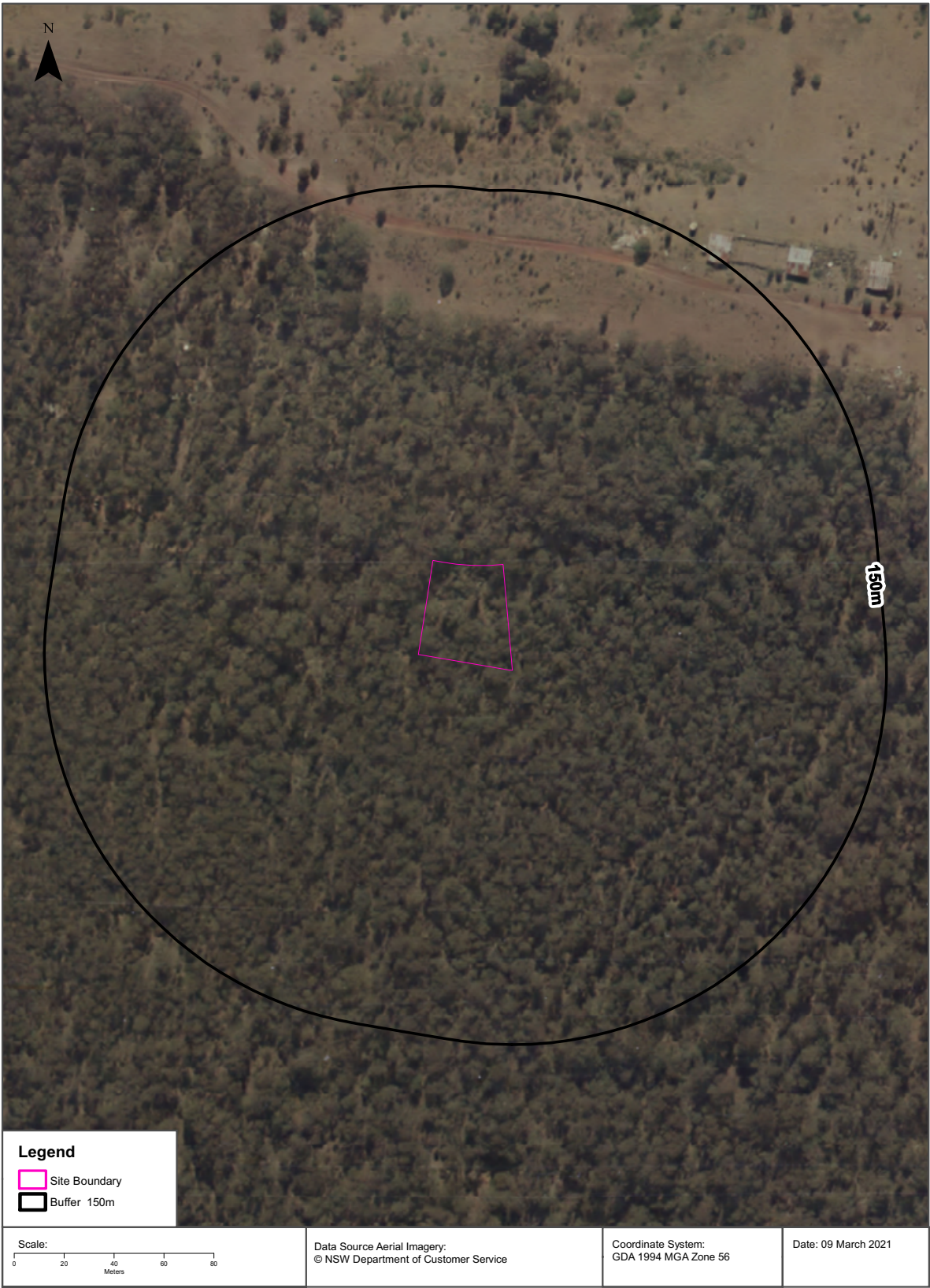
Aerial Imagery 1986

27a Phoenix Crescent, Erskine Park, NSW 2759



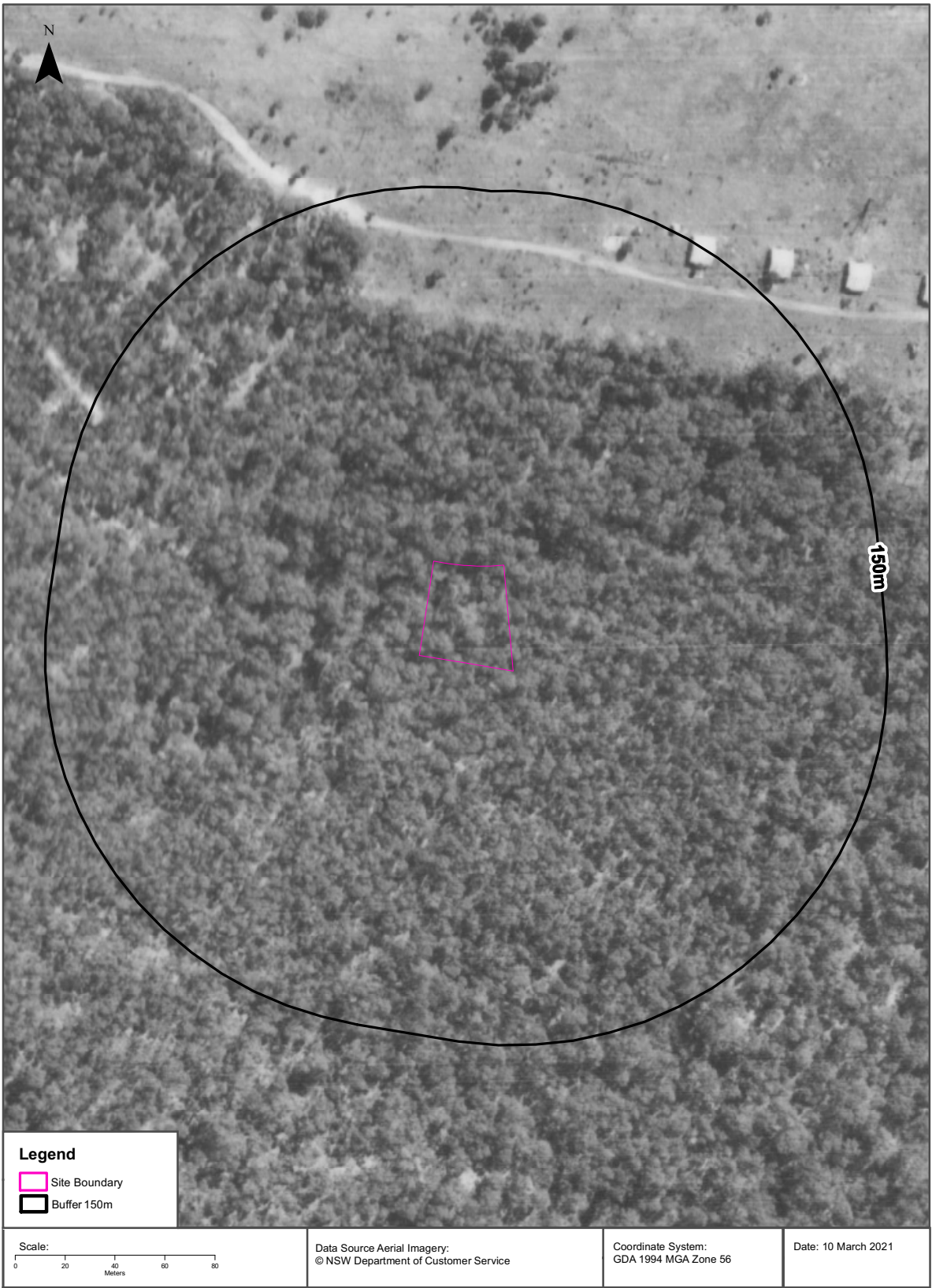
Aerial Imagery 1982

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 1978

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 1970

27a Phoenix Crescent, Erskine Park, NSW 2759



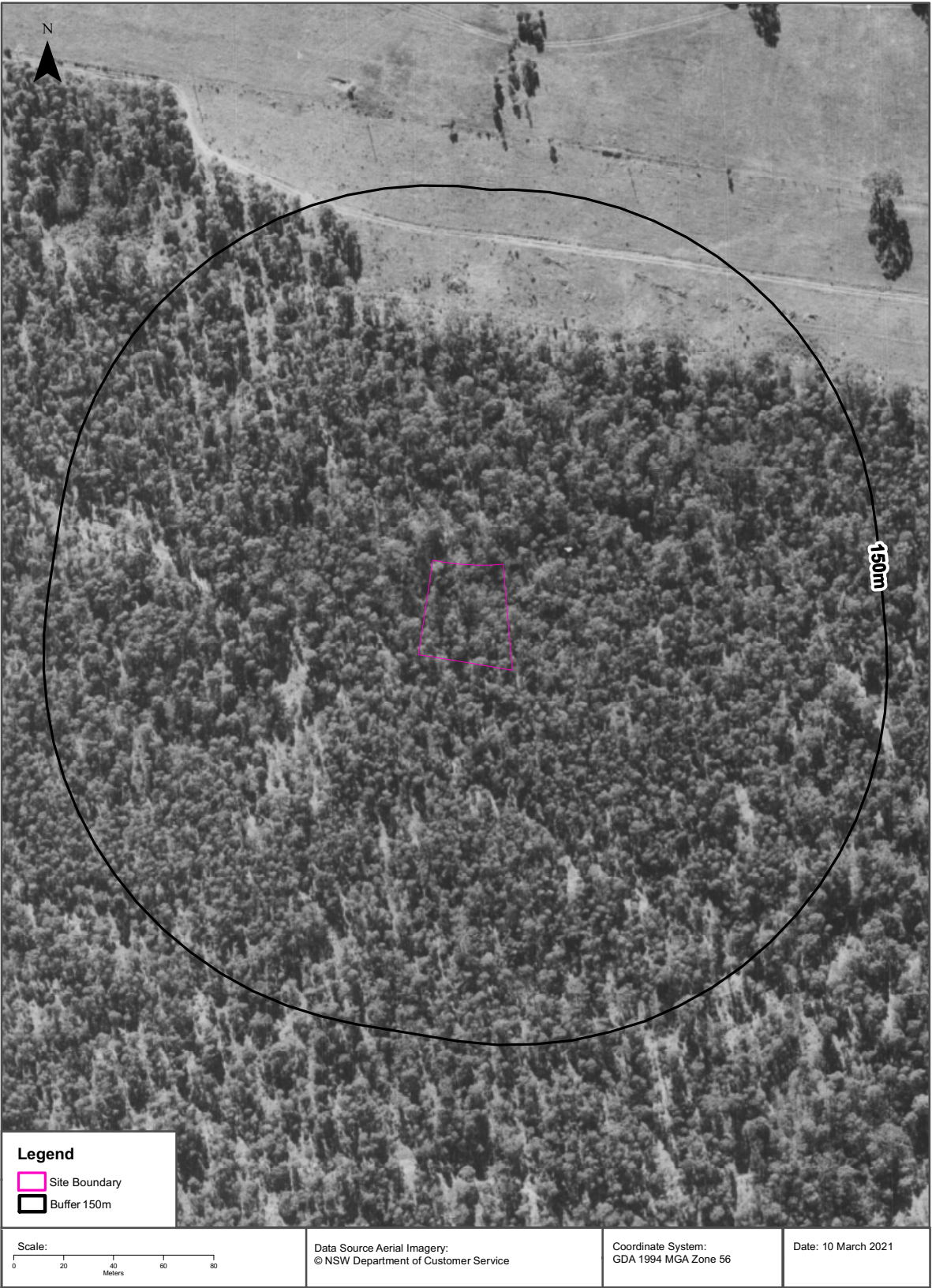
Aerial Imagery 1965

27a Phoenix Crescent, Erskine Park, NSW 2759



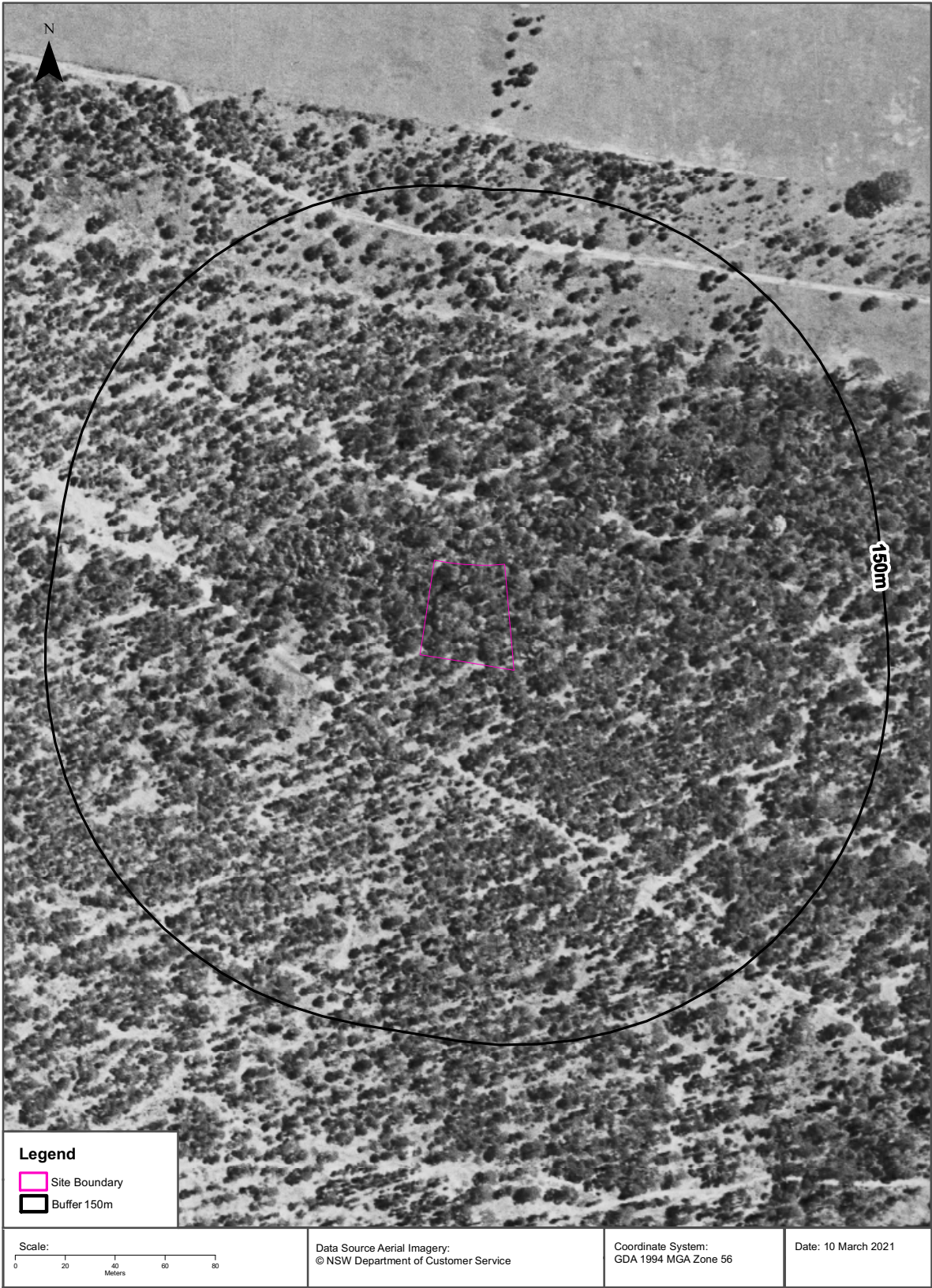
Aerial Imagery 1961

27a Phoenix Crescent, Erskine Park, NSW 2759



Aerial Imagery 1956

27a Phoenix Crescent, Erskine Park, NSW 2759



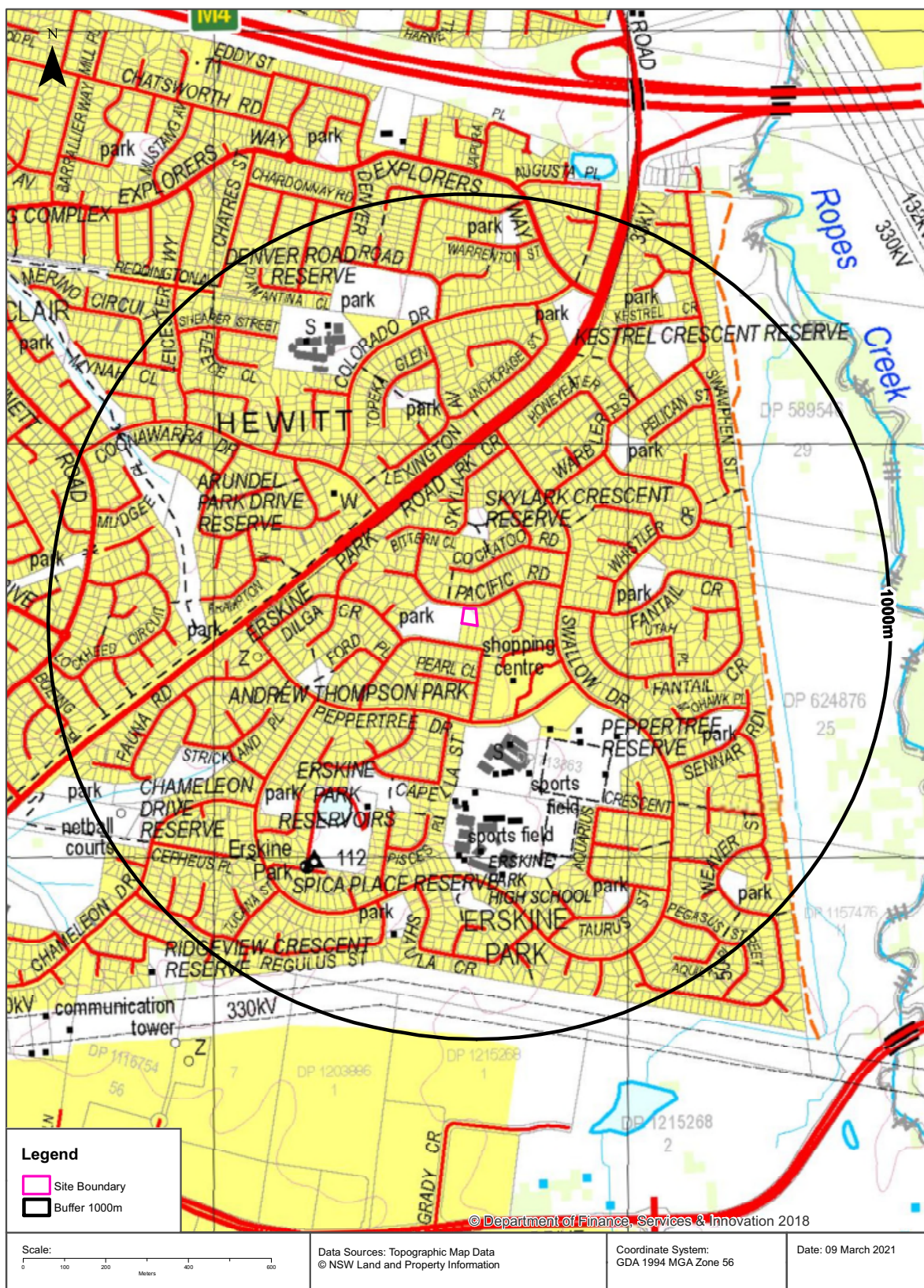
Aerial Imagery 1949

27a Phoenix Crescent, Erskine Park, NSW 2759



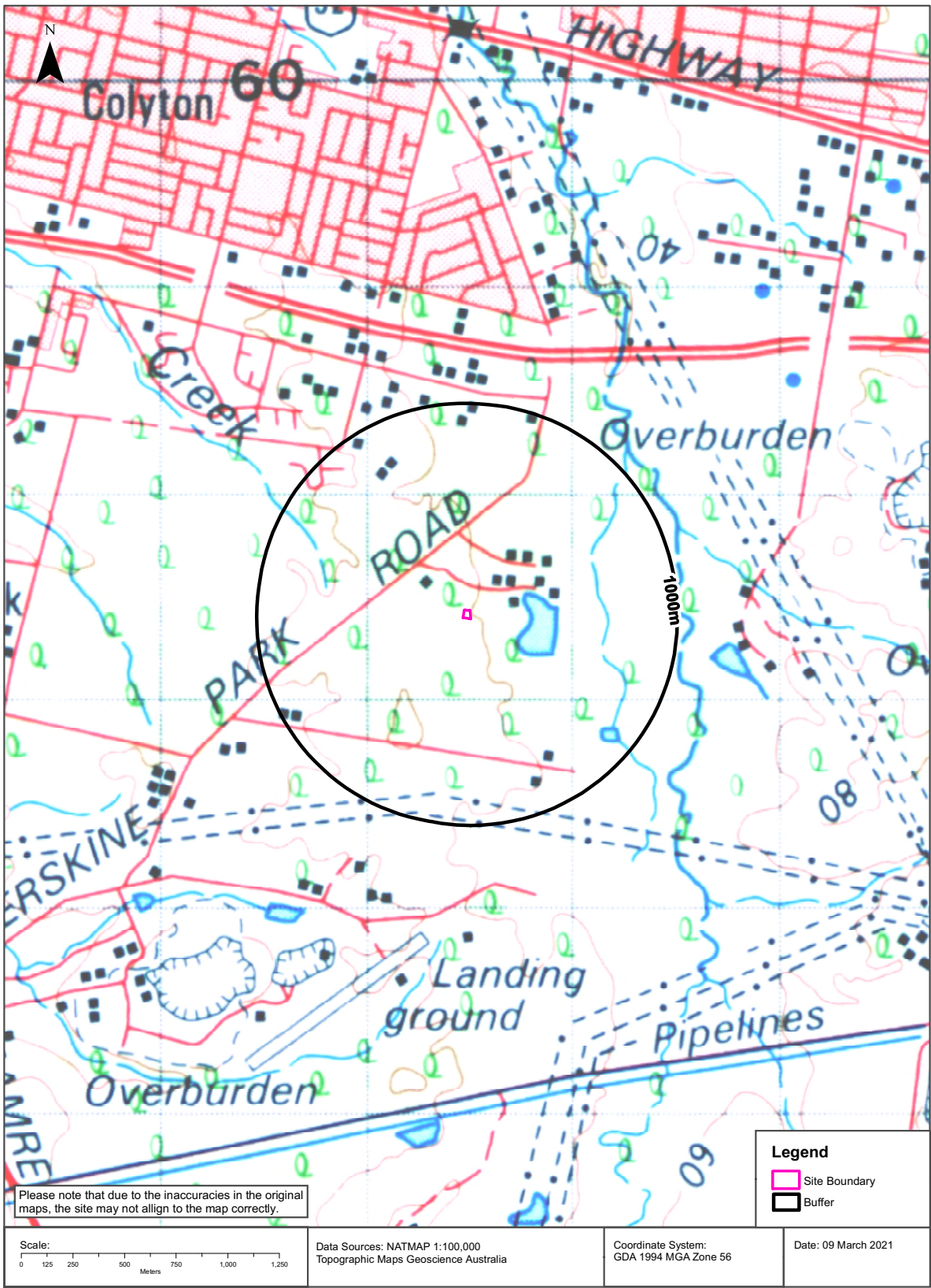
Topographic Map 2015

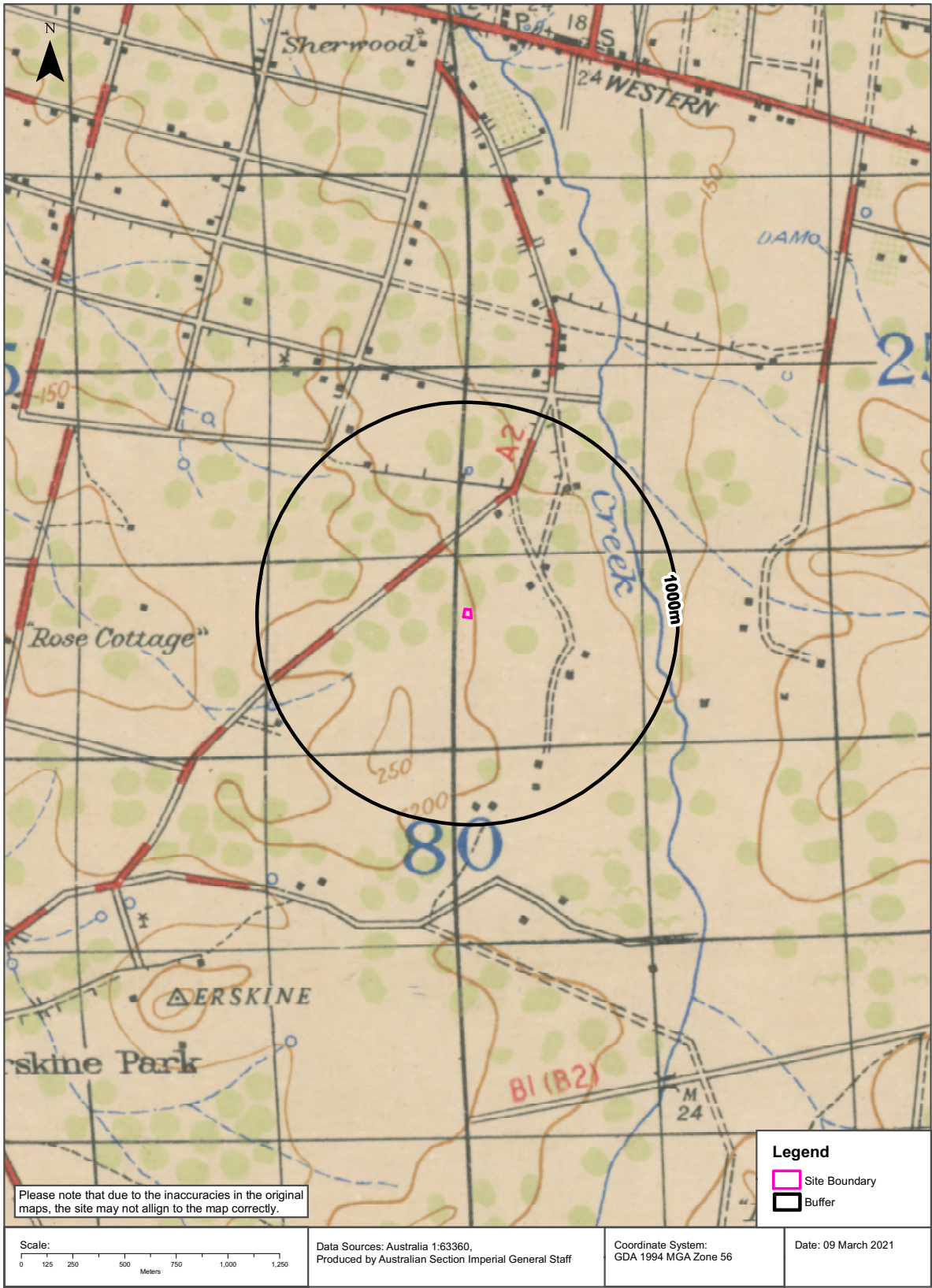
27a Phoenix Crescent, Erskine Park, NSW 2759



Historical Map 1975

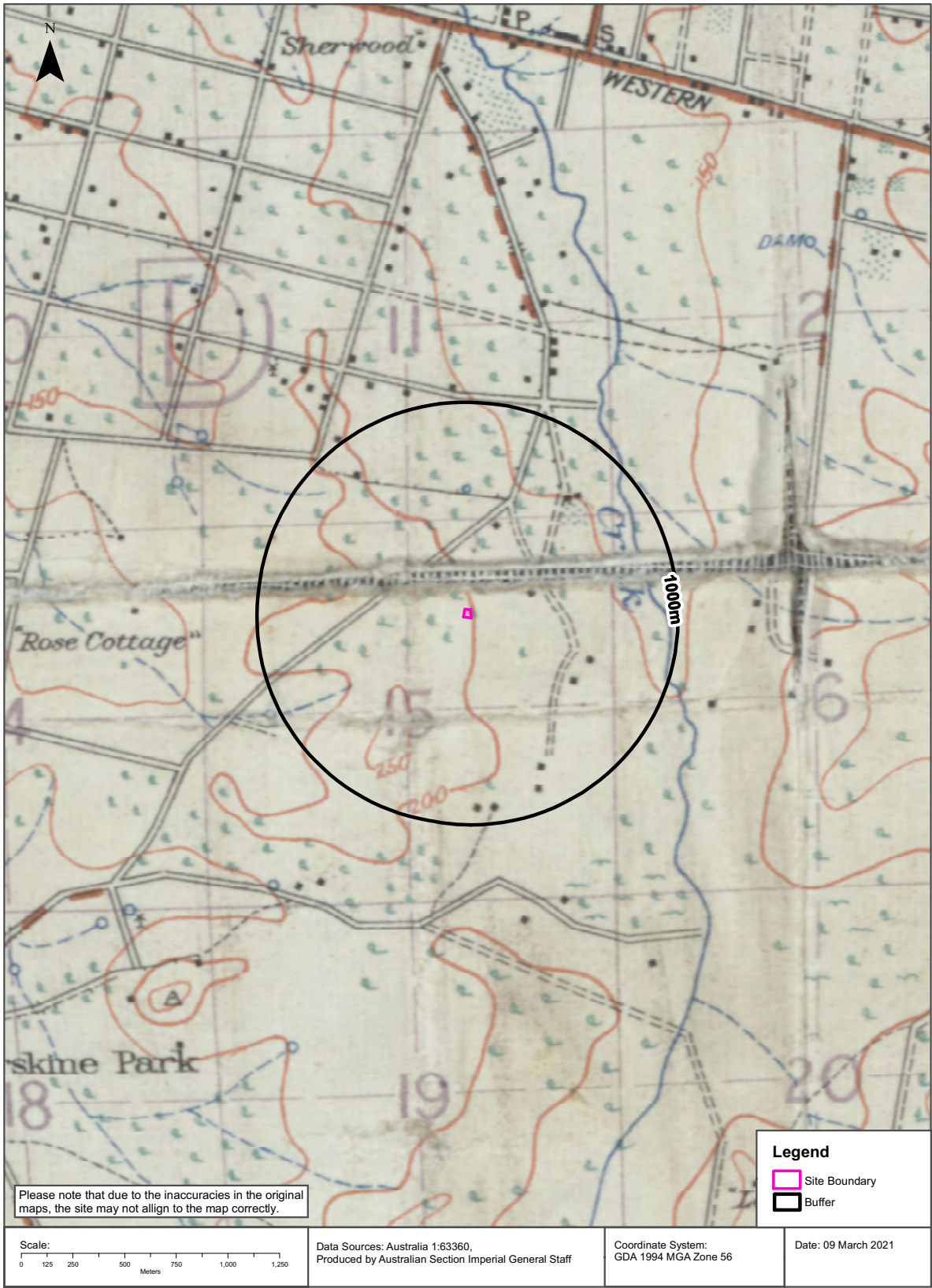
27a Phoenix Crescent, Erskine Park, NSW 2759





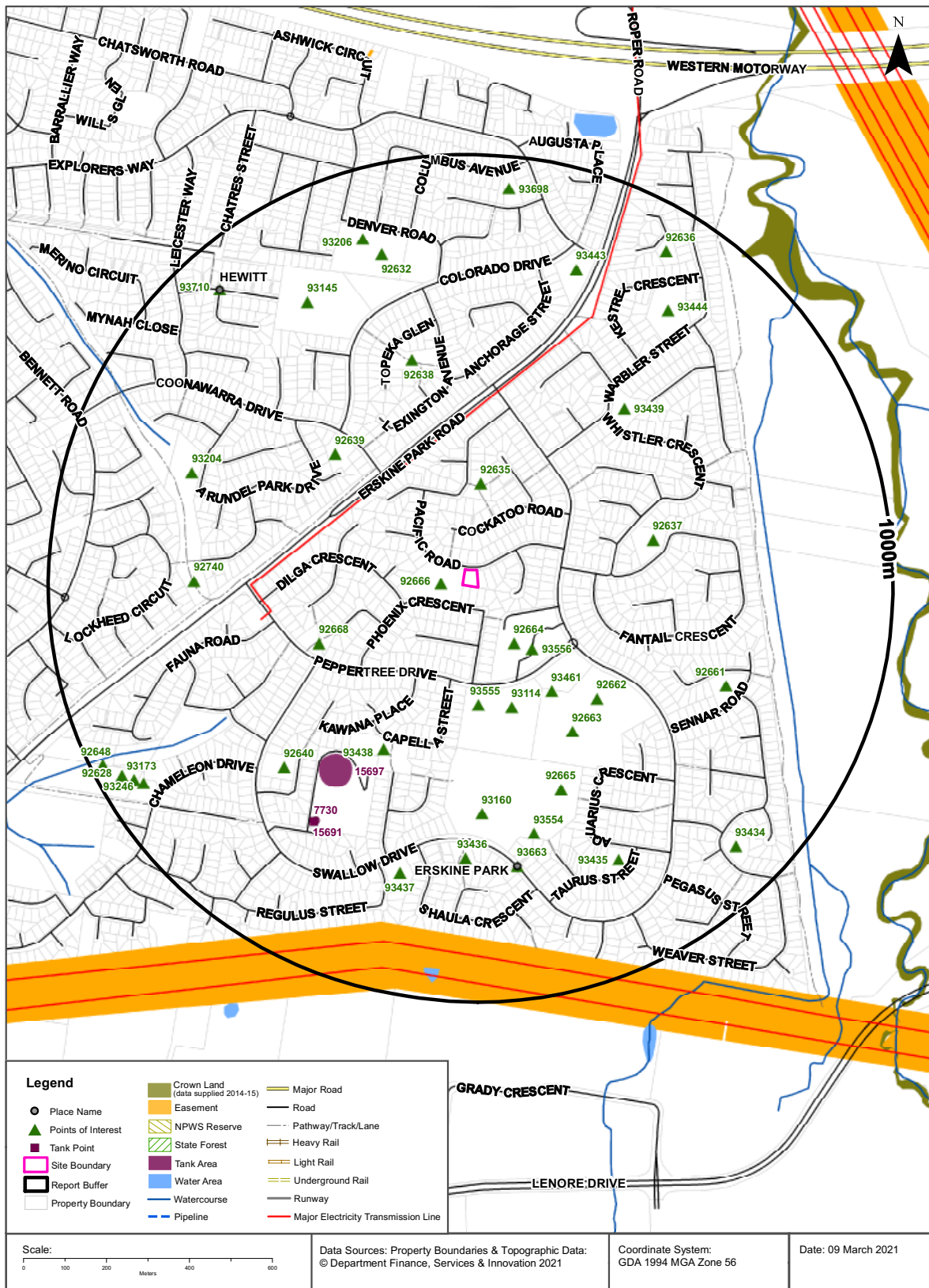
Historical Map c.1929

27a Phoenix Crescent, Erskine Park, NSW 2759



Topographic Features

27a Phoenix Crescent, Erskine Park, NSW 2759



Topographic Features

27a Phoenix Crescent, Erskine Park, NSW 2759

Points of Interest

What Points of Interest exist within the dataset buffer?

| Map Id | Feature Type | Label | Distance | Direction |
|--------|--------------------|-------------------------------|----------|------------|
| 92666 | Park | Park | 54m | West |
| 92664 | Shopping Centre | ERSKINE PARK SHOPPING CENTRE | 158m | South East |
| 93556 | Parking Area | Parking Area | 195m | South East |
| 92635 | Park | SKYLARK CRESCENT RESERVE | 209m | North |
| 93555 | Parking Area | Parking Area | 283m | South |
| 93114 | Primary School | JAMES ERSKINE PUBLIC SCHOOL | 299m | South |
| 93461 | Community Facility | ERSKINE PARK COMMUNITY CENTRE | 305m | South East |
| 92668 | Park | ANDREW THOMPSON PARK | 374m | South West |
| 92662 | Park | PEPPERTREE RESERVE | 391m | South East |
| 92663 | Sports Field | Sports Field | 414m | South East |
| 92639 | Place Of Worship | ANGLICAN CHURCH | 419m | North West |
| 92637 | Park | Park | 430m | East |
| 93438 | Park | Park | 440m | South West |
| 92638 | Park | Park | 522m | North |
| 92665 | Sports Field | Sports Field | 526m | South East |
| 93439 | Park | Park | 527m | North East |
| 93160 | High School | ERSKINE PARK HIGH SCHOOL | 545m | South |
| 93554 | Parking Area | Parking Area | 607m | South |
| 92640 | Park | Park | 616m | South West |
| 92661 | Park | Park | 641m | South East |
| 92740 | Park | Park | 649m | West |
| 93436 | Park | SPICA PLACE RESERVE | 653m | South |
| 93663 | Suburb | ERSKINE PARK | 678m | South |
| 93204 | Park | ARUNDEL PARK DRIVE RESERVE | 700m | West |
| 93437 | Park | Park | 711m | South |
| 93435 | Park | Park | 737m | South East |
| 93145 | Primary School | CLAIRGATE PUBLIC SCHOOL | 749m | North West |
| 93443 | Park | Park | 764m | North |
| 93444 | Park | KESTREL CRESCENT RESERVE | 778m | North East |
| 92632 | Park | Park | 788m | North |
| 93206 | Park | DENVER ROAD RESERVE | 835m | North |

| Map Id | Feature Type | Label | Distance | Direction |
|--------|--------------|-------------------------|----------|------------|
| 93434 | Park | Park | 879m | South East |
| 92636 | Park | Park | 894m | North East |
| 93710 | Urban Place | HEWITT | 898m | North West |
| 93246 | Parking Area | Parking Area | 906m | South West |
| 93173 | Park | CHAMELEON DRIVE RESERVE | 922m | South West |
| 93698 | Park | Park | 924m | North |
| 92628 | Sports Court | NETBALL COURTS | 942m | South West |
| 92648 | Park | Park | 971m | South West |

Topographic Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Topographic Features

27a Phoenix Crescent, Erskine Park, NSW 2759

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type | Status | Name | Feature Currency | Distance | Direction |
|--------|-----------|-------------|-------------------------|------------------|----------|------------|
| 15697 | Water | Operational | ERSKINE PARK RESERVOIRS | 13/07/2018 | 502m | South West |
| 15691 | Water | Operational | | 13/07/2018 | 660m | South West |

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type | Status | Name | Feature Currency | Distance | Direction |
|--------|-----------------|---|------|------------------|----------|------------|
| 7730 | Tank-RuralWater | Feature on Previous LPI Tank Point Supply | | 01/01/2009 | 675m | South West |

Tanks Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

| Map Id | Easement Class | Easement Type | Easement Width | Distance | Direction |
|-----------|----------------|---------------|----------------|----------|------------|
| 120107751 | Primary | Undefined | | 836m | South West |

Easements Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Topographic Features

27a Phoenix Crescent, Erskine Park, NSW 2759

State Forest

What State Forest exist within the dataset buffer?

| State Forest Number | State Forest Name | Distance | Direction |
|---------------------|----------------------|----------|-----------|
| N/A | No records in buffer | | |

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

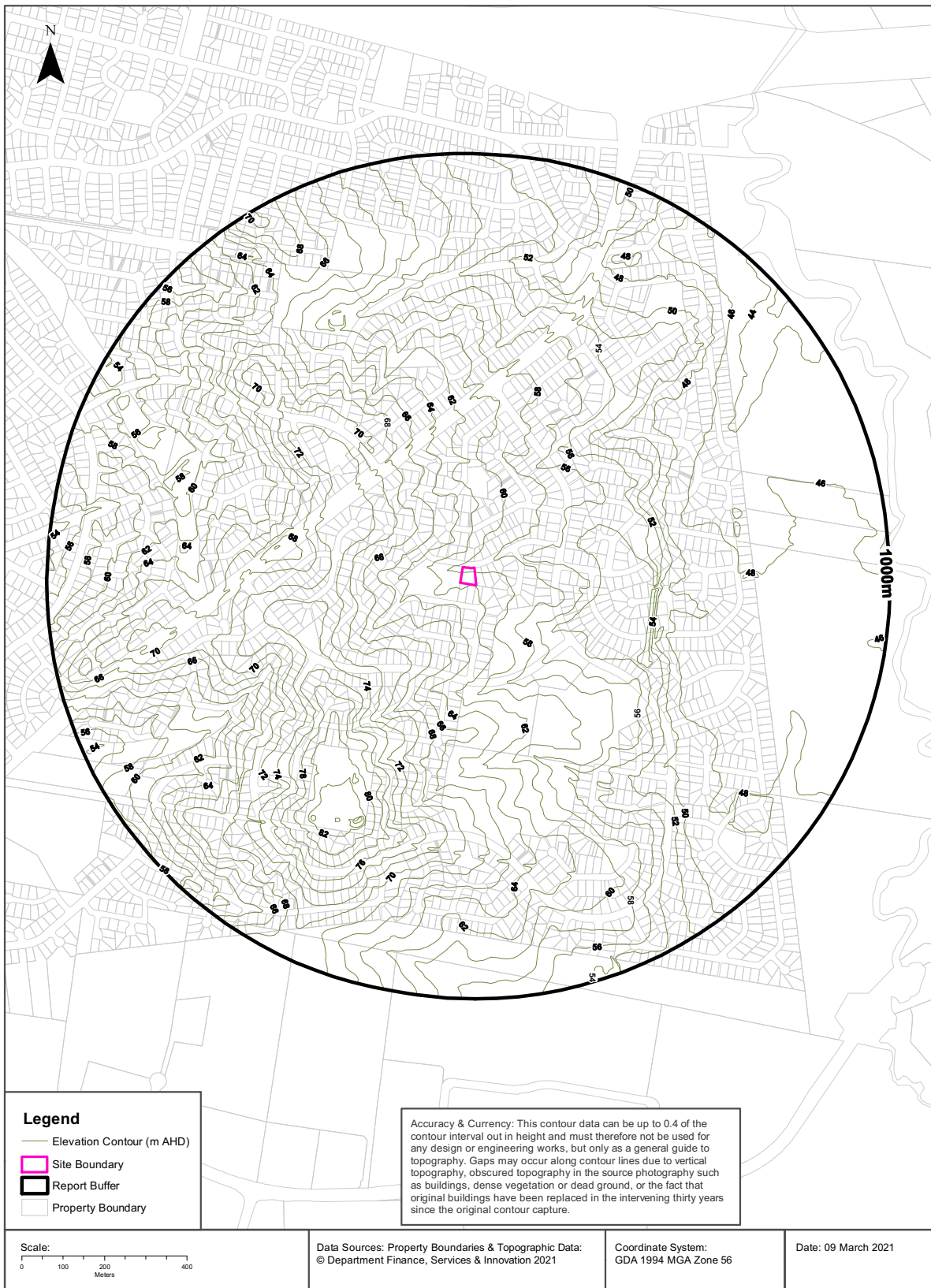
National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

| Reserve Number | Reserve Type | Reserve Name | Gazetted Date | Distance | Direction |
|----------------|----------------------|--------------|---------------|----------|-----------|
| N/A | No records in buffer | | | | |

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Elevation Contours (m AHD)
27a Phoenix Crescent, Erskine Park, NSW 2759



Hydrogeology & Groundwater

27a Phoenix Crescent, Erskine Park, NSW 2759

Hydrogeology

Description of aquifers on-site:

| Description |
|--|
| Porous, extensive aquifers of low to moderate productivity |

Description of aquifers within the dataset buffer:

| Description |
|--|
| Porous, extensive aquifers of low to moderate productivity |

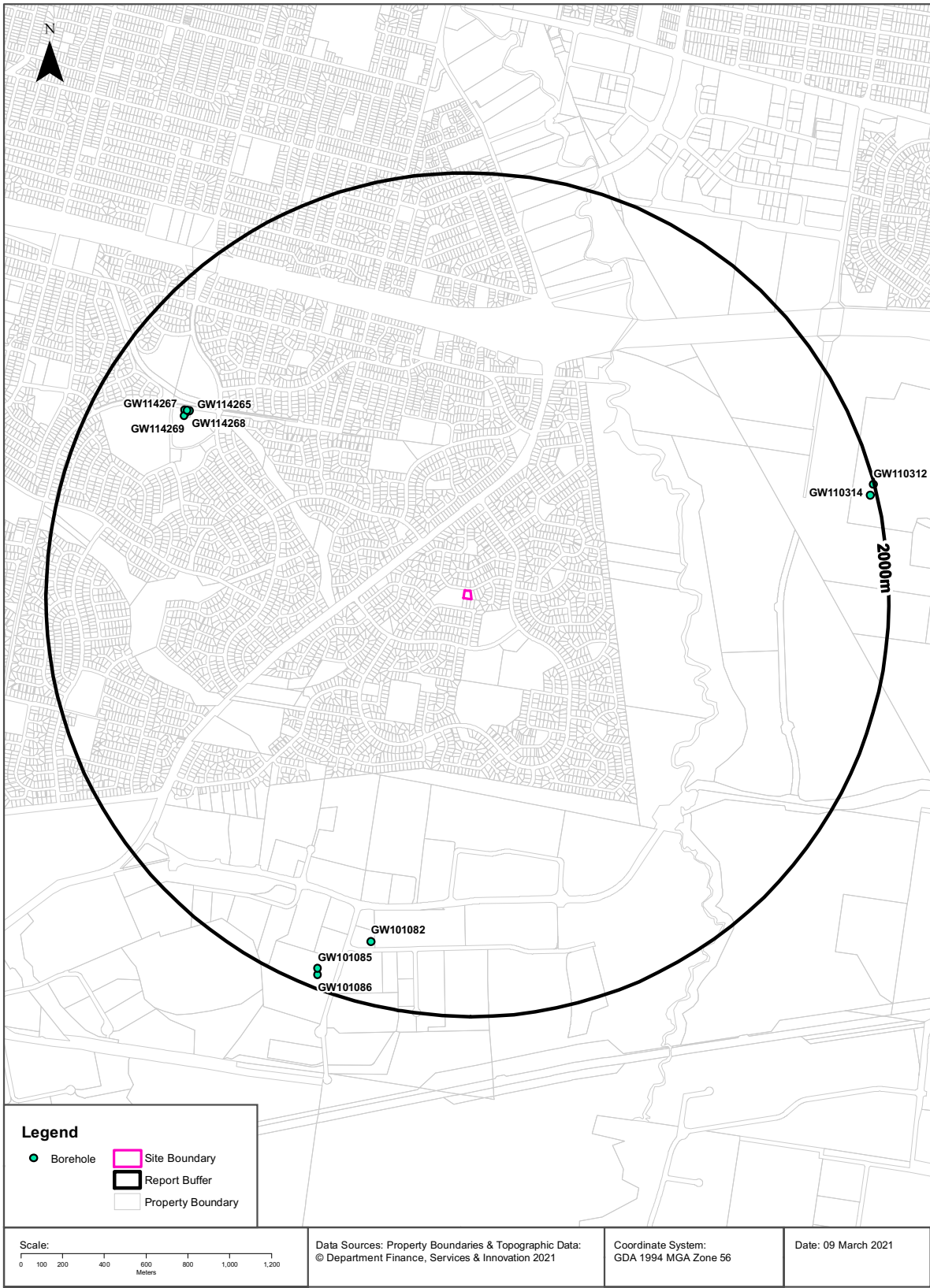
Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

| Prohibition Area No. | Prohibition | Distance | Direction |
|----------------------|----------------------|----------|-----------|
| N/A | No records in buffer | | |

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries



Hydrogeology & Groundwater

27a Phoenix Crescent, Erskine Park, NSW 2759

Groundwater Boreholes

Boreholes within the dataset buffer:

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m bgl) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|-------------|-----------|------------|--------------------|------------------|------|---------------|-----------------|-------------------|-----------------|-------------|-------------|------------|-------|------------|
| GW114 265 | 10BL603 923 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/06/2010 | 13.00 | 13.00 | | | | | 1571m | North West |
| GW114 269 | 10BL603 923 | Bore | Private | Monitoring Bore | Monitoring Bore | | 01/06/2010 | 10.00 | 10.00 | | | | | 1581m | North West |
| GW114 268 | 10BL603 923 | Bore | Private | Monitoring Bore | Monitoring Bore | | 02/06/2010 | 12.00 | 12.00 | | | | | 1582m | North West |
| GW114 266 | 10BL603 923 | Bore | Private | Monitoring Bore | Monitoring Bore | | 02/06/2010 | 13.00 | 13.00 | | | | | 1583m | North West |
| GW114 267 | 10BL603 923 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/06/2010 | 12.00 | 12.00 | | | | | 1595m | North West |
| GW101 082 | 10BL157 654 | Bore | | Monitoring Bore | Test Bore | | 27/05/1996 | 40.30 | 40.30 | | 12.43 | | | 1706m | South |
| GW101 085 | 10BL157 654 | Bore | | Monitoring Bore | Test Bore | | 30/05/1996 | 99.30 | 99.30 | | | | | 1908m | South |
| GW101 086 | 10BL157 654 | Bore | | Monitoring Bore | Test Bore | | 29/05/1996 | 69.70 | 69.70 | | | | | 1936m | South |
| GW110 314 | 10BL602 119 | Well | Private | Monitoring Bore | Monitoring Bore | | 08/07/2009 | 151.00 | 151.00 | | 40.30 | 0.100 | | 1970m | East |
| GW110 312 | 10BL602 119 | Well | Private | Monitoring Bore | Monitoring Bore | | 08/07/2009 | 100.00 | 100.00 | | 39.80 | 0.200 | | 1996m | East |

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

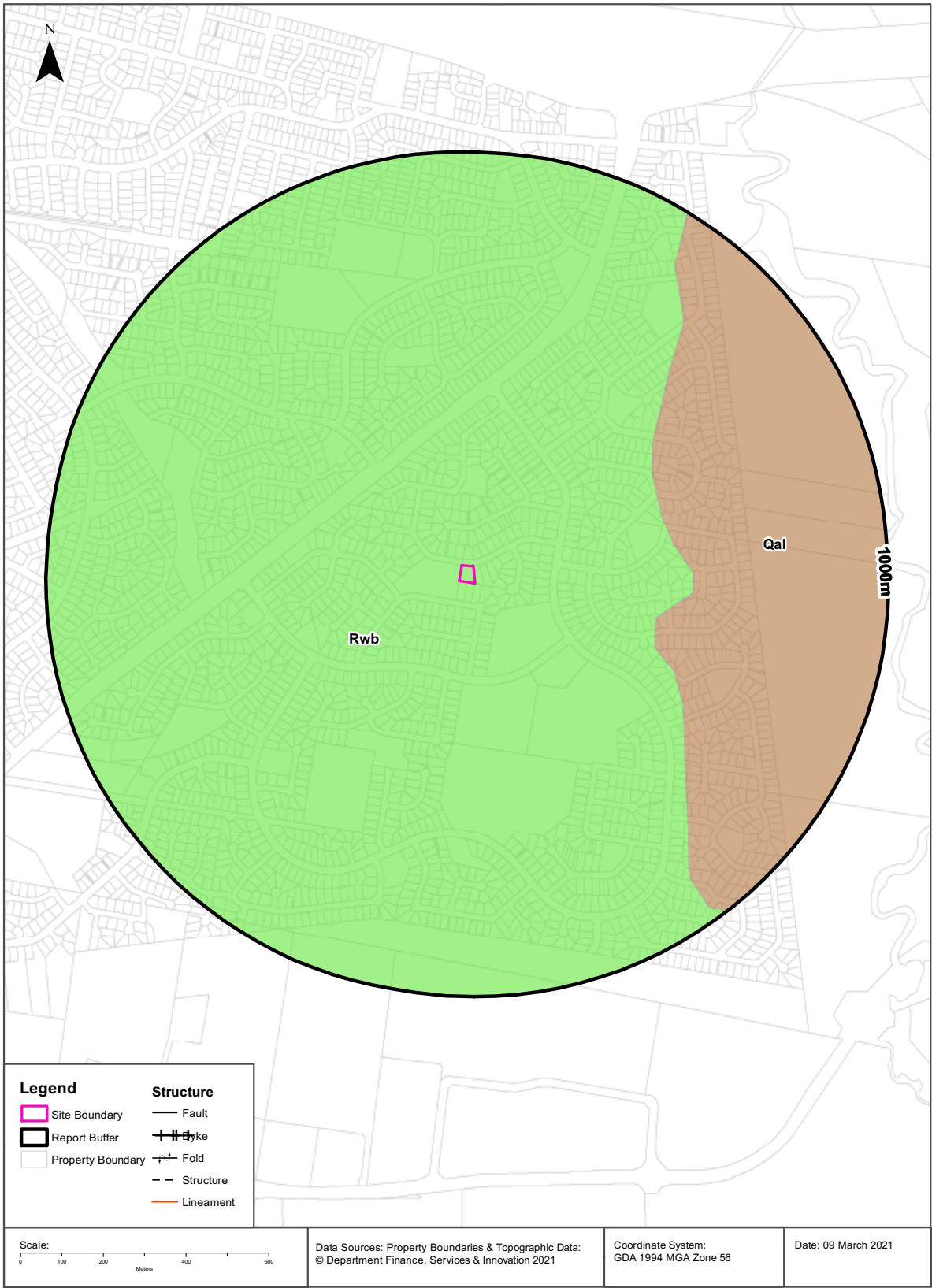
27a Phoenix Crescent, Erskine Park, NSW 2759

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|-----------|
| GW110314 | 0.00m-3.00m SHALE FILL 3.00m-8.00m WEATHERED SHALE, LIGHT BROWN 8.00m-96.00m SHALE, LIGHT GREY 96.00m-151.00m SHALE, DARK GREY | 1970m | East |
| GW110312 | 0.00m-3.00m SHALE, FILL 3.00m-8.00m SHALE WEATHERED, LIGHT BROWN 8.00m-96.00m SHALE, LIGHT GREY 96.00m-100.00m SHALE, DARK GREY | 1996m | East |

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



Geology

27a Phoenix Crescent, Erskine Park, NSW 2759

Geological Units

What are the Geological Units onsite?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|---|-----------------|-------------------------------------|-----------|-----------------|----------|-----------|-----------|
| Rwb | Shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff | Bringelly Shale | Wianamatta Group (undifferentiated) | | Middle Triassic | | Penrith | 1:100,000 |

What are the Geological Units within the dataset buffer?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|---|-----------------|-------------------------------------|-----------|-----------------|----------|-----------|-----------|
| Qal | Fine-grained sand, silt and clay | | | | Quaternary | | Penrith | 1:100,000 |
| Rwb | Shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff | Bringelly Shale | Wianamatta Group (undifferentiated) | | Middle Triassic | | Penrith | 1:100,000 |

Geological Structures

What are the Geological Structures onsite?

| Feature | Name | Description | Map Sheet | Dataset |
|-------------|------|-------------|-----------|-----------|
| No features | | | | 1:100,000 |

What are the Geological Structures within the dataset buffer?

| Feature | Name | Description | Map Sheet | Dataset |
|-------------|------|-------------|-----------|-----------|
| No features | | | | 1:100,000 |

Geological Data Source : NSW Department of Industry, Resources & Energy

© State of New South Wales through the NSW Department of Industry, Resources & Energy

Naturally Occurring Asbestos Potential

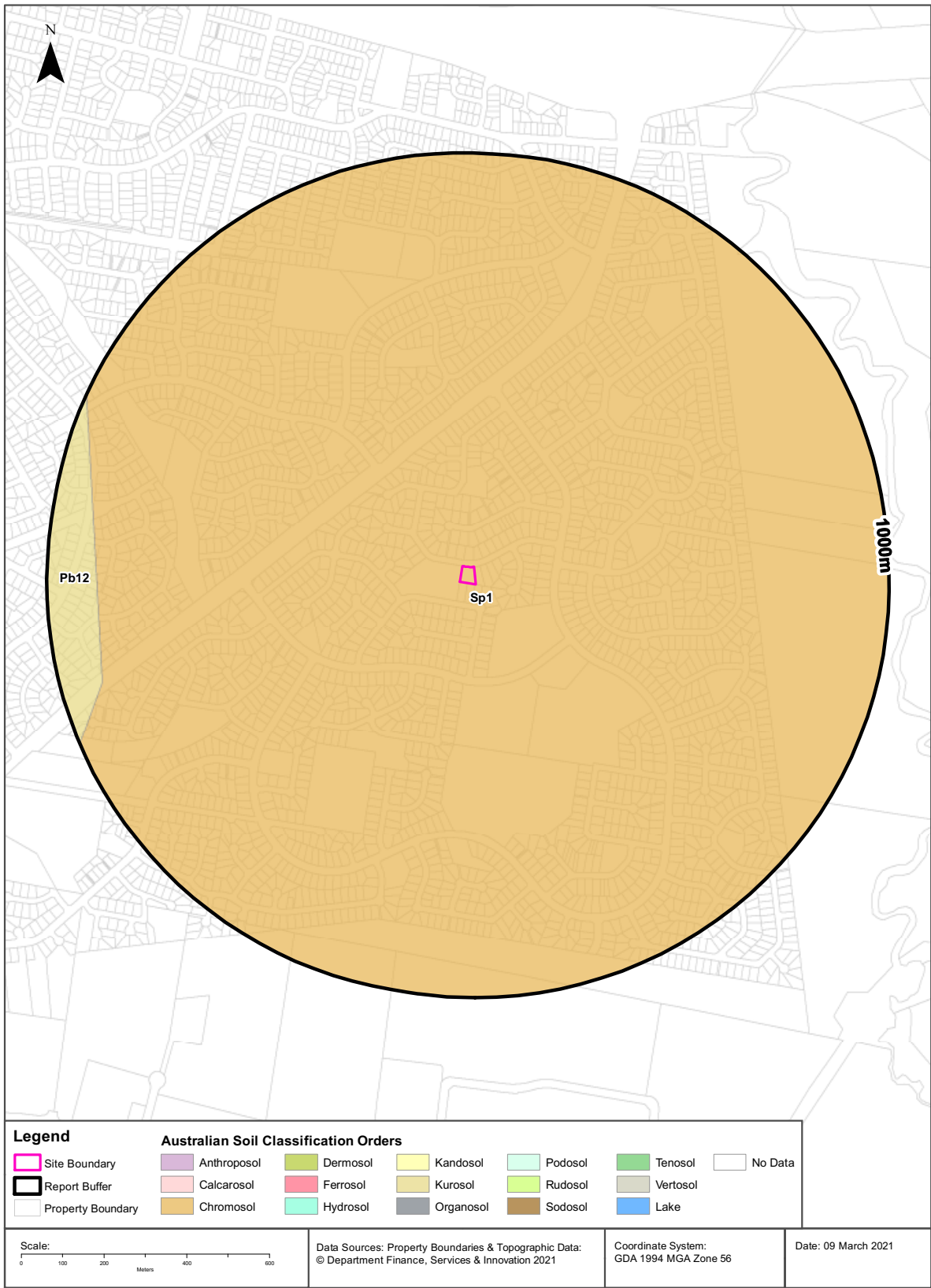
27a Phoenix Crescent, Erskine Park, NSW 2759

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

| Potential | Sym | Strat Name | Group | Formation | Scale | Min Age | Max Age | Rock Type | Dom Lith | Description | Dist | Dir |
|----------------------|-----|------------|-------|-----------|-------|---------|---------|-----------|----------|-------------|------|-----|
| No records in buffer | | | | | | | | | | | | |

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



Soils

27a Phoenix Crescent, Erskine Park, NSW 2759

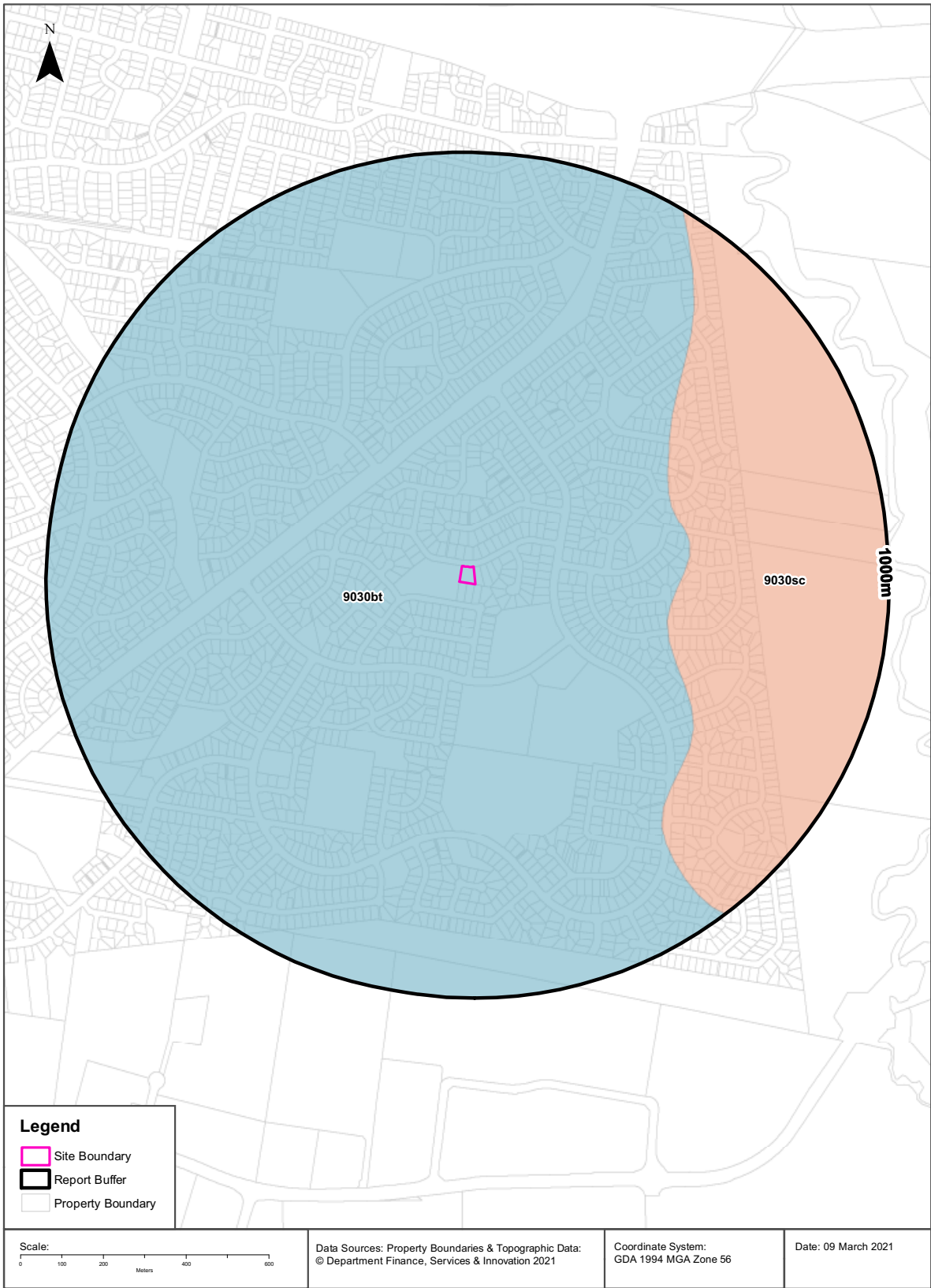
Atlas of Australian Soils

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

| Map Unit Code | Soil Order | Map Unit Description | Distance |
|---------------|------------|---|----------|
| Sp1 | Chromosol | Gently undulating plain usually with a surface scatter of ironstone gravel: chief soils are hard acidic yellow soils (Dy2.61) on flat-topped ridges and higher situations generally and hard acidic yellow mottled soils (Dy3.41) or (Dy3.81) in lower-lying situations. They all commonly contain ironstone gravel through the profile. Associated are (Dy5.41) or (Dy5.81) soils, containing ironstone gravels; and shallow (Gn2.1) gravelly soils also with indurated materials below the solum. Iron-cemented and/or silica-cemented strata have been recorded in many areas below the soils. As mapped, areas of units X9, Pb12, and Tb35 may be included. | 0m |
| Pb12 | Kurosol | Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout. | 877m |

Atlas of Australian Soils Data Source: CSIRO

Creative Commons 4.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/4.0/au/deed.en>



Soils

27a Phoenix Crescent, Erskine Park, NSW 2759

Soil Landscapes of Central and Eastern NSW

What are the on-site Soil Landscapes?

| Soil Code | Name |
|------------------------|-----------|
| 9030bt | Blacktown |

What are the Soil Landscapes within the dataset buffer?

| Soil Code | Name |
|------------------------|-------------|
| 9030bt | Blacktown |
| 9030sc | South Creek |

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment
Creative Commons 4.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/4.0/au/deed.en>

Acid Sulfate Soils

27a Phoenix Crescent, Erskine Park, NSW 2759

Environmental Planning Instrument - Acid Sulfate Soils

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

| Soil Class | Description | EPI Name |
|------------|-------------|----------|
| N/A | | |

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

| Soil Class | Description | EPI Name | Distance | Direction |
|------------|-------------|----------|----------|-----------|
| N/A | | | | |

NSW Crown Copyright - Planning and Environment
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>



Acid Sulfate Soils

27a Phoenix Crescent, Erskine Park, NSW 2759

Atlas of Australian Acid Sulfate Soils

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

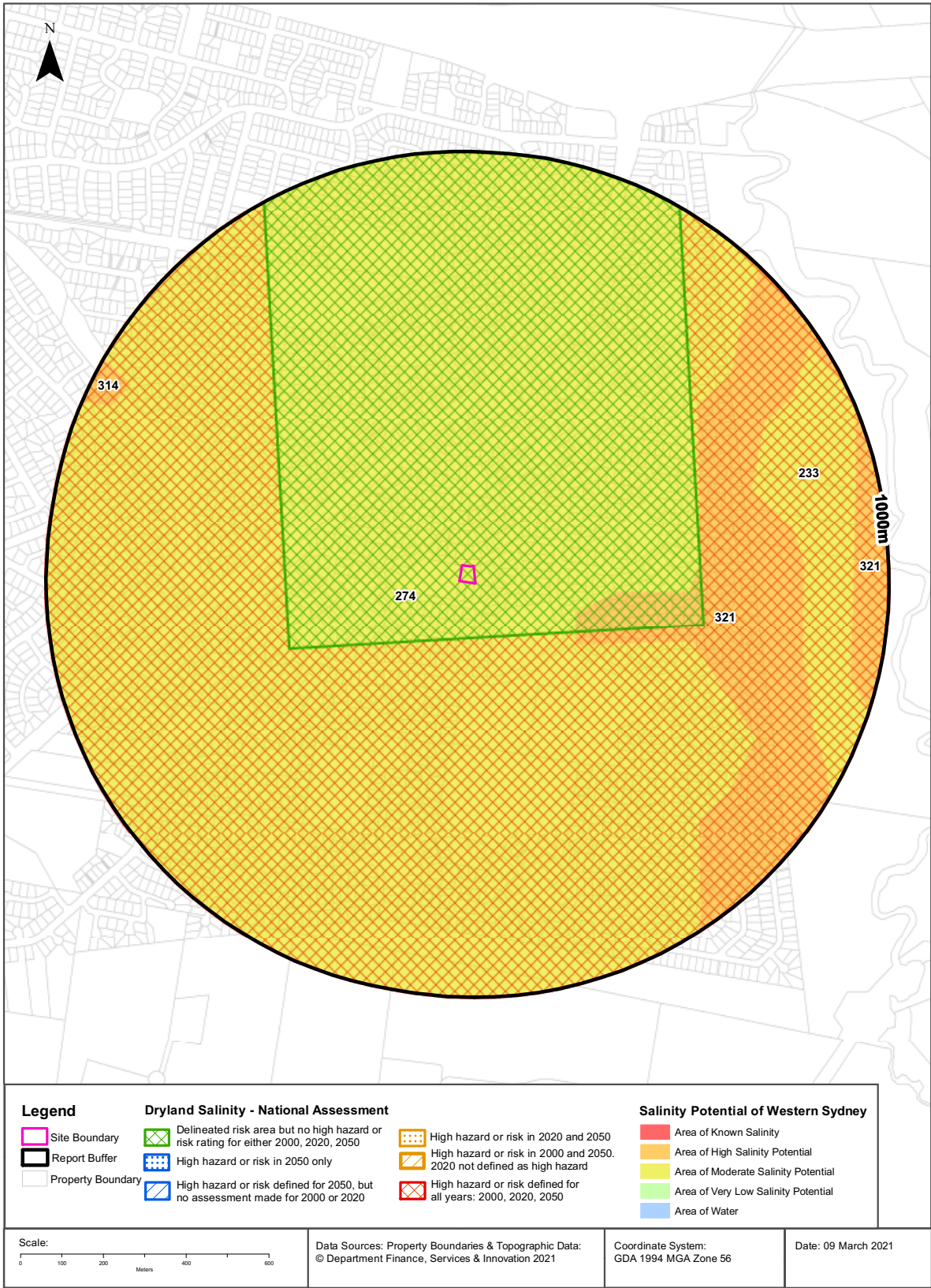
| Class | Description | Distance |
|-------|---|----------|
| C | Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas. | 0m |

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Dryland Salinity

27a Phoenix Crescent, Erskine Park, NSW 2759



Dryland Salinity

27a Phoenix Crescent, Erskine Park, NSW 2759

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

Yes

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

Yes

What Dryland Salinity assessments are given?

| Assessment 2000 | Assessment 2020 | Assessment 2050 | Distance | Direction |
|--|--|--|----------|------------|
| Delineated risk area but no high hazard or risk rating | Delineated risk area but no high hazard or risk rating | Delineated risk area but no high hazard or risk rating | 0m | Onsite |
| High hazard or risk | High hazard or risk | High hazard or risk | 130m | South West |

Dryland Salinity Data Source : National Land and Water Resources Audit

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

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

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

| Feature Id | Classification | Description | Distance | Direction |
|------------|----------------|-------------------------------------|----------|------------|
| 274 | MODERATE | Area of Moderate Salinity Potential | 0m | Onsite |
| 321 | HIGH | Area of High Salinity Potential | 252m | North East |
| 233 | MODERATE | Area of Moderate Salinity Potential | 698m | East |
| 314 | HIGH | Area of High Salinity Potential | 912m | North West |

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Mining

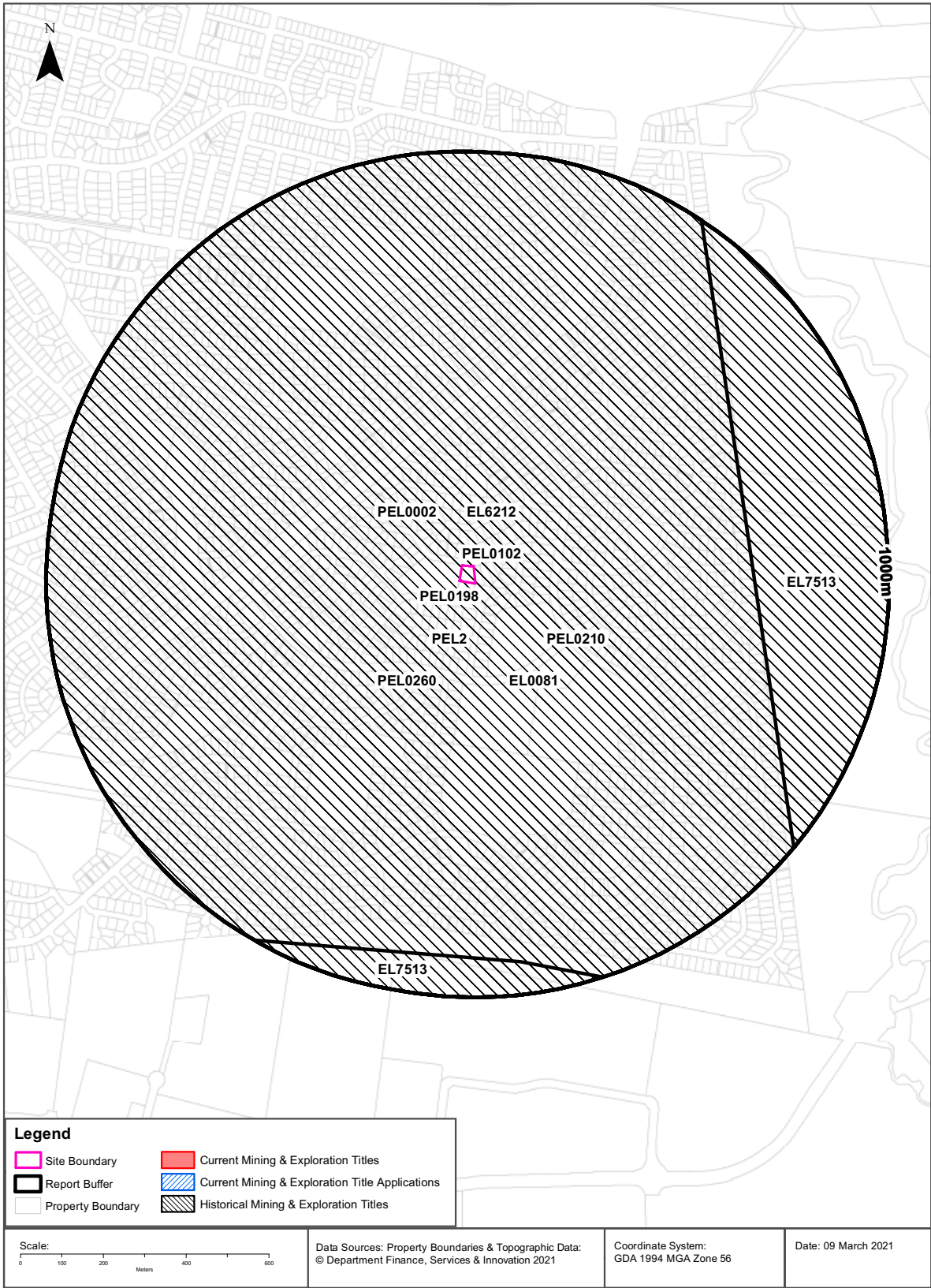
27a Phoenix Crescent, Erskine Park, NSW 2759

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

Mining Subsidence District Data Source: © Land and Property Information (2016)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



Mining

27a Phoenix Crescent, Erskine Park, NSW 2759

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

| Title Ref | Holder | Grant Date | Expiry Date | Last Renewed | Operation | Resource | Minerals | Dist (m) | Dir' |
|-----------|----------------------|------------|-------------|--------------|-----------|----------|----------|----------|------|
| N/A | No Records in Buffer | | | | | | | | |

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

| Application Ref | Applicant | Application Date | Operation | Resource | Minerals | Dist (m) | Dir' |
|-----------------|----------------------|------------------|-----------|----------|----------|----------|------|
| N/A | No Records in Buffer | | | | | | |

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

Mining

27a Phoenix Crescent, Erskine Park, NSW 2759

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

| Title Ref | Holder | Start Date | End Date | Resource | Minerals | Dist (m) | Dir' |
|-----------|--|-------------|-------------|-----------|------------|----------|--------|
| EL0081 | CONTINENTAL OIL CO OF AUSTRALIA LIMITED | 01 Feb 1967 | 01 Feb 1968 | MINERALS | | 0m | Onsite |
| EL6212 | HOT ROCK ENERGY PTY LTD, LONGREACH OIL LIMITED | 4 Mar 2004 | 3 Mar 2013 | MINERALS | Geothermal | 0m | Onsite |
| PEL0002 | AGL UPSTREAM INVESTMENTS PTY LIMITED | 29/03/1993 | 6/07/2015 | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0102 | AUSTRALIAN OIL AND GAS CORPORATION LTD | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0198 | JOHN STREVS (TERRIGAL) NL | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0210 | THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD | | | PETROLEUM | Petroleum | 0m | Onsite |
| PEL0260 | NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO. | 9/09/1981 | 8/03/1993 | PETROLEUM | Petroleum | 0m | Onsite |
| PEL2 | AGL UPSTREAM INVESTMENTS PTY LIMITED | | | MINERALS | | 0m | Onsite |
| EL7513 | GRADIENT ENERGY LIMITED | 7 Apr 2010 | 15 Apr 2011 | MINERALS | Geothermal | 666m | East |

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

State Environmental Planning Policy

27a Phoenix Crescent, Erskine Park, NSW 2759

State Significant Precincts

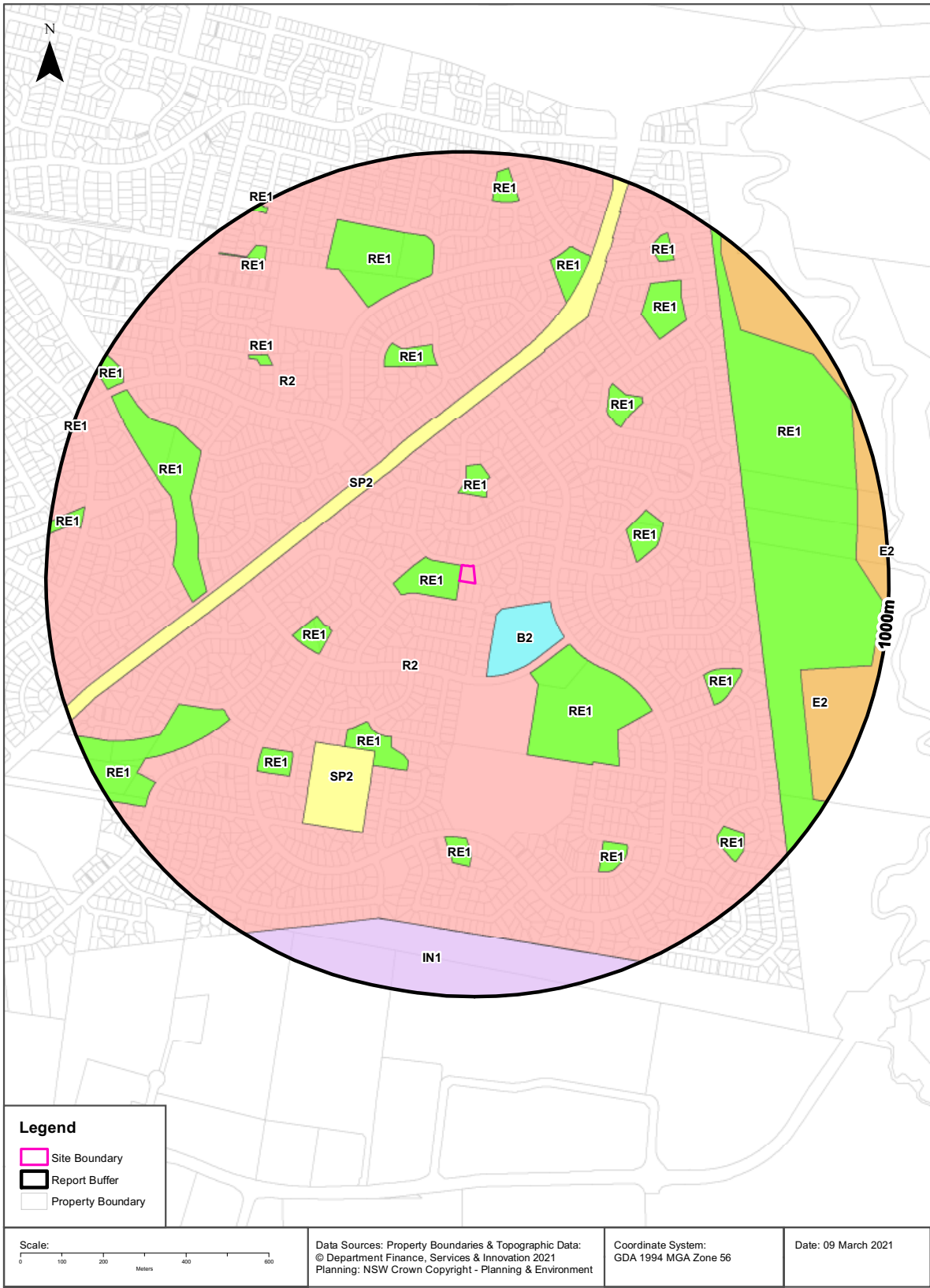
What SEPP State Significant Precincts exist within the dataset buffer?

| Map Id | Precinct | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|--------|----------------------|----------|----------------|----------------|---------------|-----------|----------|-----------|
| N/A | No Records in Buffer | | | | | | | |

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

EPI Planning Zones

27a Phoenix Crescent, Erskine Park, NSW 2759



Environmental Planning Instrument

27a Phoenix Crescent, Erskine Park, NSW 2759

Land Zoning

What EPI Land Zones exist within the dataset buffer?

| Zone | Description | Purpose | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|-------------------------|---------------------|---------------------------------------|----------------|----------------|---------------|---|----------|------------|
| R2 | Low Density Residential | | Penrith Local Environmental Plan 2010 | 22/06/2018 | 22/06/2018 | 18/12/2020 | Amendment No 19 | 0m | Onsite |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 22/06/2018 | 22/06/2018 | 18/12/2020 | Amendment No 19 | 0m | West |
| B2 | Local Centre | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 88m | South East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 169m | North |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 253m | South East |
| SP2 | Infrastructure | Classified Road | Penrith Local Environmental Plan 2010 | 11/06/2020 | 11/06/2020 | 18/12/2020 | State Environmental Planning Policy (Western Sydney Employment Area) Amendment 2020 | 286m | North West |
| R2 | Low Density Residential | | Penrith Local Environmental Plan 2010 | 22/06/2018 | 22/06/2018 | 18/12/2020 | Amendment No 19 | 318m | West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 331m | West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 379m | East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 406m | South West |
| SP2 | Infrastructure | Water Supply System | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 459m | South West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 486m | North East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 488m | North |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 578m | South West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 594m | South East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 611m | West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 22/06/2018 | 22/06/2018 | 18/12/2020 | Amendment No 19 | 616m | South |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 22/06/2018 | 22/06/2018 | 18/12/2020 | Amendment No 19 | 647m | South West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 664m | North |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 666m | North West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 22/09/2010 | 22/09/2010 | 18/12/2020 | | 668m | East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 676m | North |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 697m | South East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 709m | North East |

| Zone | Description | Purpose | EPI Name | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|---------|---|----------------|----------------|---------------|--|----------|------------|
| E2 | Environmental Conservation | | Penrith Local Environmental Plan 2010 | 22/09/2010 | 22/09/2010 | 18/12/2020 | | 814m | East |
| IN1 | General Industrial | | State Environmental Planning Policy (Western Sydney Employment Area) 2009 | 08/11/2013 | 08/11/2013 | 11/06/2020 | Blacktown Local Environmental Plan Amendment (Western Sydney Employment Area) 2013 | 836m | South West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 839m | South East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 862m | North East |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 878m | North West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 884m | North |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 922m | West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 930m | North West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 974m | North West |
| RE1 | Public Recreation | | Penrith Local Environmental Plan 2010 | 25/02/2015 | 25/02/2015 | 18/12/2020 | Amendment No 4 | 980m | West |
| E2 | Environmental Conservation | | Blacktown Local Environmental Plan 2015 | 26/05/2015 | 07/07/2015 | 18/12/2020 | | 997m | East |

Environmental Planning Instrument Data Source: NSW Crown Copyright - Planning & Environment
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

Heritage

27a Phoenix Crescent, Erskine Park, NSW 2759

Commonwealth Heritage List

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

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

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

National Heritage List

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

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

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

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

State Heritage Register - Curtilages

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

| Map Id | Name | Address | LGA | Listing Date | Listing No | Plan No | Distance | Direction |
|--------|----------------------|---------|-----|--------------|------------|---------|----------|-----------|
| N/A | No records in buffer | | | | | | | |

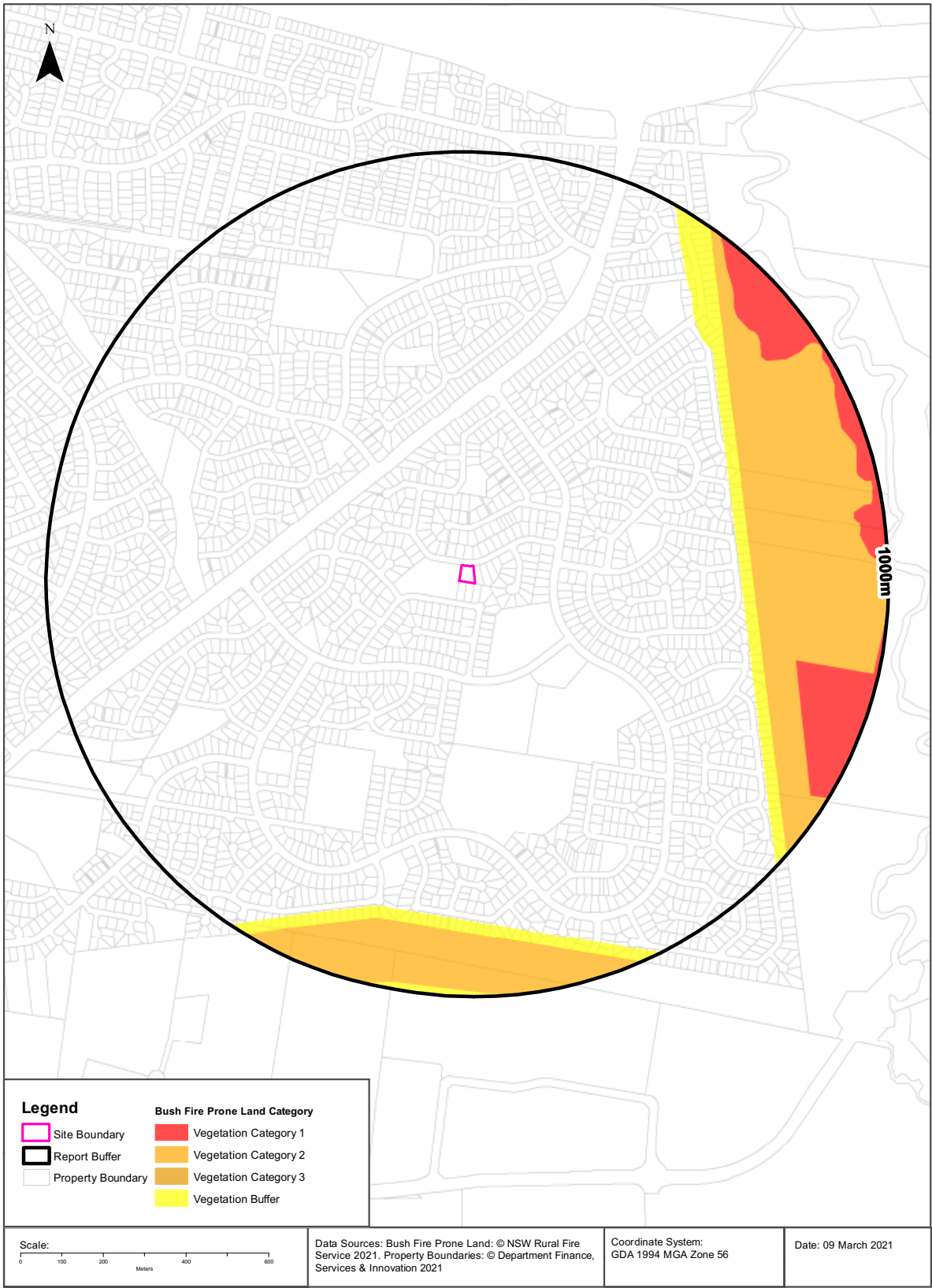
Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

Environmental Planning Instrument - Heritage

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

| Map Id | Name | Classification | Significance | EPI Name | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|----------------------|----------------|--------------|----------|----------------|----------------|---------------|----------|-----------|
| N/A | No records in buffer | | | | | | | | |

Heritage Data Source: NSW Crown Copyright - Planning & Environment
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>



Natural Hazards

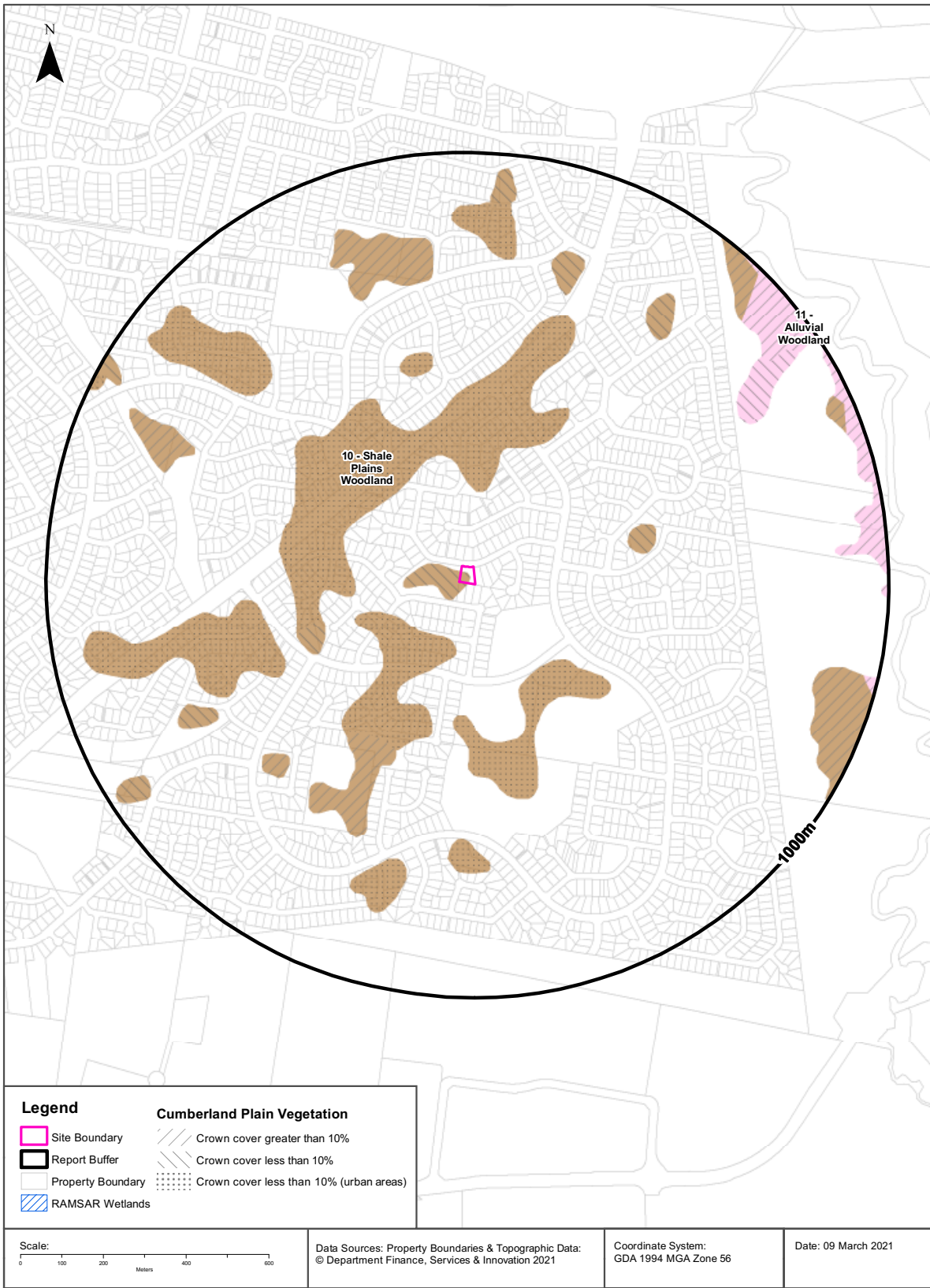
27a Phoenix Crescent, Erskine Park, NSW 2759

Bush Fire Prone Land

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

| Bush Fire Prone Land Category | Distance | Direction |
|-------------------------------|----------|------------|
| Vegetation Buffer | 637m | North West |
| Vegetation Category 2 | 667m | South West |
| Vegetation Category 1 | 797m | North East |

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



Ecological Constraints

27a Phoenix Crescent, Erskine Park, NSW 2759

Remnant Vegetation of the Cumberland Plain

What remnant vegetation of the Cumberland Plain exists within the dataset buffer?

| Description | Crown Cover | Distance | Direction |
|----------------------------|---|----------|------------|
| 10 - Shale Plains Woodland | Crown cover less than 10% | 0m | Onsite |
| 10 - Shale Plains Woodland | Crown cover less than 10% (urban areas) | 137m | South West |
| 10 - Shale Plains Woodland | Crown cover greater than 10% | 424m | South West |
| 11 - Alluvial Woodland | Crown cover less than 10% | 737m | North East |
| 11 - Alluvial Woodland | Crown cover greater than 10% | 862m | North East |

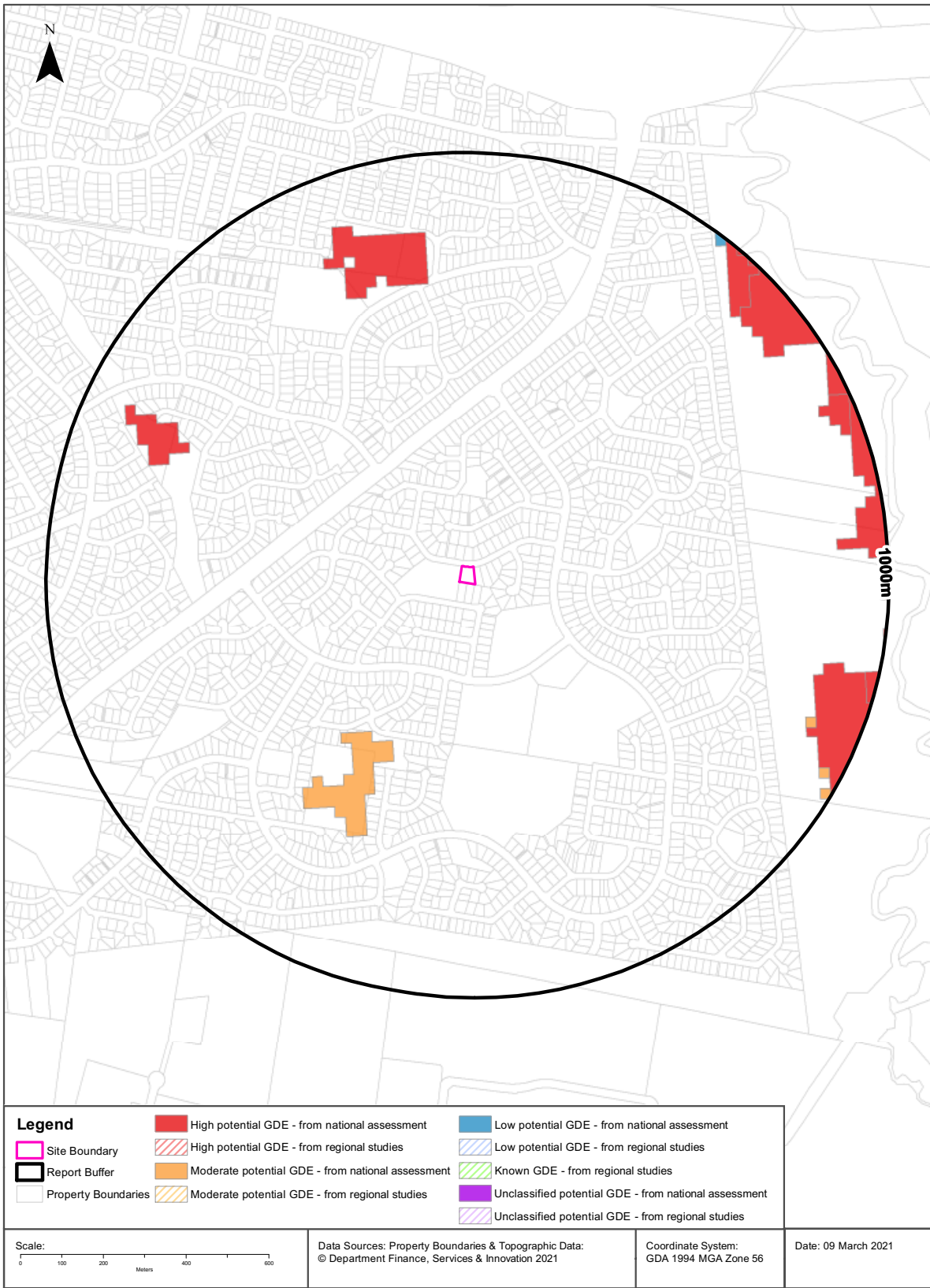
Remnant Vegetation of the Cumberland Plain : NSW Office of Environment and Heritage
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

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

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Environment



Ecological Constraints

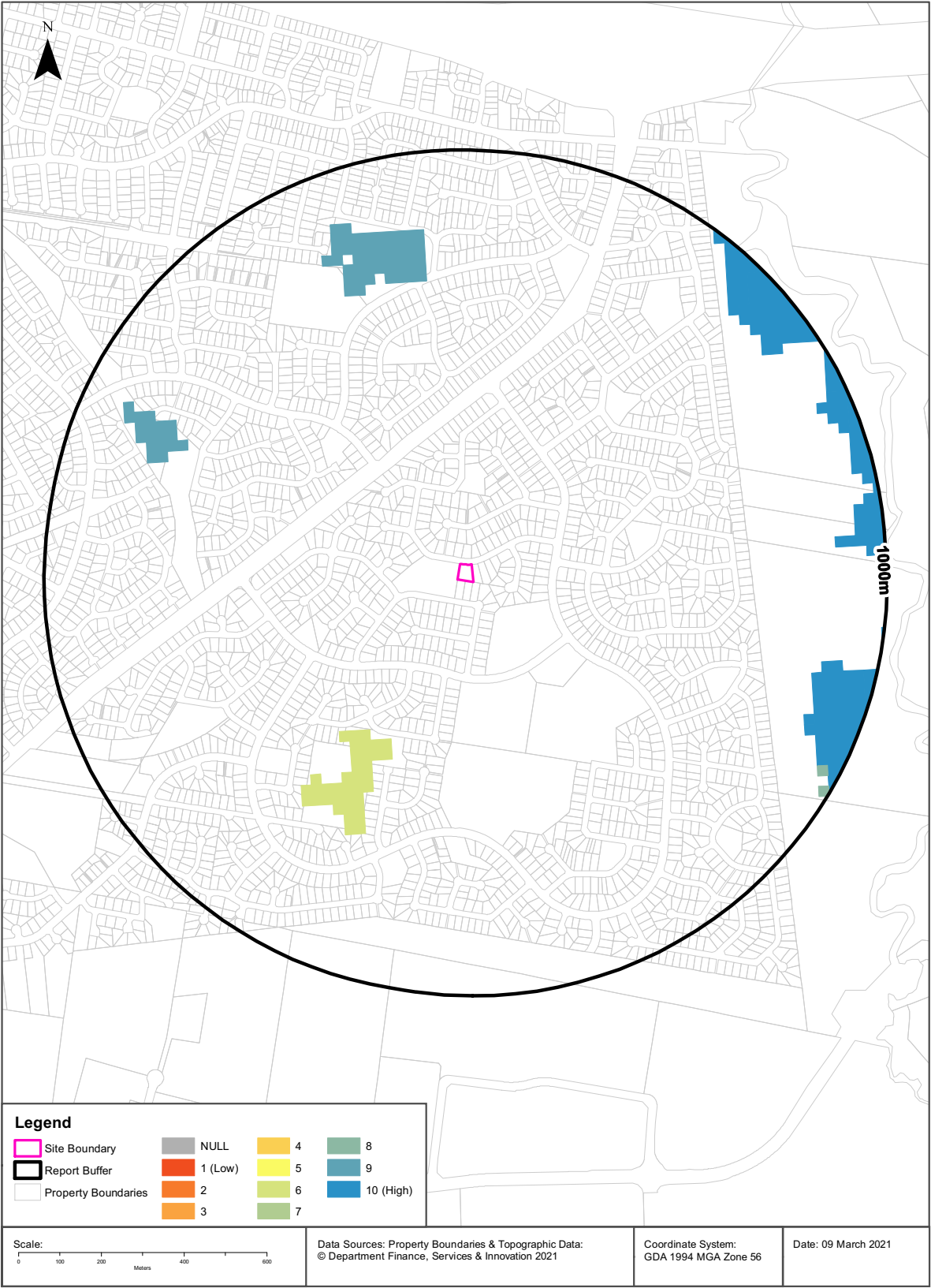
27a Phoenix Crescent, Erskine Park, NSW 2759

Groundwater Dependent Ecosystems Atlas

| Type | GDE Potential | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|-------------|---|---|----------------|----------------------------|----------|
| Terrestrial | Moderate potential GDE - from national assessment | Undulating to low hilly country, mainly on shale. | Vegetation | Consolidated sedimentary | 416m |
| Terrestrial | High potential GDE - from national assessment | Undulating to low hilly country, mainly on shale. | Vegetation | Consolidated sedimentary | 687m |
| Terrestrial | Low potential GDE - from national assessment | Undulating to low hilly country, mainly on shale. | Vegetation | Unconsolidated sedimentary | 971m |

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints - Inflow Dependent Ecosystems Likelihood
 27a Phoenix Crescent, Erskine Park, NSW 2759



Ecological Constraints

27a Phoenix Crescent, Erskine Park, NSW 2759

Inflow Dependent Ecosystems Likelihood

| Type | IDE Likelihood | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|-------------|----------------|---|----------------|----------------------------|----------|
| Terrestrial | 6 | Undulating to low hilly country, mainly on shale. | Vegetation | Consolidated sedimentary | 416m |
| Terrestrial | 9 | Undulating to low hilly country, mainly on shale. | Vegetation | Consolidated sedimentary | 687m |
| Terrestrial | 10 | Undulating to low hilly country, mainly on shale. | Vegetation | Unconsolidated sedimentary | 846m |
| Terrestrial | 8 | Undulating to low hilly country, mainly on shale. | Vegetation | Unconsolidated sedimentary | 941m |

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Ecological Constraints

27a Phoenix Crescent, Erskine Park, NSW 2759

NSW BioNet Atlas

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

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|----------|----------------------------------|---|-------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Amphibia | Litoria aurea | Green and Golden Bell Frog | Endangered | Not Sensitive | Vulnerable | |
| Animalia | Aves | Anseranas semipalmata | Magpie Goose | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Anthochaera phrygia | Regent Honeyeater | Critically Endangered | Not Sensitive | Critically Endangered | |
| Animalia | Aves | Apus pacificus | Fork-tailed Swift | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA;JAMBA |
| Animalia | Aves | Artamus cyanopterus cyanopterus | Dusky Woodswallow | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Burhinus grallarius | Bush Stone-curlew | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | Calidris acuminata | Sharp-tailed Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA;JAMBA |
| Animalia | Aves | Callocephalon fimbriatum | Gang-gang Cockatoo | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Calyptrorhynchus banksii samueli | Red-tailed Black-Cockatoo (inland subspecies) | Vulnerable | Category 2 | Not Listed | |
| Animalia | Aves | Calyptrorhynchus lathamii | Glossy Black-Cockatoo | Vulnerable | Category 2 | Not Listed | |
| Animalia | Aves | Certhionyx variegatus | Pied Honeyeater | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Chthonicola sagittata | Speckled Warbler | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Climacteris picumnus victoriae | Brown Treecreeper (eastern subspecies) | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Daphoenositta chrysoptera | Varied Sittella | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Ephippiorhynchus asiaticus | Black-necked Stork | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | Gallinago hardwickii | Latham's Snipe | Not Listed | Not Sensitive | Not Listed | ROKAMBA;JAMBA |
| Animalia | Aves | Glossopsitta pusilla | Little Lorikeet | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Haliaeetus leucogaster | White-bellied Sea-Eagle | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Hieraaetus morphnoides | Little Eagle | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Hirundapus caudacutus | White-throated Needletail | Not Listed | Not Sensitive | Vulnerable | ROKAMBA;CAMBA;JAMBA |
| Animalia | Aves | Ixobrychus flavicollis | Black Bittern | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Lathamus discolor | Swift Parrot | Endangered | Category 3 | Critically Endangered | |
| Animalia | Aves | Lophoictinia isura | Square-tailed Kite | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Melithreptus gularis gularis | Black-chinned Honeyeater (eastern subspecies) | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Ninox strenua | Powerful Owl | Vulnerable | Category 3 | Not Listed | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|------------|--------------------------------|---------------------------------|-----------------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Aves | Oxyura australis | Blue-billed Duck | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Petroica boodang | Scarlet Robin | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Petroica phoenicea | Flame Robin | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Pezoporus wallicus wallicus | Eastern Ground Parrot | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | Pluvialis squatarola | Grey Plover | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Polytelis swainsonii | Superb Parrot | Vulnerable | Category 3 | Vulnerable | |
| Animalia | Aves | Rostratula australis | Australian Painted Snipe | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | Stagonopleura guttata | Diamond Firetail | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Stictonetta naevosa | Freckled Duck | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Todiramphus chloris | Collared Kingfisher | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | Tringa nebularia | Common Greenshank | Not Listed | Not Sensitive | Not Listed | ROKAMBA;CAMBA; JAMBA |
| Animalia | Aves | Tyto novaehollandiae | Masked Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Gastropoda | Meridolum corneovirens | Cumberland Plain Land Snail | Endangered | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Dasyurus maculatus | Spotted-tailed Quoll | Vulnerable | Not Sensitive | Endangered | |
| Animalia | Mammalia | Falsistrellus tasmaniensis | Eastern False Pipistrelle | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Micronomus norfolkensis | Eastern Coastal Free-tailed Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Miniopterus australis | Little Bent-winged Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Miniopterus orianae oceanensis | Large Bent-winged Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Myotis macropus | Southern Myotis | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Phascogale carterii | Koala | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | Pteropus poliocephalus | Grey-headed Flying-fox | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | Saccolaimus flaviventris | Yellow-bellied Sheath-tail-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Scoteanax rueppellii | Greater Broad-nosed Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | Vespertilio macrotis | Eastern Cave Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Aspidites ramsayi | Woma | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | Caretta caretta | Loggerhead Turtle | Endangered | Not Sensitive | Endangered | |
| Animalia | Reptilia | Chelonia mydas | Green Turtle | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Reptilia | Tiliqua occipitalis | Western Blue-tongued Lizard | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Acacia pubescens | Downy Wattle | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | Allocasuarina glauca | | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | Callistemon linearifolius | Netted Bottle Brush | Vulnerable | Category 3 | Not Listed | |
| Plantae | Flora | Cynanchum elegans | White-flowered Wax Plant | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | Dillwynia tenuifolia | | Endangered Population, Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | Dillwynia tenuifolia | | Vulnerable | Not Sensitive | Not Listed | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|---------|-------|--|--------------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Plantae | Flora | <i>Eucalyptus leucoxylon</i> subsp. <i>pruinosa</i> | Yellow Gum | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Eucalyptus nicholii</i> | Narrow-leaved Black Peppermint | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Eucalyptus scoparia</i> | Wallangarra White Gum | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Grevillea juniperina</i> subsp. <i>juniperina</i> | Juniper-leaved Grevillea | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Grevillea parviflora</i> subsp. <i>parviflora</i> | Small-flower Grevillea | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Hibbertia puberula</i> | | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Isotoma fluviatilis</i> subsp. <i>fluviatilis</i> | | Not Listed | Not Sensitive | Extinct | |
| Plantae | Flora | <i>Macadamia integrifolia</i> | Macadamia Nut | Not Listed | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i> | Native Pear | Endangered Population | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Micromyrtus minutiflora</i> | | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Persoonia nutans</i> | Nodding Geebung | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | <i>Pilularia novae-hollandiae</i> | Austral Pillwort | Endangered | Category 3 | Not Listed | |
| Plantae | Flora | <i>Pimelea curviflora</i> var. <i>curviflora</i> | | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Pimelea spicata</i> | Spiked Rice-flower | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | <i>Pterostylis saxicola</i> | Sydney Plains Greenhood | Endangered | Category 2 | Endangered | |
| Plantae | Flora | <i>Pultenaea parviflora</i> | | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Senna acclinis</i> | Rainforest Cassia | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Syzygium paniculatum</i> | Magenta Lilly Pilly | Endangered | Not Sensitive | Vulnerable | |

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

| LC Code | Location Confidence |
|--------------------------------|---|
| Premise match | Georeferenced to the site location / premise or part of site |
| General area or suburb match | Georeferenced with the confidence of the general/approximate area |
| Road match | Georeferenced to the road or rail |
| Road intersection | Georeferenced to the road intersection |
| Feature is a buffered point | Feature is a buffered point |
| Land adjacent to geocoded site | Land adjacent to Georeferenced Site |
| Network of features | Georeferenced to a network of features |

USE OF REPORT - APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report (Terms). The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
 - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
 - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available or methodologies licensed to Lotsearch by third parties with whom Lotsearch has contractual arrangements (**Third Party Content Suppliers**); and
 - (ii) content which is derived from content described in paragraph (i);
 - (b) Neither Lotsearch nor Third Party Content Suppliers takes any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report including any contaminated land assessment or other assessment included as part of a Report;
 - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**) and accordingly neither Lotsearch nor Third Party Content Suppliers gives any warranty in relation to the accuracy or completeness of the Third Party Content incorporated into the report including any contaminated land assessment or other assessment included as part of a Report;
 - (d) Reports are generated at a point in time (as specified by the date/time stamp appearing on the Report) and accordingly the Report is based on the information available at that point in time and Lotsearch is not obliged to undertake any additional reporting to take into consideration any information that may become available between the point in time specified by the date/time stamp and the date on which the Report was provided by Lotsearch to the purchaser of the Report;
 - (e) Reports must be used or reproduced in their entirety and End User must not reproduce or make available to other persons only parts of the Report;
 - (f) Lotsearch has not undertaken any physical inspection of the property;
 - (g) neither Lotsearch nor Third Party Content Suppliers warrants that all land uses or features whether past or current are identified in the Report;
 - (h) the Report does not include any information relating to the actual state or condition of the Property;
 - (i) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of Land or Property for any particular purpose
 - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
 - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. The End User hereby to the maximum extent permitted by law:
 - (a) acknowledges that the Lotsearch (nor any of its officers, employees or agents), nor any

- of its Third Party Content Supplier have any liability to it under or in connection with the Report or these Terms;
- (b) waives any right it may have to claim against Third Party Content Supplier in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms; and
 - (c) releases each Third Party Content Supplier from any claim it may have otherwise had in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms.
5. The End User acknowledges that any Third Party Supplier shall be entitled to plead the benefits conferred on it under clause 4, despite not being a party to these terms.
 6. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
 7. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
 8. To the extent permitted by law and subject to paragraph 9, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these Terms other than as expressly set out in these Terms are excluded.
 9. Subject to paragraph 6, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
 10. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
 11. Subject to paragraph 9, neither Lotsearch nor the End User is liable to the other for:
 - (a) any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to the Report or these Terms; or
 - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,
 irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
 12. These Terms are subject to New South Wales law.



APPENDIX IV

COUNCIL RECORDS

Chris Chen

From: Karin Fuller <Karin.Fuller@penrith.city>
Sent: Monday, 15 March 2021 12:26 PM
To: GTX
Subject: Acknowledged consent for various properties from GETEX
Attachments: Consent for Park, Carpark & Netball Courts at Lot 1107 29 Chameleon Drive Erskine Park File No DA00-1459 20-06-2000.pdf

Good Afternoon

I refer to your open access application under the Government Information (Public Access) Act 2009 (GIPA), requesting access to information relating to various properties listed below:

11 Ashwick Circuit ST CLAIR – nothing found for property.
11a Canopus Close ERSKINE PARK – nothing found for property.
27a Phoenix Crescent ERSKINE PARK – nothing found
25-29 Chameleon Drive ERSKINE PARK – consent only found - attached
9a Dilga Crescent ERSKINE PARK – nothing found

On 15 March 2021, I determined to provide access to the requested information under Section 6 of the GIPA Act (Open Access). Copies of information, which I have determined to release, are attached.

I can be contacted on 47 328220 or email karin.fuller@penrith.city should you require further information on this matter.

Kind regards

Karin Fuller
Administration Officer

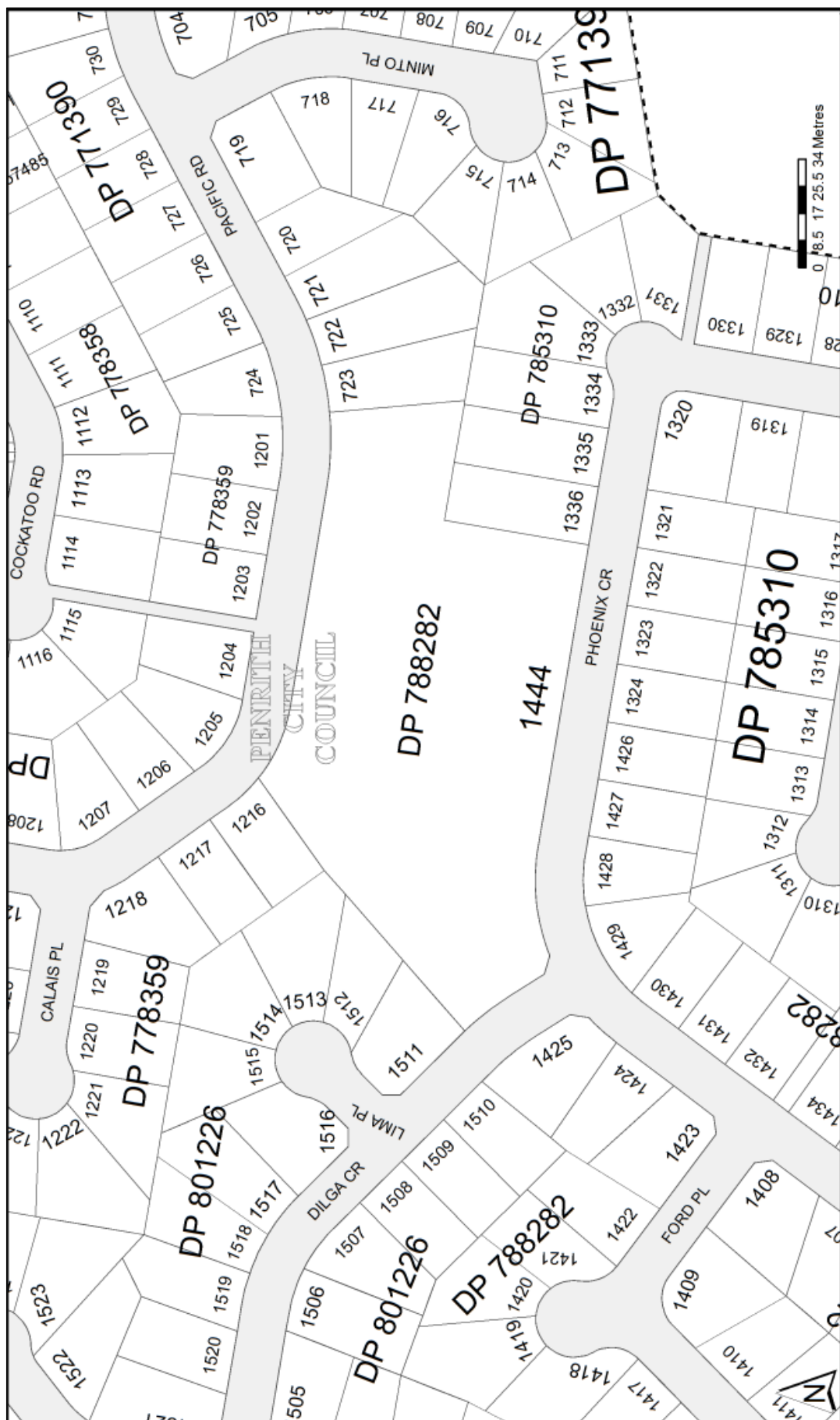
E Karin.Fuller@penrith.city
T +612 4732 8220 | F +612 4732 7958 | M
PO Box 60, PENRITH NSW 2751
www.visitpenrith.com.au
www.penrithcity.nsw.gov.au

PENRITH
CITY COUNCIL



APPENDIX V

DP PLAN



**Cadastral Records Enquiry Report : Lot 1444 DP 788282**


Ref : NOUSER

Locality : ERSKINE PARK

Parish : MELVILLE

LGA : PENRITH

County : CUMBERLAND

| | Status | Surv/Comp | Purpose |
|--|------------|-----------|-------------|
| DP1134907 Lot(s): 100  DP835556 | HISTORICAL | SURVEY | SUBDIVISION |

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

Report Generated 2:53:07 PM, 8 March, 2021
Copyright © Crown in right of New South Wales, 2017

Page 2 of 3

**Cadastral Records Enquiry Report : Lot 1444 DP 788282**

Ref : NOUSER

Locality : ERSKINE PARK

Parish : MELVILLE

LGA : PENRITH

County : CUMBERLAND

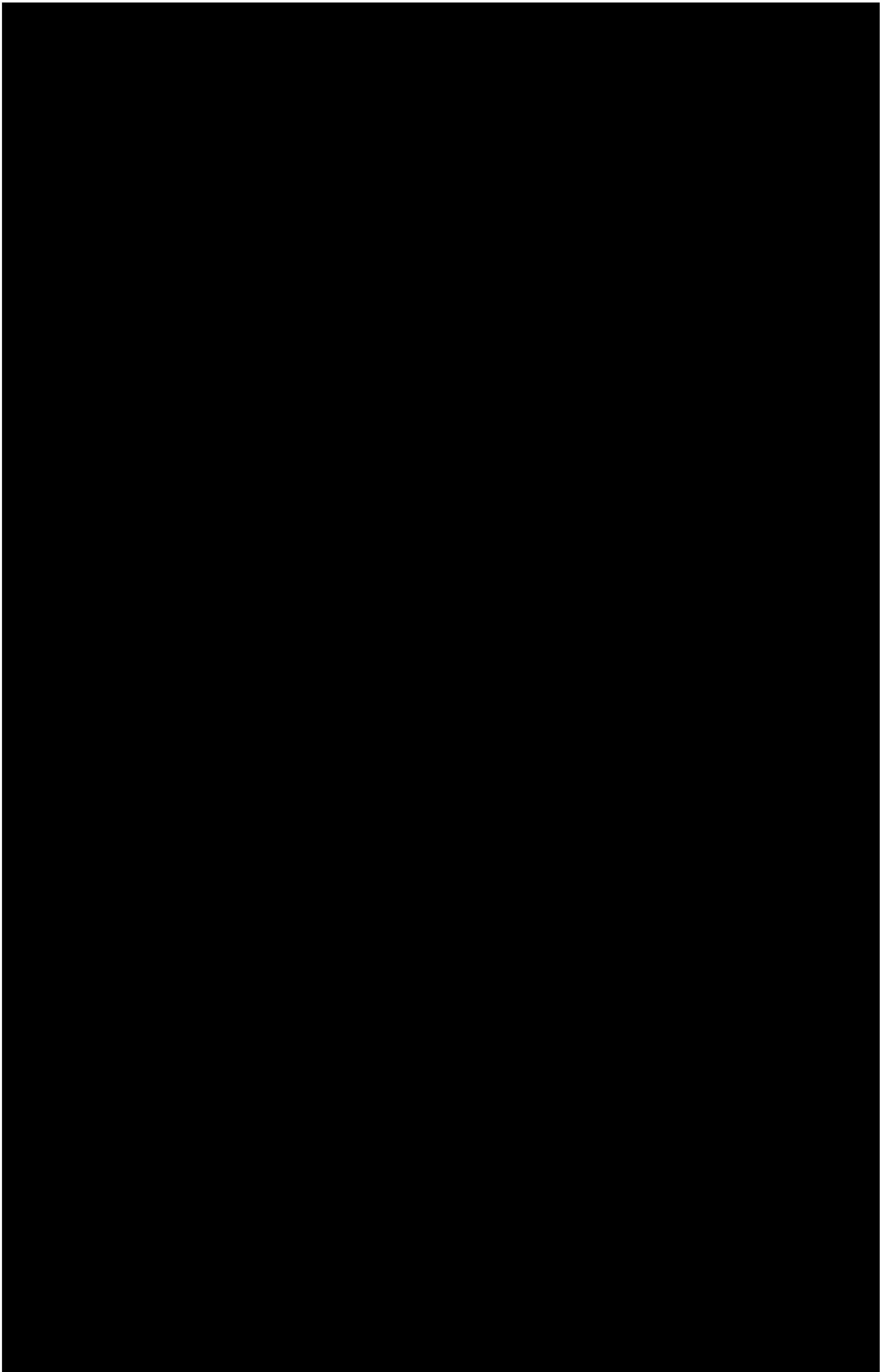
| Plan | Surv/Comp | Purpose |
|-----------|-------------|---------------|
| DP771390 | SURVEY | SUBDIVISION |
| DP778358 | SURVEY | SUBDIVISION |
| DP778359 | SURVEY | SUBDIVISION |
| DP785310 | SURVEY | SUBDIVISION |
| DP788282 | SURVEY | SUBDIVISION |
| DP801226 | SURVEY | SUBDIVISION |
| DP857485 | SURVEY | SUBDIVISION |
| DP859561 | SURVEY | SUBDIVISION |
| DP1134907 | COMPILATION | CONSOLIDATION |

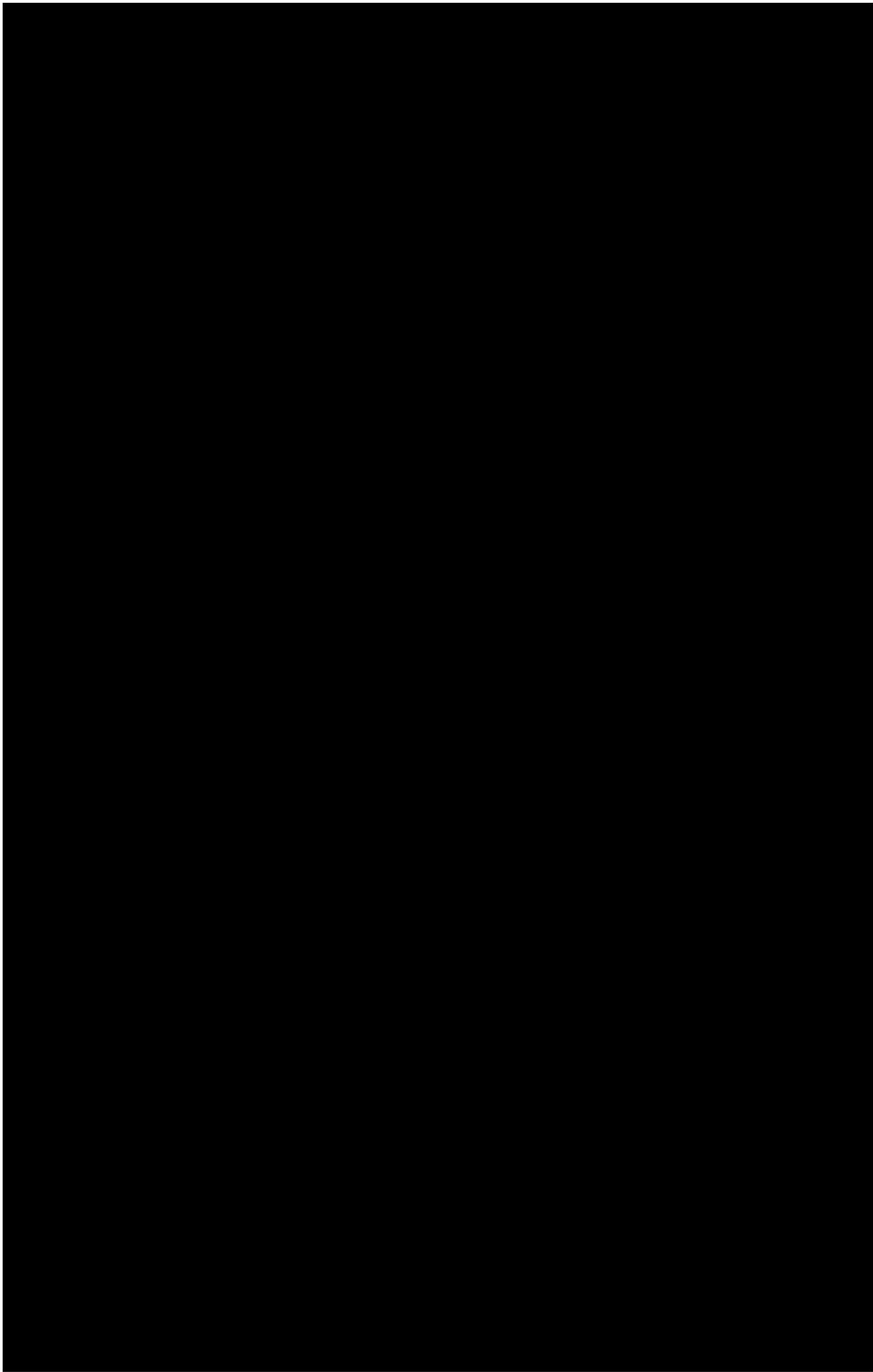
Caution: This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL**

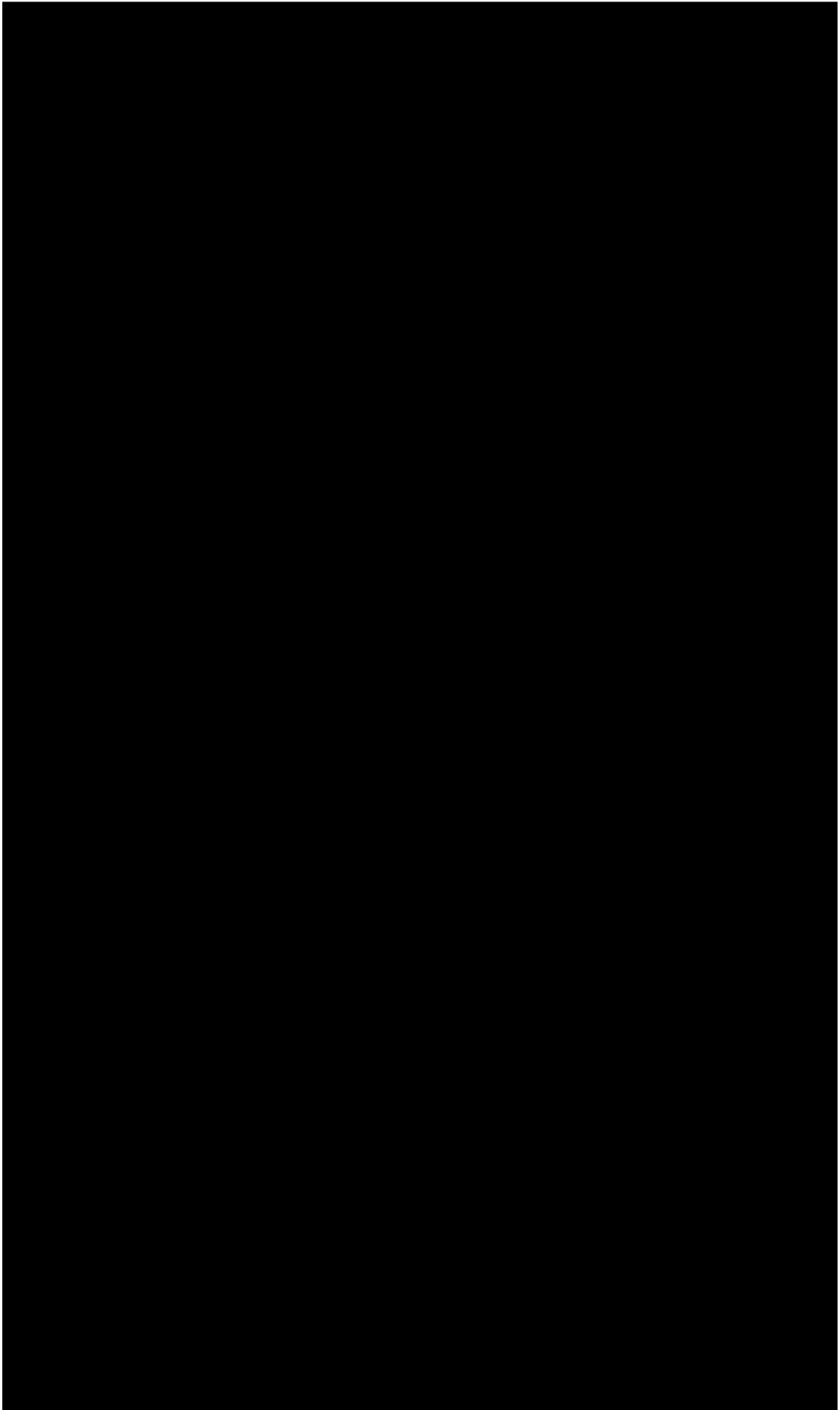
ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.

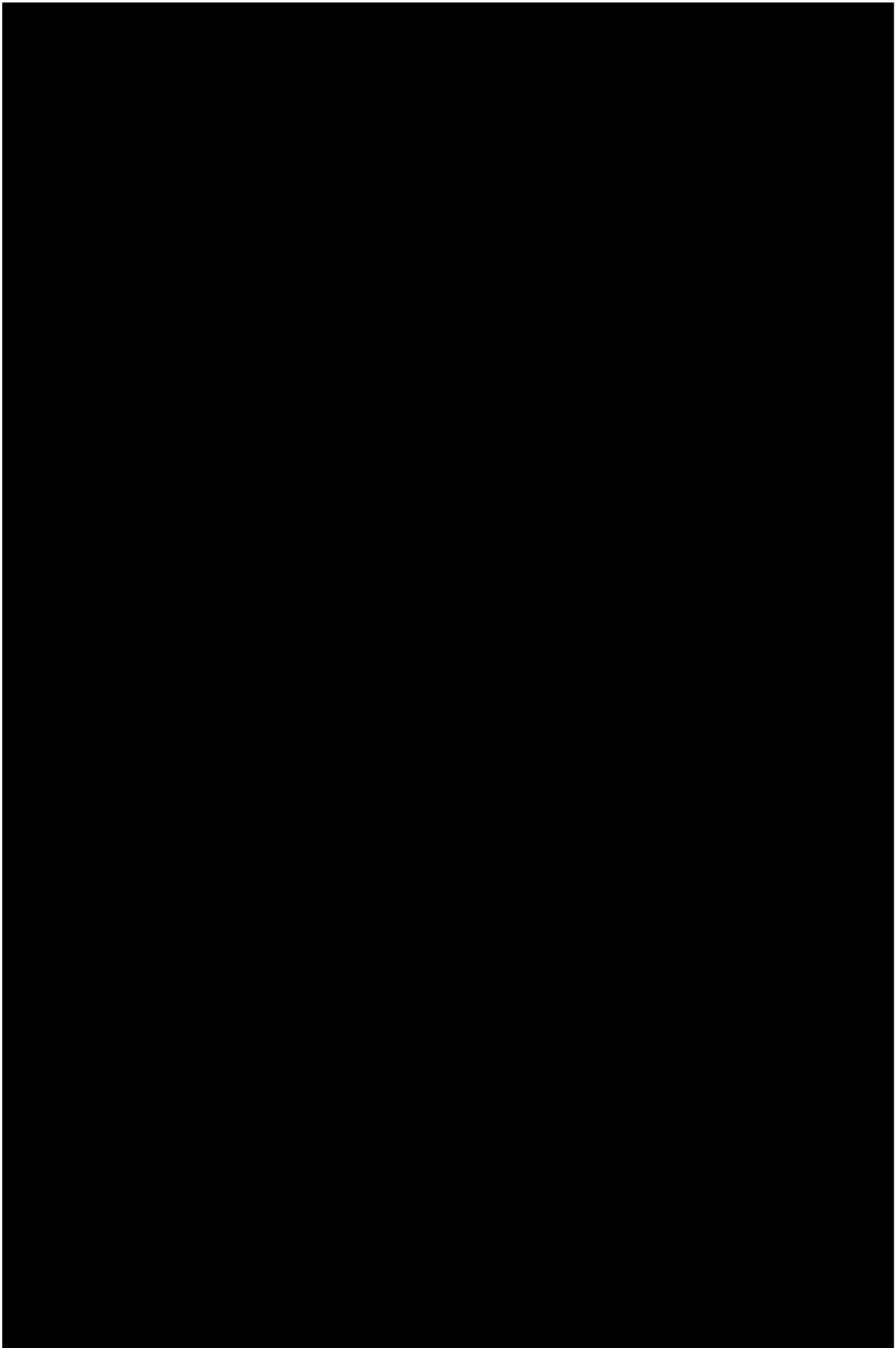
Report Generated 2:53:07 PM, 8 March, 2021
Copyright © Crown in right of New South Wales, 2017

Page 3 of 3







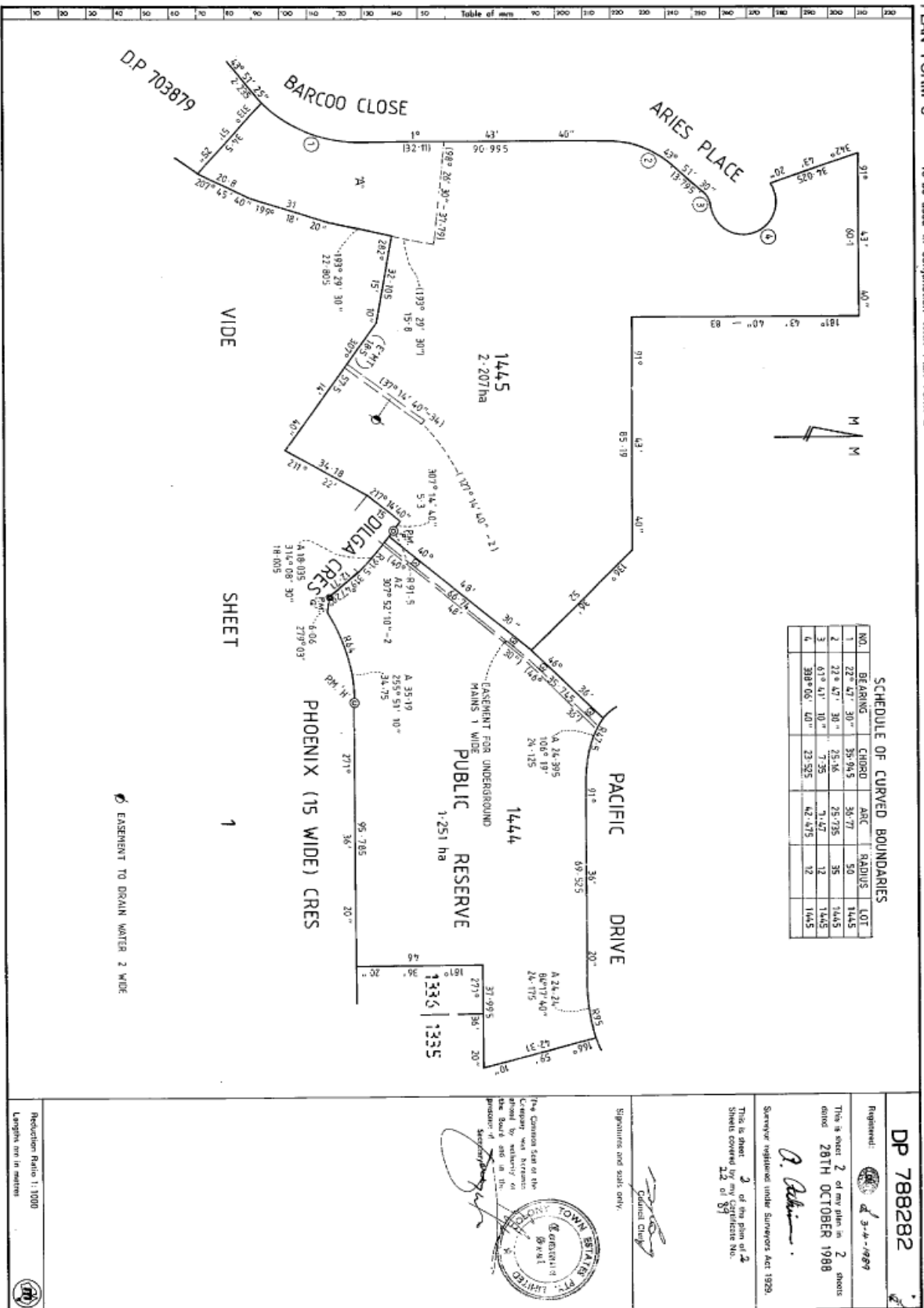


WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

• OFFICE USE ONLY

SCHEDULE OF CURVED BOUNDARIES

| NO. | BEARING | CHORD | ARC | RADIUS | LOT |
|-----|--------------|--------|--------|--------|------|
| 1 | 22° 47' 30" | 39.945 | 30.77 | 50 | 1445 |
| 2 | 22° 47' 30" | 35.16 | 25.735 | 35 | 1445 |
| 3 | 61° 41' 10" | 7.35 | 7.47 | 12 | 1445 |
| 4 | 308° 05' 40" | 23.525 | 42.475 | 12 | 1445 |





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1444/788282

| SEARCH DATE | TIME | EDITION NO | DATE |
|-------------|---------|------------|-----------|
| 9/3/2021 | 4:17 PM | 1 | 10/4/1989 |

LAND

LOT 1444 IN DEPOSITED PLAN 788282
AT ERSKINE PARK
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP788282

FIRST SCHEDULE

THE COUNCIL OF THE CITY OF PENRITH

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 EASEMENT(S) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
DIAGRAM CREATED BY:
DP788282 FOR UNDERGROUND MAINS 1 WIDE
- 3 K200000P CAVEAT BY THE REGISTRAR GENERAL FORBIDDING ANY
UNAUTHORISED DEALINGS WITH PUBLIC RESERVES

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs

PRINTED ON 9/3/2021

Obtained from NSW LRS on 09 March 2021 03:18 PM AEST

© Office of the Registrar-General 2021

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. GlobalX hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900. Note: Information contained in this document is provided by GlobalX Pty Ltd, ABN 35 099 032 596, www.globalx.com.au an approved NSW Information Broker.



APPENDIX VI

HAZARDOUS CHEMICALS SEARCH

Our Ref: D21/048846

30 April 2021

Mr Chris Chen
Getex Pty Ltd
Chris.chen@getex.com.au

Dear Mr Chen

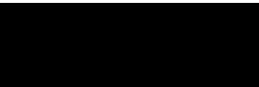
RE SITE: 27a Phoenix Crescent, Erskine Park NSW 2759

I refer to your site search request received by SafeWork NSW requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely



Gabriela Draper

Licensing Representative
Licensing and Funds, Better Regulation
SafeWork NSW



APPENDIX VII

BELOW GROUNDS UTILITIES SEARCH



WARNING

All electrical apparatus shall be regarded as live until proved de-energised.

- All electrical apparatus shall be removed as live until provided de-energised. Contact with live electrical apparatus will cause severe injury or death.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete. Endeavour Energy staff will advise the customer on how to complete the plans. Plans not shown on pages, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans do not show any underground customer service mains or information relating to private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organophosphate Pesticide (OPP) may be present in some sub-transmission areas.
- All plans must be printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.












INFORMATION PROVIDED BY ENDEAVOUR ENERGY

Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

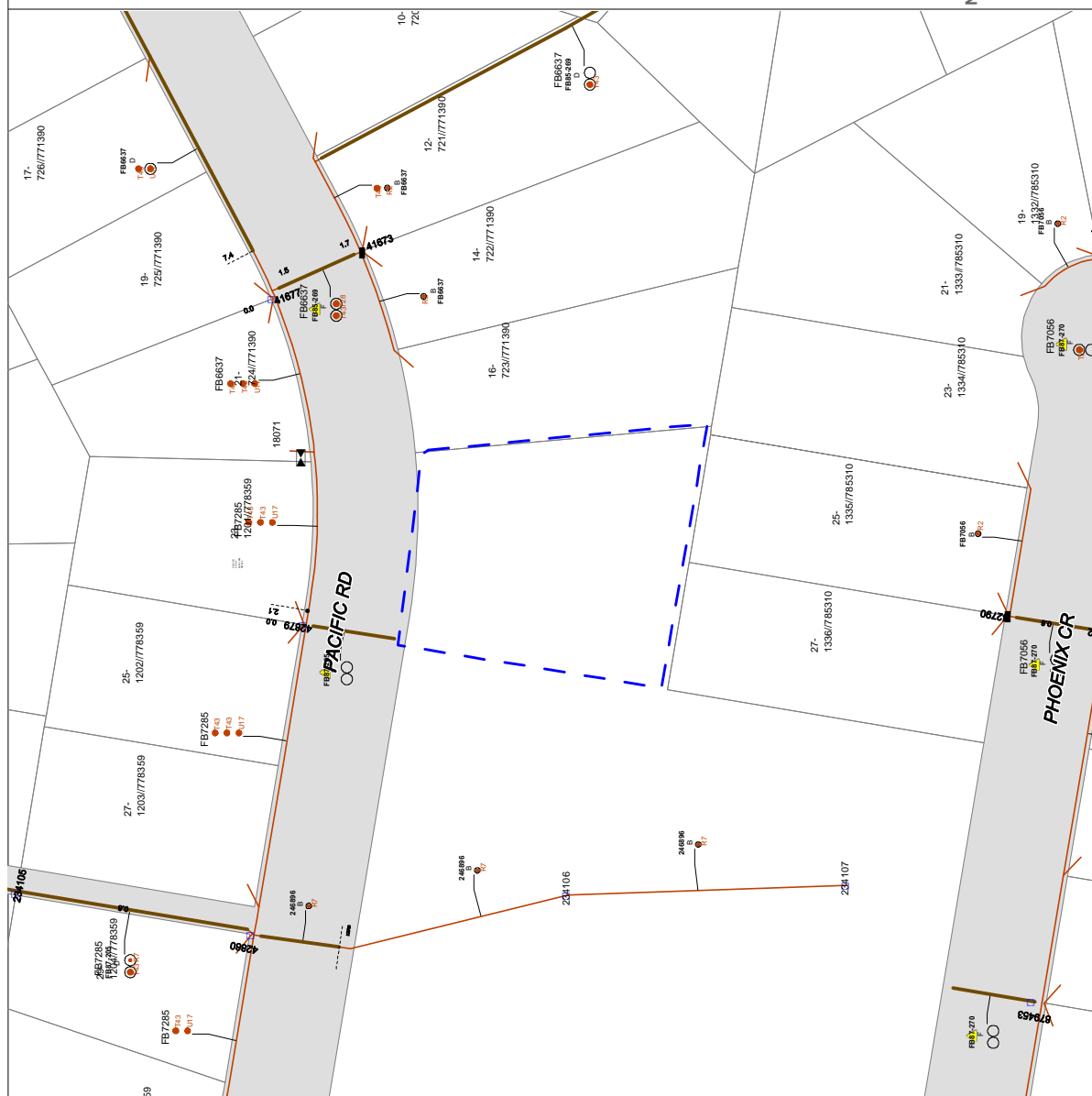
Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

- LEGEND**
- | | | | |
|---|----|---|-----------------------------|
|  | or |  | Street light column |
|  | |  | Pediment substation |
|  | or |  | Overground pillar (O.G.Box) |
| | |  | Underground pit |
| | |  | Duct run |
| | |  | Cable run |
| | |  | Typical duct section |
| | |  | Asbestos warning |

NOT TO SCALE


| | |
|--------------------|------------|
| DBYD Sequence No.: | 107297753 |
| Issued Date: | 05/03/2021 |

Cadastral: © Land and Property Information 2015, 2016





To: Mr Justin Thompson-Laing
Phone: Not Supplied
Fax: 0298892499
Email: help@getex.com.au

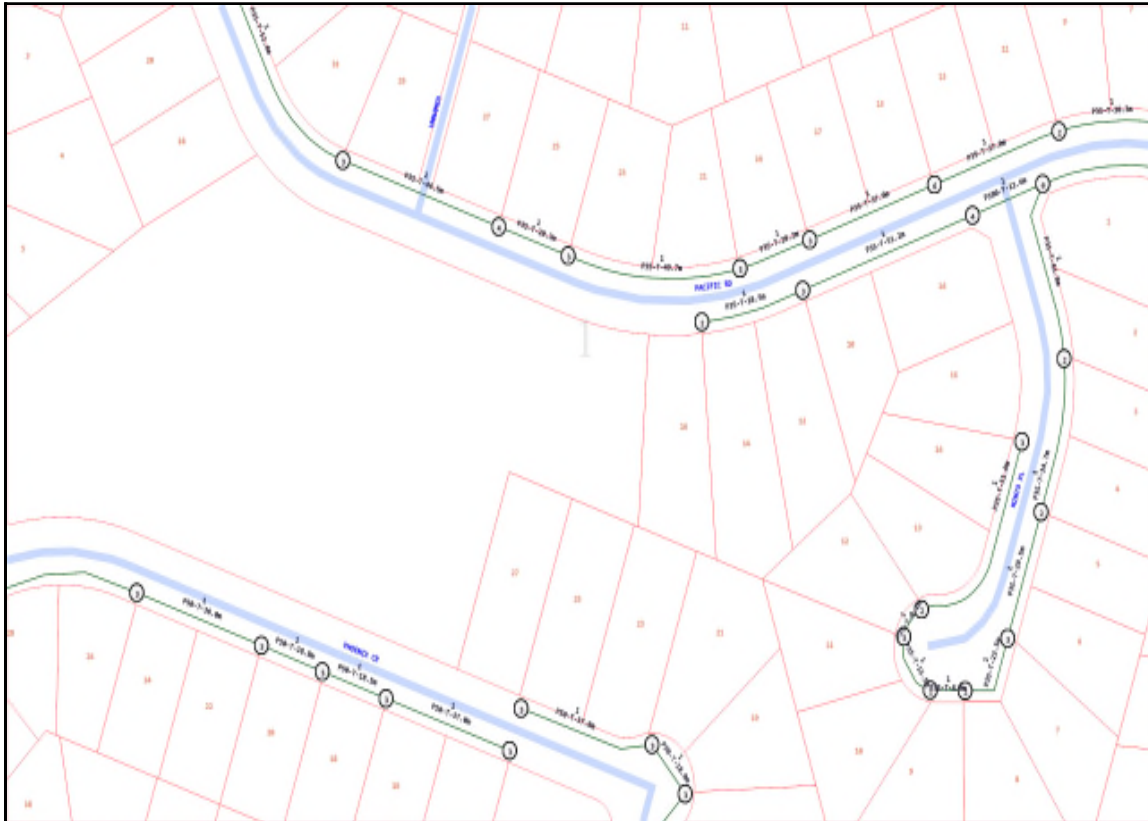
| | | |
|-----------------------------------|--|---|
| Dial before you dig Job #: | 21204104 |  |
| Sequence # | 107297757 | |
| Issue Date: | 05/03/2021 | |
| Location: | 27a Phoenix Crescent , Erskine Park , NSW , 2759 | |

Indicative Plans





| | |
|--|--|
| | <div data-bbox="1066 481 1337 593"> </div> <div data-bbox="691 544 866 582"> <h1>LEGEND</h1> </div> |
| | Parcel and the location |
| | Pit with size "5" |
| | Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null. |
| | Manhole |
| | Pillar |
| | Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart. |
| | 2 Direct buried cables between pits of sizes, "5" and "9" are 10.0m apart. |
| | Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables. |
| | Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables. |
| | Trench containing any INSERVICE/CONSTRUCTED (Power) cables. |
| | Road and the street name "Broadway ST" |
| <div data-bbox="406 1765 478 1798"> Scale </div> | <div data-bbox="675 1731 1169 1843"> 0 20 40 60 Meters 1:2000 1 cm equals 20 m </div> |

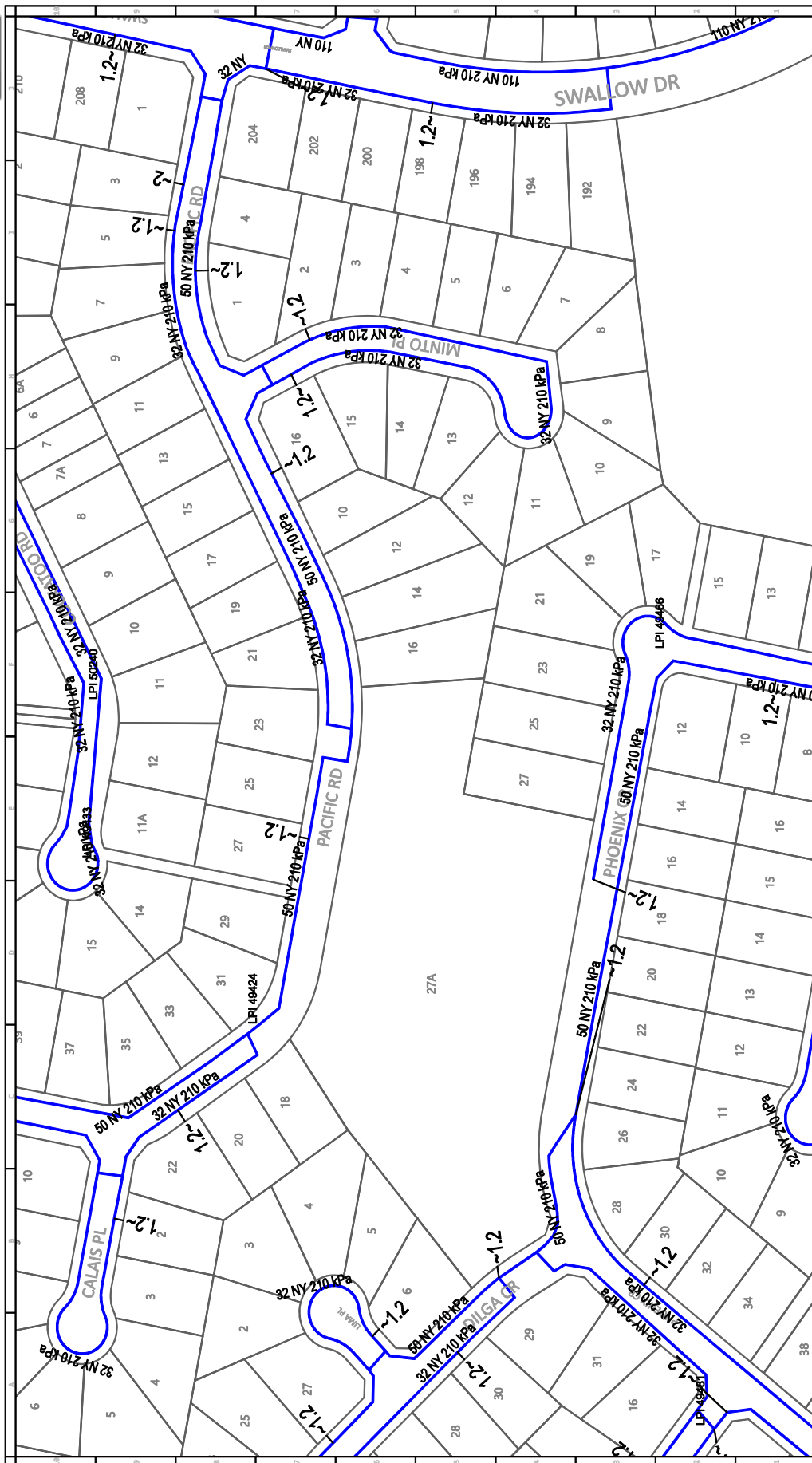


Emergency Contacts

You must immediately report any damage to the **nbn** network that you are/become aware of. Notification may be by telephone - 1800 2 329.



DBYD Authority: Jemena Gas Networks (NSW) DBYD Location: 27a Phoenix Crescent Erskine Park NSW, 2759



Issue Date: 05/03/2021
DBYD Seq No: 107297755
DBYD Job No: 21204104

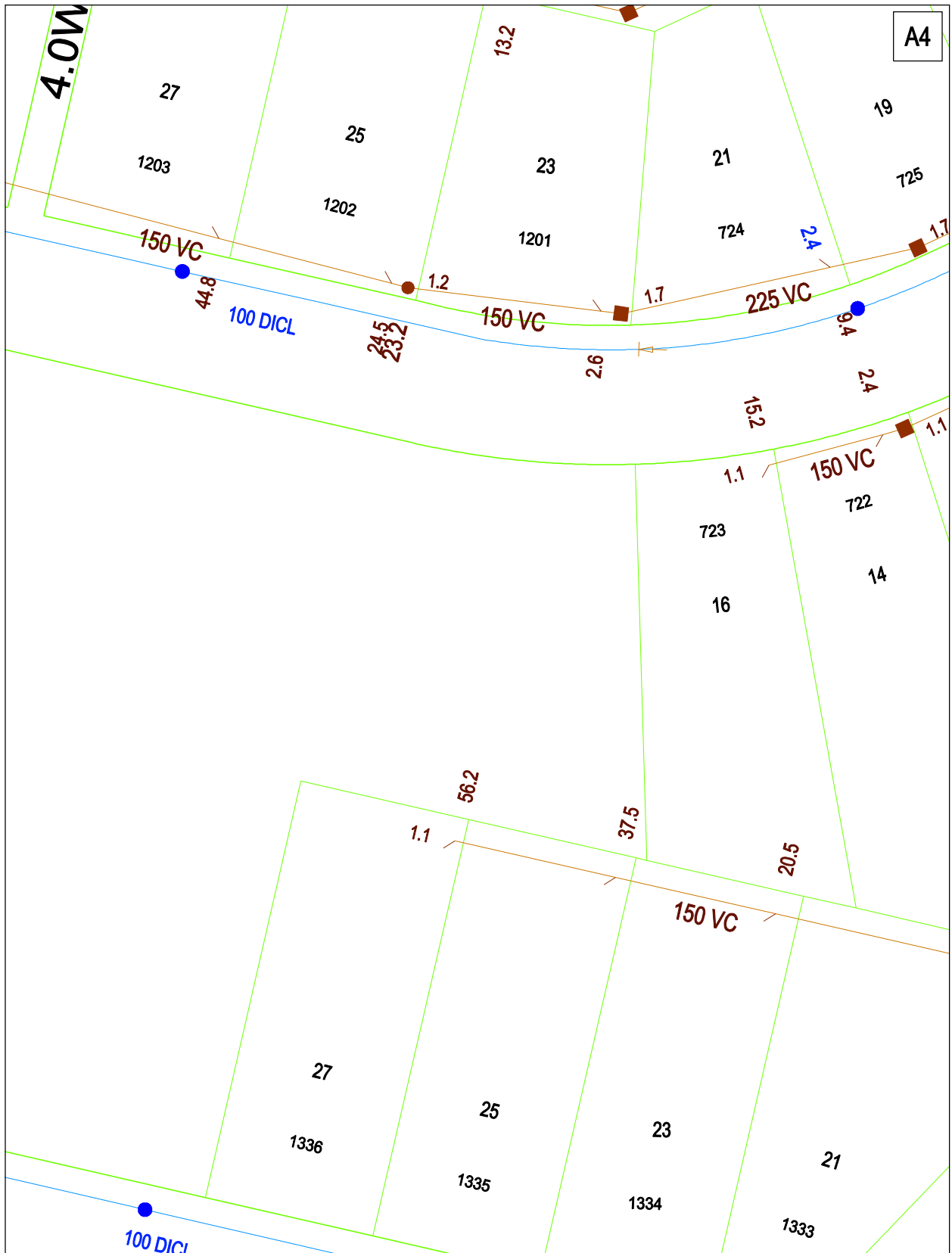


Scale: 1:2000

For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.



WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



DBYD Address:
27a Phoenix Crescent
Erskine Park NSW 2759
DBYD Job No: 21204104
DBYD Sequence No: 107297756

Copyright Reserved Sydney Water 2021

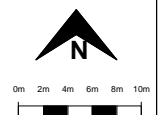
No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

Scale: 1:500

Date of Production: 05/03/2021

Plan 1 of 1





APPENDIX VIII

ANALYSIS RESULTS

SOIL ANALYSIS RESULTS

| METALS | | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 | 11538/ST4/TP07/S1 |
|-------------------------------|----------------------|-------------|-------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Residential Land Use | Residential | | Sample Location | TP01 | TP02 | TP03 | TP04 | TP05 | TP06 | TP07 |
| Sample Depth from Surface (m) | - | - | | | 0.4 | 0.15 | 0.15 | 020 | 0.15 | 0.15 | 0.25 |
| ANALYTE | NEPM HIL | NEPM EIL | Units | PQL | | | | | | | |
| Arsenic | 100 | 100 | mg/kg | 4 | 9 | 5 | 7 | 6 | 8 | 6 | 7 |
| Cadmium | 20 | - | mg/kg | 0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | 100 | 510 | mg/kg | 1 | 30 | 18 | 43 | 12 | 27 | 37 | 37 |
| Copper | 7000 | 95 | mg/kg | 1 | 9 | 4 | 3 | 10 | 7 | 2 | 4 |
| Lead | 300 | 1100 | mg/kg | 0.1 | 17 | 10 | 13 | 12 | 14 | 12 | 17 |
| Mercury | 200 | - | mg/kg | 1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | 400 | 110 | mg/kg | 1 | 6 | 4 | 2 | 5 | 5 | 3 | 5 |
| Zinc | 8000 | 270 | mg/kg | 1 | 16 | 13 | 6 | 19 | 15 | 7 | 9 |

| TRH/BTEX | | | | | | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 | 11538/ST4/TP07/S1 |
|--------------------------------------|----------------------------|----------|-------------------------------|------------------------|------------------------|-------------------|-------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Urban Residential Land Use | | | | | Urban Residential | | Sample Location | TP01 | TP02 | TP03 | TP04 | TP05 | TP06 | TP07 |
| Sample Depth from Surface (m) | 0 to <1 | 0 to <1 | | - | - | - | | | 0.2 | 0.2 | 0.25 | 0.25 | 0.35 | 0.2 | 0.2 |
| Soil Type | Sand | Clay | | Fine | Course | Course/ Fine | | | Clay | Clay | Clay | Clay | Clay | Clay | Clay |
| ANALYTE | NEPM HSL | NEPM HSL | Supplementary Guideline Level | NEPM Management Limits | NEPM Management Limits | NEPM ESL | Units | PQL | | | | | | | |
| TRH C6 - C9 | - | - | - | 800 | 700 | - | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6 - C10 | - | - | - | - | - | - | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| vTPH C6 - C10 less BTEX (F1) | NL | NL | - | - | - | 180/180 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | NL | NL | - | - | - | 50/65 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | NL | NL | - | - | - | 85/105 | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | NL | NL | - | - | - | 70/125 | mg/kg | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | - | - | - | - | - | - | mg/kg | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | - | - | - | - | - | - | mg/kg | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| naphthalene | NL | NL | - | - | - | - | mg/kg | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | NL | NL | - | - | - | 105/45 | mg/kg | 3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| TRH C10 - C14 | - | - | - | - | - | - | mg/kg | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| TRH C15 - C28 | - | - | - | - | - | - | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| TRH C29 - C36 | - | - | - | - | - | - | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | - | - | - | 1000 | 1000 | - | mg/kg | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| TRH >C10 - C16 less Naphthalene (F2) | NL | NL | - | - | - | 120/120 | mg/kg | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| TRH>C16-C34 (F3) | - | - | 4500* | 3500 | 2500 | 300/1300 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 | <100 | 110 |
| TRH>C34-C40 (F4) | - | - | 6300* | 10000 | 10000 | 2800/5600 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | - | - | - | - | - | - | mg/kg | 50 | <50 | <50 | <50 | <50 | <50 | <50 | 110 |

*Residential (Low Density) Friebel, E & Nadebaum, P 2011a, HSLs for petroleum hydrocarbons in soil and groundwater, part 1: technical development document, Technical report no. 10, CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia.

| PAH | | | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 | 11538/ST4/TP07/S1 | |
|--------------------------------|----------------------|----------|----------------------|--------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| | Residential Land Use | | Residential Land Use | Residential | | Sample Location | TP01 | TP02 | TP03 | TP04 | TP05 | TP06 | TP07 |
| Sample Depth from Surface (m) | 0 to <1 | 0 to <1 | - | - | | | 0.2 | 0.2 | 0.25 | 0.25 | 0.35 | 0.2 | 0.2 |
| Soil Type | Sand | Clay | - | - | | | Clay | Clay | Clay | Clay | Clay | Clay | Clay |
| ANALYTE | NEPM HSL | NEPM HSL | NEPM HIL | NEPM ESL/EIL | Units | PQL | | | | | | | |
| Naphthalene | NL | NL | - | 170 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | - | - | - | - | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | - | - | - | 0.7 | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | - | - | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | - | - | 300 | - | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | - | - | 3 | - | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | - | - | 3 | - | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | - | - | 3 | - | mg/kg | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| OCP/OPP | | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP07/S1 |
|-------------------------------|----------------------|-------------|-------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | Residential Land Use | Residential | | Sample Location | TP01 | TP03 | TP05 | TP07 |
| Sample Depth from Surface (m) | - | - | | | 0.40 | 0.15 | 0.15 | 0.25 |
| ANALYTE | NEPM HIL | NEPM EIL | Units | PQL | | | | |
| alpha-BHC | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 15 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| beta-BHC | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-BHC | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | 9 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| delta-BHC | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor Epoxide | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-Chlordane | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| alpha-chlordane | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan I | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDE | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | 10 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan II | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDD | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDT | - | 180 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan Sulphate | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | 400 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dichlorvos | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos-methyl | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fenitrothion | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Malathion | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos | 170 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | - | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| DDT+DDE+DDD | 260 | - | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin and Dieldrin | 7 | - | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total Chlordane | 50 | - | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

| OCP/OPP | | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP07/S1 |
|-------------------------------|----------------------|-------------|-------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | Residential Land Use | Residential | | Sample Location | TP01 | TP03 | TP05 | TP07 |
| Sample Depth from Surface (m) | | - | - | | 0.40 | 0.15 | 0.15 | 0.25 |
| ANALYTE | NEPM HIL | NEPM EIL | Units | PQL | | | | |
| Total Endosulfan | 300 | - | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total Endrin | 10 | - | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total Heptachlor | 7 | - | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

| PCBs | | | Sample Number | 11538/ST4/TP01/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP07/S1 |
|-------------------------------|----------------------|-------|-----------------|-------------------|-------------------|-------------------|-------------------|
| | Residential Land Use | | Sample Location | TP01 | TP03 | TP05 | TP07 |
| Sample Depth from Surface (m) | | | | 0.40 | 0.15 | 0.15 | 0.25 |
| ANALYTE | NEPM HIL | Units | PQL | | | | |
| Total PCBs (1016-1260) | 1 | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| Inputs |
|---|
| Select contaminant from list below |
| As |
| Below needed to calculate fresh and aged ACLs |
| |
| |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| |
| or for fresh ABCs only |
| |
| or for aged ABCs only |
| |

| Outputs | | |
|---|------------------------------|------|
| Land use | Arsenic generic EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 20 | 40 |
| Urban residential and open public spaces | 50 | 100 |
| Commercial and industrial | 80 | 160 |

| Inputs | |
|---|--|
| Select contaminant from list below | |
| Cr_III | |
| Below needed to calculate fresh and aged ACLs | |
| | |
| | |
| | |
| Enter % clay (values from 0 to 100%) | |
| 20 | |
| Below needed to calculate fresh and aged ABCs | |
| Measured background concentration (mg/kg). Leave blank if no measured value | |
| | |
| or for fresh ABCs only | |
| (values from 0 to 50%) to obtain estimate | |
| 6.2 | |
| or for aged ABCs only | |
| Enter State (or closest State) | |
| NSW | |
| Enter traffic volume (high or low) | |
| high | |

| Outputs | | |
|---|------------------------------|------|
| Land use | Cr III soil-specific EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 130 | 170 |
| Urban residential and open public spaces | 270 | 510 |
| Commercial and industrial | 400 | 850 |

| Inputs |
|---|
| Select contaminant from list below |
| Cu |
| Below needed to calculate fresh and aged ACLs |
| Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt) |
| 8.1 |
| Enter soil pH (calcium chloride method) (values from 1 to 14) |
| 4.7 |
| Enter organic carbon content (%OC) (values from 0 to 50%) |
| 2.2 |
| |
| Below needed to calculate fresh and aged ABCs |
| Measured background concentration (mg/kg). Leave blank if no measured value |
| |
| or for fresh ABCs only |
| (values from 0 to 50%) to obtain estimate |
| 6.2 |
| or for aged ABCs only |
| Enter State (or closest State) |
| NSW |
| Enter traffic volume (high or low) |
| high |

| Outputs | | |
|---|------------------------------|------|
| Land use | Cu soil-specific EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 35 | 50 |
| Urban residential and open public spaces | 55 | 95 |
| Commercial and industrial | 75 | 130 |

| Inputs |
|---|
| Select contaminant from list below |
| DDT |
| Below needed to calculate fresh and aged ACLs |
| |
| |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| |
| or for fresh ABCs only |
| |
| or for aged ABCs only |
| |

| Outputs | | |
|---|------------------------------|------|
| Land use | DDT generic EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 3 | 3 |
| Urban residential and open public spaces | 180 | 180 |
| Commercial and industrial | 640 | 640 |

| Inputs |
|---|
| Select contaminant from list below |
| Naphthalene |
| Below needed to calculate fresh and aged ACLs |
| |
| |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| |
| or for fresh ABCs only |
| |
| or for aged ABCs only |
| |

| Outputs | | |
|---|------------------------------|------|
| Land use | Naphthalene generic EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 10 | 10 |
| Urban residential and open public spaces | 170 | 170 |
| Commercial and industrial | 370 | 370 |

| Inputs |
|---|
| Select contaminant from list below |
| Ni |
| Below needed to calculate fresh and aged ACLs |
| Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt) |
| 8.1 |
| |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| Measured background concentration (mg/kg). Leave blank if no measured value |
| |
| or for fresh ABCs only |
| (values from 0 to 50%) to obtain estimate |
| 6.2 |
| or for aged ABCs only |
| Enter State (or closest State) |
| NSW |
| Enter traffic volume (high or low) |
| high |

| Outputs | | |
|---|------------------------------|------|
| Land use | Ni soil-specific EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 30 | 20 |
| Urban residential and open public spaces | 55 | 110 |
| Commercial and industrial | 90 | 180 |

| Inputs |
|---|
| Select contaminant from list below |
| Pb |
| Below needed to calculate fresh and aged ACLs |
| |
| |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| |
| or for fresh ABCs only |
| |
| or for aged ABCs only |
| |

| Outputs | | |
|---|------------------------------|------|
| Land use | Lead generic EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 110 | 470 |
| Urban residential and open public spaces | 270 | 1100 |
| Commercial and industrial | 440 | 1800 |

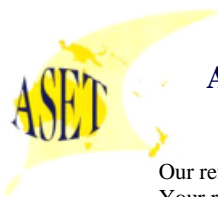
| Inputs |
|---|
| Select contaminant from list below |
| Zn |
| Below needed to calculate fresh and aged ACLs |
| Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt) |
| 8.1 |
| Enter soil pH (calcium chloride method) (values from 1 to 14) |
| 4.7 |
| |
| |
| Below needed to calculate fresh and aged ABCs |
| Measured background concentration (mg/kg). Leave blank if no measured value |
| |
| or for fresh ABCs only |
| (values from 0 to 50%) to obtain estimate |
| 6.2 |
| or for aged ABCs only |
| Enter State (or closest State) |
| NSW |
| Enter traffic volume (high or low) |
| high |

| Outputs | | |
|---|------------------------------|------|
| Land use | Zn soil-specific EILs | |
| | (mg contaminant/kg dry soil) | |
| | Fresh | Aged |
| National parks and areas of high conservation value | 45 | 150 |
| Urban residential and open public spaces | 85 | 270 |
| Commercial and industrial | 120 | 350 |



APPENDIX IX

LABORATORY ANALYSIS REPORTS



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET92243 / 95423 / 1 - 29

Your ref : 11538

NATA Accreditation No: 14484

6 April 2021

Getex Pty Ltd
Unit 2 Building B 64 Talavera Road
Macquarie Park NSW 2113



Attn: Mr Chris Chen

Accredited for compliance with ISO/IEC 17025 - Testing.

Dear Chris

Asbestos Identification

This report presents the results of twenty nine samples, forwarded by Getex Pty Ltd on 31 March 2021, for analysis for asbestos.

1.Introduction: Twenty nine samples forwarded were examined and analysed for the presence of asbestos on 01 April 2021.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).

The report also provides approximate weights and percentages, categories of asbestos forms appearing in the sample, such as **AF**(Asbestos Fines), **FA**(Friable Asbestos and **ACM** (Asbestos Containing Material), also satisfying the requirements of the WA/ NEPM Guidelines).

3. Results : **Sample No. 1. ASET92243 / 95423 / 1. 11538/ST1/TP02/AS01.**

Approx dimensions 10.0 cm x 10.0 cm x 5.1 cm

Approximate total dry weight of soil = 508.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

λ Sample No. 2. ASET92243 / 95423 / 2. 11538/ST2/TP04/AS02.

Approx dimensions 5.0 cm x 4.0 cm x 0.6 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.

Approximate total weight of fibre cement = 17.0g.

Ω Sample No. 3. ASET92243 / 95423 / 3. 11538/ST1/TP03/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.6 cm

Approximate total dry weight of soil = 459.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02)99872151 EMAIL: info@ausset.com.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING



Ω Sample No. 4. ASET92243 / 95423 / 4. 11538/ST1/TP04/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.1 cm

Approximate total dry weight of soil = 414.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 5. ASET92243 / 95423 / 5. 11538/ST1/TP05/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.7 cm

Approximate total dry weight of soil = 465.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of plastic, wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 6. ASET92243 / 95423 / 6. 11538/ST1/TP06/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.5 cm

Approximate total dry weight of soil = 446.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of corroded metal, plastic, wood chips, char and plant matter.

No asbestos detected.

Sample No. 7. ASET92243 / 95423 / 7. 11538/ST2/TP02/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.0 cm

Approximate total dry weight of soil = 497.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of mica like material, wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 8. ASET92243 / 95423 / 8. 11538/ST2/TP03/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.1 cm

Approximate total dry weight of soil = 414.0g.

The sample consisted of a mixture of clayish sandy soil, stones and plant matter.

No asbestos detected.

Ω Sample No. 9. ASET92243 / 95423 / 9. 11538/ST2/TP04/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.4 cm

Approximate total dry weight of soil = 440.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Sample No. 10. ASET92243 / 95423 / 10. 11538/ST2/TP05/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.0 cm

Approximate total dry weight of soil = 501.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 11. ASET92243 / 95423 / 11. 11538/ST2/TP06/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.5 cm

Approximate total dry weight of soil = 448.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.



Sample No. 12. ASET92243 / 95423 / 12. 11538/ST4/TP02/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.4 cm

Approximate total dry weight of soil = 536.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of sandstone, slag and plant matter.

No asbestos detected.

Sample No. 13. ASET92243 / 95423 / 13. 11538/ST4/TP03/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.6 cm

Approximate total dry weight of soil = 562.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of sandstone, slag, wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 14. ASET92243 / 95423 / 14. 11538/ST4/TP04/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.7 cm

Approximate total dry weight of soil = 463.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of char and plant matter.

No asbestos detected.

Ω Sample No. 15. ASET92243 / 95423 / 15. 11538/ST4/TP05/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.8 cm

Approximate total dry weight of soil = 480.0g.

The sample consisted of a mixture of clayish sandy soil, stones and plant matter.

No asbestos detected.

Sample No. 16. ASET92243 / 95423 / 16. 11538/ST4/TP06/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.1 cm

Approximate total dry weight of soil = 513.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Ω Sample No. 17. ASET92243 / 95423 / 17. 11538/ST5/TP02/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 3.3 cm

Approximate total dry weight of soil = 334.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.

Sample No. 18. ASET92243 / 95423 / 18. 11538/ST5/TP03/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.1 cm

Approximate total dry weight of soil = 510.0g.

The sample consisted of a mixture of clayish sandy soil, stones and plant matter.

No asbestos detected.

Sample No. 19. ASET92243 / 95423 / 19. 11538/ST5/TP04/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.9 cm

Approximate total dry weight of soil = 492.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of cement, wood chips and plant matter.

No asbestos detected.



Sample No. 20. ASET92243 / 95423 / 20. 11538/ST5/TP05/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.9 cm

Approximate total dry weight of soil = 488.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of cement, wood chips and plant matter.

No asbestos detected.

Sample No. 21. ASET92243 / 95423 / 21. 11538/ST5/TP06/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.9 cm

Approximate total dry weight of soil = 494.0g.

The sample consisted of a mixture of clayish sandy soil, stones and plant matter.

No asbestos detected.

Sample No. 22. ASET92243 / 95423 / 22. 11538/ST6/TP02/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 5.1 cm

Approximate total dry weight of soil = 508.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips and plant matter.

No asbestos detected.

λ Sample No. 23. ASET92243 / 95423 / 23. 11538/ST6/TP02/AS02.

Approx dimensions 3.3 cm x 3.1 cm x 0.5 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.

Approximate total weight of fibre cement = 10.0g.

Ω Sample No. 24. ASET92243 / 95423 / 24. 11538/ST6/TP03/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.8 cm

Approximate total dry weight of soil = 478.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

λ Sample No. 25. ASET92243 / 95423 / 25. 11538/ST6/TP03/AS02.

Approx dimensions 6.0 cm x 3.0 cm x 0.6 cm

The sample consisted of fragments of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.

Approximate total weight of fibre cement = 18.0g.

Sample No. 26. ASET92243 / 95423 / 26. 11538/ST6/TP04/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.9 cm

Approximate total dry weight of soil = 489.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of char and plant matter.

No asbestos detected.

Ω Sample No. 27. ASET92243 / 95423 / 27. 11538/ST6/TP05/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.7 cm

Approximate total dry weight of soil = 473.0g.

The sample consisted of a mixture of clayish sandy soil, stones, fragments of wood chips, char and plant matter.

No asbestos detected.



Q Sample No. 28. ASET92243 / 95423 / 28. 11538/ST6/TP06/AS01.

Approx dimensions 10.0 cm x 10.0 cm x 4.5 cm

Approximate total dry weight of soil = 448.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Q Sample No. 29. ASET92243 / 95423 / 29. 11538/ST6/TP08/AS01.

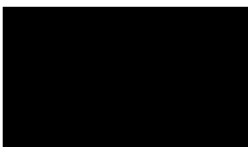
Approx dimensions 10.0 cm x 10.0 cm x 4.4 cm

Approximate total dry weight of soil = 443.0g.

The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of wood chips, char and plant matter.

No asbestos detected.

Reported by,



**Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory**



Accredited for compliance with ISO/IEC 17025 - Testing.

This report is consistent with the analytical procedures and reporting recommendations in the Western Australia Guidelines for the Assessment Remediation and Management of Asbestos contaminated sites in Western Australia and it also satisfies the requirements of the current NEPM Guidelines. NATA Accreditation does not cover the performance of this service.

Disclaimers;

The approx; weights given above can be used only as a guide. They do not represent absolute weights of each kind of asbestos, as it is impossible to extract all loose fibres from soil and other asbestos containing building material samples using this method. However above figures may be used as closest approximations to the exact values in each case. Estimation and/ or reporting of asbestos fibre weights in asbestos containing materials and soil is out of the Scope of the NATA Accreditation. NATA Accreditation only covers the qualitative part of the results reported. This weight disclaimer also covers weight / weight percentages if given.

ACM - Asbestos Containing Material - Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Here taken to be sound material, even as fragments and not fitting through a 7mm X 7 mm sieve.

AF -Includes asbestos free fibres, small fibre bundles and also ACM fragments that pass through a 7mm X 7 mm sieve.

FA -Friable asbestos material such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products.

^ denotes loose fibres of relevant asbestos types detected in soil/dust.

*** denotes asbestos detected in ACM in bonded form.**

Page 5 of 6



denotes friable asbestos as soft fibro plaster and/ or highly weathered ACM that will easily crumble.

λ denotes samples that have been analysed only in accordance to AS 4964 – 2004.

Ω Sample volume criteria of 500mL have not been satisfied.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by AS4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

Estimation of asbestos weights involves the use of following assumptions;

Volume of each kind of Asbestos present in broken edges have been visually estimated and its been assumed that volumes remain similar throughout the binding matrix and those volumes are only approximate and not exact. Material densities have been assumed to be similar to commonly found similar materials and may not be exact.

All samples indicating "No asbestos detected" are assumed to be less than 0.001% for friable AF and FA portions detected and 0.01 % for ACM detected unless the approximate weight is given.

CERTIFICATE OF ANALYSIS 265582

Client Details

| | |
|------------------|---|
| Client | Getex Pty Ltd |
| Attention | Chris Chen |
| Address | Unit 2, Building B, 64 Talavera Road, MACQUARIE PARK, NSW, 2113 |

Sample Details

| | |
|---|---------------------|
| Your Reference | <u>11538</u> |
| Number of Samples | 42 Soil, 5 Water |
| Date samples received | 31/03/2021 |
| Date completed instructions received | 31/03/2021 |

Analysis Details

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

Report Details

| | |
|---|------------|
| Date results requested by | 09/04/2021 |
| Date of Issue | 09/04/2021 |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | |

Results Approved By

Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Nancy Zhang, Laboratory Manager, Sydney
 Nick Sarlamis, Inorganics Supervisor
 Steven Luong, Organics Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Envirolab Reference: 265582
 Revision No: R00



Page | 1 of 60

Client Reference: 11538

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-1 | 265582-2 | 265582-3 | 265582-4 | 265582-5 |
| Your Reference | UNITS | 11538/ST1/TP01/ S1 | 11538/ST1/TP01/ S1a | 11538/ST1/TP02/ S1 | 11538/ST1/TP03/ S1 | 11538/ST1/TP04/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 127 | 123 | 121 | 127 | 124 |

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-6 | 265582-7 | 265582-8 | 265582-9 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP05/ S1 | 11538/ST1/TP06/ S1 | 11538/ST2/TP01/ S1 | 11538/ST2/TP02/ S1 | 11538/ST2/TP03/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 124 | 127 | 122 | 126 | 125 |

Client Reference: 11538

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-11 | 265582-12 | 265582-13 | 265582-14 | 265582-15 |
| Your Reference | UNITS | 11538/ST2/TP04/S1 | 11538/ST2/TP05/S1 | 11538/ST2/TP06/S1 | 11538/ST2/TP07/S1 | 11538/ST4/TP01/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 125 | 130 | 128 | 120 | 128 |

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-16 | 265582-17 | 265582-18 | 265582-19 | 265582-20 |
| Your Reference | UNITS | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 128 | 122 | 126 | 125 | 119 |

Client Reference: 11538

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-23 | 265582-24 | 265582-25 |
| Your Reference | UNITS | 11538/ST4/TP07/ S1 | 11538/ST5/TP01/ S1 | 11538/ST5/TP01/ S1a | 11538/ST5/TP02/ S1 | 11538/ST5/TP03/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 122 | 122 | 121 | 116 | 124 |

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-26 | 265582-27 | 265582-28 | 265582-29 | 265582-30 |
| Your Reference | UNITS | 11538/ST5/TP04/ S1 | 11538/ST5/TP05/ S1 | 11538/ST5/TP06/ S1 | 11538/ST5/TP07/ S1 | 11538/ST5/TP08/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 119 | 126 | 119 | 126 | 127 |

Client Reference: 11538

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-31 | 265582-32 | 265582-33 | 265582-34 | 265582-35 |
| Your Reference | UNITS | 11538/ST6/TP01/S1 | 11538/ST6/TP02/S1 | 11538/ST6/TP03/S1 | 11538/ST6/TP04/S1 | 11538/ST6/TP05/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 130 | 122 | 125 | 122 | 128 |

| vTRH(C6-C10)/BTEXN in Soil | | | | | | |
|--|-------|-------------------|-------------------|----------------|----------------|----------------|
| Our Reference | | 265582-36 | 265582-37 | 265582-39 | 265582-41 | 265582-43 |
| Your Reference | UNITS | 11538/ST6/TP06/S1 | 11538/ST6/TP07/S1 | 11538/ST1/TB01 | 11538/ST2/TB01 | 11538/ST4/TB01 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | [NA] | [NA] | [NA] |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | [NA] | [NA] | [NA] |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | [NA] | [NA] | [NA] |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 | <1 | <1 |
| naphthalene | mg/kg | <1 | <1 | [NA] | [NA] | [NA] |
| Total +ve Xylenes | mg/kg | <3 | <3 | [NA] | [NA] | [NA] |
| Surrogate aaa-Trifluorotoluene | % | 123 | 128 | 110 | 106 | 107 |

Client Reference: 11538

| vTRH(C6-C10)/BTEXN in Soil | | | |
|--------------------------------|-------|----------------|----------------|
| Our Reference | | 265582-45 | 265582-47 |
| Your Reference | UNITS | 11538/ST5/TB01 | 11538/ST6/TB01 |
| Type of sample | | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 |
| Benzene | mg/kg | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 |
| Surrogate aaa-Trifluorotoluene | % | 103 | 106 |

Client Reference: 11538

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|--------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-1 | 265582-2 | 265582-3 | 265582-4 | 265582-5 |
| Your Reference | UNITS | 11538/ST1/TP01/S1 | 11538/ST1/TP01/S1a | 11538/ST1/TP02/S1 | 11538/ST1/TP03/S1 | 11538/ST1/TP04/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 97 | 78 | 69 | 86 | 92 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-6 | 265582-7 | 265582-8 | 265582-9 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP05/S1 | 11538/ST1/TP06/S1 | 11538/ST2/TP01/S1 | 11538/ST2/TP02/S1 | 11538/ST2/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 83 | 84 | 77 | 77 | 80 |

Client Reference: 11538

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-11 | 265582-12 | 265582-13 | 265582-14 | 265582-15 |
| Your Reference | UNITS | 11538/ST2/TP04/S1 | 11538/ST2/TP05/S1 | 11538/ST2/TP06/S1 | 11538/ST2/TP07/S1 | 11538/ST4/TP01/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 79 | 79 | 83 | 78 | 80 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-16 | 265582-17 | 265582-18 | 265582-19 | 265582-20 |
| Your Reference | UNITS | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 77 | 78 | 89 | 83 | 79 |

Client Reference: 11538

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|-------------------|--------------------|-------------------|-------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-23 | 265582-24 | 265582-25 |
| Your Reference | UNITS | 11538/ST4/TP07/S1 | 11538/ST5/TP01/S1 | 11538/ST5/TP01/S1a | 11538/ST5/TP02/S1 | 11538/ST5/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | 140 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | 260 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 110 | <100 | <100 | 320 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | 140 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | 110 | <50 | <50 | 460 | <50 |
| Surrogate o-Terphenyl | % | 81 | 83 | 75 | 85 | 78 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-26 | 265582-27 | 265582-28 | 265582-29 | 265582-30 |
| Your Reference | UNITS | 11538/ST5/TP04/S1 | 11538/ST5/TP05/S1 | 11538/ST5/TP06/S1 | 11538/ST5/TP07/S1 | 11538/ST5/TP08/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 76 | 83 | 81 | 79 | 80 |

Client Reference: 11538

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-31 | 265582-32 | 265582-33 | 265582-34 | 265582-35 |
| Your Reference | UNITS | 11538/ST6/TP01/ S1 | 11538/ST6/TP02/ S1 | 11538/ST6/TP03/ S1 | 11538/ST6/TP04/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 73 | 76 | 75 | 87 | 74 |

| svTRH (C10-C40) in Soil | | | |
|--|-------|-----------------------|-----------------------|
| Our Reference | | 265582-36 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP06/ S1 | 11538/ST6/TP07/ S1 |
| Type of sample | | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 07/04/2021 | 07/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | <100 | <100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | <100 | <100 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 |
| Surrogate o-Terphenyl | % | 74 | 72 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-1 | 265582-2 | 265582-3 | 265582-4 | 265582-5 |
| Your Reference | UNITS | 11538/ST1/TP01/ S1 | 11538/ST1/TP01/ S1a | 11538/ST1/TP02/ S1 | 11538/ST1/TP03/ S1 | 11538/ST1/TP04/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 81 | 93 | 100 | 86 | 95 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-6 | 265582-7 | 265582-8 | 265582-9 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP05/ S1 | 11538/ST1/TP06/ S1 | 11538/ST2/TP01/ S1 | 11538/ST2/TP02/ S1 | 11538/ST2/TP03/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j,k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 73 | 117 | 95 | 95 | 94 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-11 | 265582-12 | 265582-13 | 265582-14 | 265582-15 |
| Your Reference | UNITS | 11538/ST2/TP04/ S1 | 11538/ST2/TP05/ S1 | 11538/ST2/TP06/ S1 | 11538/ST2/TP07/ S1 | 11538/ST4/TP01/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 95 | 97 | 94 | 90 | 92 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-16 | 265582-17 | 265582-18 | 265582-19 | 265582-20 |
| Your Reference | UNITS | 11538/ST4/TP02/ S1 | 11538/ST4/TP03/ S1 | 11538/ST4/TP04/ S1 | 11538/ST4/TP05/ S1 | 11538/ST4/TP06/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j,k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 89 | 98 | 89 | 90 | 89 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-23 | 265582-24 | 265582-25 |
| Your Reference | UNITS | 11538/ST4/TP07/ S1 | 11538/ST5/TP01/ S1 | 11538/ST5/TP01/ S1a | 11538/ST5/TP02/ S1 | 11538/ST5/TP03/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j,k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 94 | 98 | 89 | 87 | 96 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-26 | 265582-27 | 265582-28 | 265582-29 | 265582-30 |
| Your Reference | UNITS | 11538/ST5/TP04/ S1 | 11538/ST5/TP05/ S1 | 11538/ST5/TP06/ S1 | 11538/ST5/TP07/ S1 | 11538/ST5/TP08/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j,k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 86 | 93 | 87 | 93 | 91 |

Client Reference: 11538

| PAHs in Soil | | | | | | |
|--------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-31 | 265582-32 | 265582-33 | 265582-34 | 265582-35 |
| Your Reference | UNITS | 11538/ST6/TP01/ S1 | 11538/ST6/TP02/ S1 | 11538/ST6/TP03/ S1 | 11538/ST6/TP04/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 08/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.5 | 0.3 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.4 | 0.3 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.2 | 0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j,k)fluoranthene | mg/kg | 0.2 | 0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | 0.2 | 0.2 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | 0.2 | 0.2 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | 2.0 | 1.5 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 95 | 85 | 89 | 84 | 94 |

Client Reference: 11538

| PAHs in Soil | | | |
|--------------------------------|-------|-----------------------|-----------------------|
| Our Reference | | 265582-36 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP06/ S1 | 11538/ST6/TP07 /S1 |
| Type of sample | | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.2 | 0.1 |
| Pyrene | mg/kg | 0.2 | 0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | 0.08 | 0.1 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | 0.4 | 0.4 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 86 | 94 |

Client Reference: 11538

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-1 | 265582-4 | 265582-6 | 265582-8 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP01/S1 | 11538/ST1/TP03/S1 | 11538/ST1/TP05/S1 | 11538/ST2/TP01/S1 | 11538/ST2/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| beta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| delta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor Epoxide | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-Chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| alpha-chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan I | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan II | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDD | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDT | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan Sulphate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 82 | 90 | 77 | 92 | 92 |

Client Reference: 11538

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-12 | 265582-14 | 265582-15 | 265582-17 | 265582-19 |
| Your Reference | UNITS | 11538/ST2/TP05/ S1 | 11538/ST2/TP07/ S1 | 11538/ST4/TP01/ S1 | 11538/ST4/TP03/ S1 | 11538/ST4/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| beta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| delta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor Epoxide | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-Chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| alpha-chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan I | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan II | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDD | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDT | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan Sulphate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 92 | 84 | 92 | 93 | 93 |

Client Reference: 11538

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-25 | 265582-27 | 265582-29 |
| Your Reference | UNITS | 11538/ST4/TP07/ S1 | 11538/ST5/TP01/ S1 | 11538/ST5/TP03/ S1 | 11538/ST5/TP05/ S1 | 11538/ST5/TP07/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| beta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| delta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor Epoxide | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-Chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| alpha-chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan I | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan II | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDD | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDT | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan Sulphate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 93 | 85 | 89 | 89 |

Client Reference: 11538

| Organochlorine Pesticides in soil | | | | | |
|-----------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-31 | 265582-33 | 265582-35 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP01/ S1 | 11538/ST6/TP03/ S1 | 11538/ST6/TP05/ S1 | 11538/ST6/TP07/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| beta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| delta-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor Epoxide | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| gamma-Chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| alpha-chlordane | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan I | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan II | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDD | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| pp-DDT | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan Sulphate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 84 | 91 | 86 |

Client Reference: 11538

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-1 | 265582-4 | 265582-6 | 265582-8 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP01/ S1 | 11538/ST1/TP03/ S1 | 11538/ST1/TP05/ S1 | 11538/ST2/TP01/ S1 | 11538/ST2/TP03/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos-methyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fenitrothion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Malathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Bromophos-ethyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 82 | 90 | 77 | 92 | 92 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-12 | 265582-14 | 265582-15 | 265582-17 | 265582-19 |
| Your Reference | UNITS | 11538/ST2/TP05/ S1 | 11538/ST2/TP07/ S1 | 11538/ST4/TP01/ S1 | 11538/ST4/TP03/ S1 | 11538/ST4/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos-methyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fenitrothion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Malathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Bromophos-ethyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 92 | 84 | 92 | 93 | 93 |

Client Reference: 11538

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-25 | 265582-27 | 265582-29 |
| Your Reference | UNITS | 11538/ST4/TP07/S1 | 11538/ST5/TP01/S1 | 11538/ST5/TP03/S1 | 11538/ST5/TP05/S1 | 11538/ST5/TP07/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos-methyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fenitrothion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Malathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Bromophos-ethyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 93 | 85 | 89 | 89 |

| Organophosphorus Pesticides in Soil | | | | | |
|-------------------------------------|-------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-31 | 265582-33 | 265582-35 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP01/S1 | 11538/ST6/TP03/S1 | 11538/ST6/TP05/S1 | 11538/ST6/TP07/S1 |
| Type of sample | | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos-methyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Fenitrothion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Malathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyrifos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Bromophos-ethyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 84 | 91 | 86 |

Client Reference: 11538

| PCBs in Soil | | | | | | |
|----------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-1 | 265582-4 | 265582-6 | 265582-8 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP01/S1 | 11538/ST1/TP03/S1 | 11538/ST1/TP05/S1 | 11538/ST2/TP01/S1 | 11538/ST2/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1221 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1232 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1242 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1248 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1254 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1260 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 82 | 90 | 77 | 92 | 92 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-12 | 265582-14 | 265582-15 | 265582-17 | 265582-19 |
| Your Reference | UNITS | 11538/ST2/TP05/S1 | 11538/ST2/TP07/S1 | 11538/ST4/TP01/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP05/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1221 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1232 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1242 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1248 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1254 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1260 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 92 | 84 | 92 | 93 | 93 |

Client Reference: 11538

| PCBs in Soil | | | | | | |
|----------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-25 | 265582-27 | 265582-29 |
| Your Reference | UNITS | 11538/ST4/TP07/ S1 | 11538/ST5/TP01/ S1 | 11538/ST5/TP03/ S1 | 11538/ST5/TP05/ S1 | 11538/ST5/TP07/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1221 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1232 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1242 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1248 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1254 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1260 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 93 | 85 | 89 | 89 |

| PCBs in Soil | | | | | |
|----------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-31 | 265582-33 | 265582-35 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP01/ S1 | 11538/ST6/TP03/ S1 | 11538/ST6/TP05/ S1 | 11538/ST6/TP07/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1221 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1232 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1242 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1248 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1254 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Aroclor 1260 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 88 | 84 | 91 | 86 |

Client Reference: 11538

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|--------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-1 | 265582-2 | 265582-3 | 265582-4 | 265582-5 |
| Your Reference | UNITS | 11538/ST1/TP01/S1 | 11538/ST1/TP01/S1a | 11538/ST1/TP02/S1 | 11538/ST1/TP03/S1 | 11538/ST1/TP04/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | <4 | 6 | 5 | <4 | 8 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 15 | 24 | 16 | 11 | 23 |
| Copper | mg/kg | <1 | 1 | 3 | 6 | 3 |
| Lead | mg/kg | 7 | 12 | 10 | 14 | 13 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 1 | 2 | 2 | 4 | 2 |
| Zinc | mg/kg | 4 | 9 | 8 | 25 | 8 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-6 | 265582-7 | 265582-8 | 265582-9 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP05/S1 | 11538/ST1/TP06/S1 | 11538/ST2/TP01/S1 | 11538/ST2/TP02/S1 | 11538/ST2/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 4 | 5 | 4 | 5 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 13 | 14 | 10 | 20 | 8 |
| Copper | mg/kg | 3 | 3 | 10 | 10 | 8 |
| Lead | mg/kg | 7 | 10 | 9 | 7 | 7 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 2 | 2 | 6 | 19 | 4 |
| Zinc | mg/kg | 9 | 10 | 26 | 58 | 20 |
| Iron | mg/kg | 33,000 | [NA] | [NA] | [NA] | [NA] |

Client Reference: 11538

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-11 | 265582-12 | 265582-13 | 265582-14 | 265582-15 |
| Your Reference | UNITS | 11538/ST2/TP04/S1 | 11538/ST2/TP05/S1 | 11538/ST2/TP06/S1 | 11538/ST2/TP07/S1 | 11538/ST4/TP01/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 5 | 6 | 8 | 7 | 9 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 8 | 11 | 14 | 13 | 30 |
| Copper | mg/kg | 10 | 8 | 10 | 9 | 9 |
| Lead | mg/kg | 9 | 9 | 12 | 10 | 17 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 7 | 4 | 7 | 3 | 6 |
| Zinc | mg/kg | 29 | 20 | 27 | 17 | 16 |
| Iron | mg/kg | [NA] | 40,000 | [NA] | [NA] | [NA] |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-16 | 265582-17 | 265582-18 | 265582-19 | 265582-20 |
| Your Reference | UNITS | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 5 | 7 | 6 | 8 | 6 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 18 | 43 | 12 | 27 | 37 |
| Copper | mg/kg | 4 | 3 | 10 | 7 | 2 |
| Lead | mg/kg | 10 | 13 | 12 | 14 | 12 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 4 | 3 | 5 | 5 | 3 |
| Zinc | mg/kg | 13 | 6 | 19 | 15 | 7 |
| Iron | mg/kg | [NA] | [NA] | [NA] | 62,000 | [NA] |

Client Reference: 11538

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|-------------------|--------------------|-------------------|-------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-23 | 265582-24 | 265582-25 |
| Your Reference | UNITS | 11538/ST4/TP07/S1 | 11538/ST5/TP01/S1 | 11538/ST5/TP01/S1a | 11538/ST5/TP02/S1 | 11538/ST5/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 7 | 7 | 8 | 7 | 7 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 37 | 20 | 17 | 15 | 17 |
| Copper | mg/kg | 4 | 19 | 20 | 16 | 20 |
| Lead | mg/kg | 17 | 20 | 21 | 18 | 19 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 5 | 13 | 10 | 9 | 10 |
| Zinc | mg/kg | 9 | 47 | 41 | 69 | 39 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-26 | 265582-27 | 265582-28 | 265582-29 | 265582-30 |
| Your Reference | UNITS | 11538/ST5/TP04/S1 | 11538/ST5/TP05/S1 | 11538/ST5/TP06/S1 | 11538/ST5/TP07/S1 | 11538/ST5/TP08/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 4 | 7 | 6 | 8 | 6 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 9 | 15 | 13 | 16 | 14 |
| Copper | mg/kg | 13 | 20 | 15 | 12 | 14 |
| Lead | mg/kg | 10 | 20 | 15 | 13 | 16 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 5 | 9 | 7 | 7 | 8 |
| Zinc | mg/kg | 21 | 51 | 27 | 23 | 33 |
| Iron | mg/kg | [NA] | 43,000 | [NA] | [NA] | [NA] |

Client Reference: 11538

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-31 | 265582-32 | 265582-33 | 265582-34 | 265582-35 |
| Your Reference | UNITS | 11538/ST6/TP01/ S1 | 11538/ST6/TP02/ S1 | 11538/ST6/TP03/ S1 | 11538/ST6/TP04/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 6 | 4 | 6 | 8 | 7 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 34 | 18 | 33 | 19 | 12 |
| Copper | mg/kg | 21 | 26 | 6 | 14 | 18 |
| Lead | mg/kg | 15 | 22 | 16 | 15 | 16 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 26 | 21 | 7 | 13 | 10 |
| Zinc | mg/kg | 45 | 70 | 11 | 43 | 69 |
| Iron | mg/kg | [NA] | [NA] | [NA] | [NA] | 50,000 |

| Acid Extractable metals in soil | | | | | |
|---------------------------------|-------|-----------------------|-----------------------|---|---|
| Our Reference | | 265582-36 | 265582-37 | 265582-48 | 265582-49 |
| Your Reference | UNITS | 11538/ST6/TP06/ S1 | 11538/ST6/TP07/ S1 | 11538/ST1/TP01/ S1 - [TRIPLICATE] | 11538/ST6/TP01/ S1 - [TRIPLICATE] |
| Type of sample | | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 8 | 6 | 9 | 6 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 52 | 28 | 25 | 36 |
| Copper | mg/kg | 18 | 12 | 1 | 21 |
| Lead | mg/kg | 13 | 16 | 10 | 15 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 19 | 15 | 2 | 25 |
| Zinc | mg/kg | 35 | 26 | 14 | 37 |

Client Reference: 11538

| Moisture | | | | | | |
|----------------|-------|-------------------|--------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-1 | 265582-2 | 265582-3 | 265582-4 | 265582-5 |
| Your Reference | UNITS | 11538/ST1/TP01/S1 | 11538/ST1/TP01/S1a | 11538/ST1/TP02/S1 | 11538/ST1/TP03/S1 | 11538/ST1/TP04/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 11 | 10 | 19 | 15 | 13 |

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-6 | 265582-7 | 265582-8 | 265582-9 | 265582-10 |
| Your Reference | UNITS | 11538/ST1/TP05/S1 | 11538/ST1/TP06/S1 | 11538/ST2/TP01/S1 | 11538/ST2/TP02/S1 | 11538/ST2/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 10 | 14 | 15 | 9.5 | 14 |

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-11 | 265582-12 | 265582-13 | 265582-14 | 265582-15 |
| Your Reference | UNITS | 11538/ST2/TP04/S1 | 11538/ST2/TP05/S1 | 11538/ST2/TP06/S1 | 11538/ST2/TP07/S1 | 11538/ST4/TP01/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 14 | 15 | 11 | 14 | 19 |

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-16 | 265582-17 | 265582-18 | 265582-19 | 265582-20 |
| Your Reference | UNITS | 11538/ST4/TP02/S1 | 11538/ST4/TP03/S1 | 11538/ST4/TP04/S1 | 11538/ST4/TP05/S1 | 11538/ST4/TP06/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 8.7 | 8.2 | 13 | 12 | 10 |

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|--------------------|-------------------|-------------------|
| Our Reference | | 265582-21 | 265582-22 | 265582-23 | 265582-24 | 265582-25 |
| Your Reference | UNITS | 11538/ST4/TP07/S1 | 11538/ST5/TP01/S1 | 11538/ST5/TP01/S1a | 11538/ST5/TP02/S1 | 11538/ST5/TP03/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 15 | 13 | 14 | 14 | 7.1 |

Client Reference: 11538

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-26 | 265582-27 | 265582-28 | 265582-29 | 265582-30 |
| Your Reference | UNITS | 11538/ST5/TP04/S1 | 11538/ST5/TP05/S1 | 11538/ST5/TP06/S1 | 11538/ST5/TP07/S1 | 11538/ST5/TP08/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 13 | 14 | 7.3 | 14 | 13 |

| Moisture | | | | | | |
|----------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Our Reference | | 265582-31 | 265582-32 | 265582-33 | 265582-34 | 265582-35 |
| Your Reference | UNITS | 11538/ST6/TP01/S1 | 11538/ST6/TP02/S1 | 11538/ST6/TP03/S1 | 11538/ST6/TP04/S1 | 11538/ST6/TP05/S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Moisture | % | 13 | 11 | 8.5 | 12 | 11 |

| Moisture | | | |
|----------------|-------|-------------------|-------------------|
| Our Reference | | 265582-36 | 265582-37 |
| Your Reference | UNITS | 11538/ST6/TP06/S1 | 11538/ST6/TP07/S1 |
| Type of sample | | Soil | Soil |
| Date prepared | - | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 |
| Moisture | % | 9.7 | 11 |

Client Reference: 11538

| CEC | | | | | | |
|--------------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-6 | 265582-12 | 265582-19 | 265582-27 | 265582-35 |
| Your Reference | UNITS | 11538/ST1/TP05/ S1 | 11538/ST2/TP05/ S1 | 11538/ST4/TP05/ S1 | 11538/ST5/TP05/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 09/04/2021 | 09/04/2021 | 09/04/2021 | 09/04/2021 | 09/04/2021 |
| Date analysed | - | 09/04/2021 | 09/04/2021 | 09/04/2021 | 09/04/2021 | 09/04/2021 |
| Exchangeable Ca | meq/100g | 4.1 | 3.5 | 3.7 | 7.3 | 5.5 |
| Exchangeable K | meq/100g | 0.4 | 0.4 | 0.8 | 0.5 | 0.4 |
| Exchangeable Mg | meq/100g | 4.2 | 6.3 | 3.6 | 5.3 | 5.8 |
| Exchangeable Na | meq/100g | <0.1 | 0.30 | 0.10 | 0.16 | 0.12 |
| Cation Exchange Capacity | meq/100g | 8.8 | 10 | 8.1 | 13 | 12 |

Client Reference: 11538

| Misc Inorg - Soil | | | | | | |
|--------------------------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-6 | 265582-12 | 265582-19 | 265582-27 | 265582-35 |
| Your Reference | UNITS | 11538/ST1/TP05/ S1 | 11538/ST2/TP05/ S1 | 11538/ST4/TP05/ S1 | 11538/ST5/TP05/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Total Organic Carbon (Walkley Black) | mg/kg | 17,000 | 17,000 | 22,000 | 16,000 | 18,000 |
| pH 1:5 soil:CaCl ₂ | pH Units | 5.2 | 4.6 | 4.7 | 6.2 | 6.2 |

Client Reference: 11538

| Clay 50-120g | | | | | | |
|--------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Our Reference | | 265582-6 | 265582-12 | 265582-19 | 265582-27 | 265582-35 |
| Your Reference | UNITS | 11538/ST1/TP05/ S1 | 11538/ST2/TP05/ S1 | 11538/ST4/TP05/ S1 | 11538/ST5/TP05/ S1 | 11538/ST6/TP05/ S1 |
| Type of sample | | Soil | Soil | Soil | Soil | Soil |
| Date prepared | - | 08/04/2021 | 08/04/2021 | 08/04/2021 | 08/04/2021 | 08/04/2021 |
| Date analysed | - | 08/04/2021 | 08/04/2021 | 08/04/2021 | 08/04/2021 | 08/04/2021 |
| Clay in soils <2µm | % (w/w) | 20 | 26 | 20 | 28 | 27 |

Client Reference: 11538

| BTEX in Water | | | | | | |
|--------------------------------|-------|----------------|----------------|----------------|----------------|----------------|
| Our Reference | | 265582-38 | 265582-40 | 265582-42 | 265582-44 | 265582-46 |
| Your Reference | UNITS | 11538/ST1/RB01 | 11538/ST2/RB01 | 11538/ST4/RB01 | 11538/ST5/RB01 | 11538/ST6/RB01 |
| Type of sample | | Water | Water | Water | Water | Water |
| Date extracted | - | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 | 01/04/2021 |
| Date analysed | - | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 | 06/04/2021 |
| Benzene | µg/L | <1 | <1 | <1 | <1 | <1 |
| Toluene | µg/L | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | µg/L | <1 | <1 | <1 | <1 | <1 |
| m+p-xylene | µg/L | <2 | <2 | <2 | <2 | <2 |
| o-xylene | µg/L | <1 | <1 | <1 | <1 | <1 |
| Surrogate Dibromofluoromethane | % | 98 | 98 | 96 | 99 | 99 |
| Surrogate toluene-d8 | % | 102 | 101 | 98 | 100 | 103 |
| Surrogate 4-BFB | % | 99 | 103 | 101 | 100 | 100 |

Client Reference: 11538

| Method ID | Methodology Summary |
|---------------------|---|
| AS1289.3.6.3 | Determination Particle Size Analysis using AS1289.3.6.3 and AS1289.3.6.1 and in house method INORG-107. Clay fraction at <2µm reported. |
| Inorg-001 | pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times. |
| Inorg-008 | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours. |
| Inorg-036 | Total Organic Carbon or Matter - A titrimetric method that measures the oxidisable organic content of soils. |
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-020 | Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish. |
| Metals-021 | Determination of Mercury by Cold Vapour AAS. |
| Org-020 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. |
| Org-020 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40). |
| Org-021 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. |
| Org-021 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PCBs" is simply a sum of the positive individual PCBs. |
| Org-022 | Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS. |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. |
| Org-022/025 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT. |

Client Reference: 11538

| Method ID | Methodology Summary |
|--------------------|--|
| Org-022/025 | <p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. <p>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</p> |
| Org-023 | <p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.</p> |
| Org-023 | <p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> |
| Org-023 | <p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> <p>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.</p> |

Client Reference: 11538

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 06/04/2021 | 1 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | <25 | 1 | <25 | <25 | 0 | 122 | 106 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | <25 | 1 | <25 | <25 | 0 | 122 | 106 |
| Benzene | mg/kg | 0.2 | Org-023 | <0.2 | 1 | <0.2 | <0.2 | 0 | 105 | 87 |
| Toluene | mg/kg | 0.5 | Org-023 | <0.5 | 1 | <0.5 | <0.5 | 0 | 124 | 106 |
| Ethylbenzene | mg/kg | 1 | Org-023 | <1 | 1 | <1 | <1 | 0 | 121 | 110 |
| m+p-xylene | mg/kg | 2 | Org-023 | <2 | 1 | <2 | <2 | 0 | 130 | 114 |
| o-Xylene | mg/kg | 1 | Org-023 | <1 | 1 | <1 | <1 | 0 | 126 | 119 |
| naphthalene | mg/kg | 1 | Org-023 | <1 | 1 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | 126 | 1 | 127 | 123 | 3 | 119 | 121 |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|-----|---------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 12 | <25 | <25 | 0 | 114 | 113 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 12 | <25 | <25 | 0 | 114 | 113 |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 12 | <0.2 | <0.2 | 0 | 98 | 93 |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 12 | <0.5 | <0.5 | 0 | 110 | 113 |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 12 | <1 | <1 | 0 | 118 | 117 |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 12 | <2 | <2 | 0 | 122 | 121 |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 12 | <1 | <1 | 0 | 126 | 127 |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 12 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 12 | 130 | 118 | 10 | 114 | 118 |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|-----|---------|-------|-----------|------------|------------|------------------|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 21 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 21 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 21 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 21 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 21 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 21 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 21 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 21 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 21 | 122 | 130 | 6 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 31 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 31 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 31 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 31 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 31 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 31 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 31 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 31 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 31 | 130 | 123 | 6 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 06/04/2021 | 1 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | <50 | 1 | <50 | <50 | 0 | 122 | 127 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | <100 | 1 | <100 | <100 | 0 | 89 | 101 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | <100 | 1 | <100 | <100 | 0 | 92 | 94 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | <50 | 1 | <50 | <50 | 0 | 122 | 127 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | <100 | 1 | <100 | <100 | 0 | 89 | 101 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | <100 | 1 | <100 | <100 | 0 | 92 | 94 |
| Surrogate o-Terphenyl | % | | Org-020 | 84 | 1 | 97 | 85 | 13 | 124 | 86 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|---------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 08/04/2021 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 12 | <50 | <50 | 0 | 110 | 86 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 12 | <100 | <100 | 0 | 69 | 77 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 12 | <100 | <100 | 0 | 92 | 71 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 12 | <50 | <50 | 0 | 110 | 86 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 12 | <100 | <100 | 0 | 69 | 77 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 12 | <100 | <100 | 0 | 92 | 71 |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 12 | 79 | 86 | 8 | 121 | 98 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|---------|-------|-----------|------------|------------|------------------|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 07/04/2021 | 07/04/2021 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 21 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 21 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 21 | <100 | 150 | 40 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 21 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 21 | 110 | 160 | 37 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 21 | <100 | 120 | 18 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 21 | 81 | 77 | 5 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 07/04/2021 | 07/04/2021 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 31 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 31 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 31 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 31 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 31 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 31 | <100 | <100 | 0 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 31 | 73 | 78 | 7 | [NT] | [NT] |

Envirolab Reference: 265582
Revision No: R00

Page | 42 of 60

Client Reference: 11538

| QUALITY CONTROL: PAHs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 97 | 106 |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 89 | 103 |
| Fluorene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 114 | 112 |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 71 | 70 |
| Anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 104 | 107 |
| Pyrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 116 | 107 |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 96 | 106 |
| Benzo(b,j,k)fluoranthene | mg/kg | 0.2 | Org-022/025 | <0.2 | 1 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | <0.05 | 1 | <0.05 | <0.05 | 0 | 108 | 110 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | 99 | 1 | 81 | 113 | 33 | 81 | 71 |

| QUALITY CONTROL: PAHs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 106 | 110 |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 96 | 103 |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 88 | 118 |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 119 | 70 |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 104 | 111 |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 102 | 118 |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 112 | 102 |
| Benzo(b,j,k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 12 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 12 | <0.05 | <0.05 | 0 | 100 | 117 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 12 | 97 | 98 | 1 | 84 | 76 |

Client Reference: 11538

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j,k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 21 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 21 | <0.05 | <0.05 | 0 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 21 | 94 | 94 | 0 | [NT] | [NT] |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 08/04/2021 | 08/04/2021 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.2 | 0.1 | 67 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.5 | 0.2 | 86 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.4 | 0.2 | 67 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.2 | 0.1 | 67 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j,k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 31 | 0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 31 | 0.2 | 0.09 | 76 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | 0.2 | <0.1 | 67 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 31 | 95 | 123 | 26 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 110 | 103 |
| HCB | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 113 | 106 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 117 | 107 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 105 | 108 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 110 | 109 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 111 | 113 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 113 | 107 |
| Endrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 96 | 102 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 94 | 94 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 107 | 112 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 99 | 1 | 82 | 107 | 26 | 85 | 79 |

Client Reference: 11538

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 96 | 106 |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 104 | 106 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 105 | 107 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 92 | 108 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 95 | 114 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 99 | 115 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 99 | 113 |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 82 | 105 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 88 | 108 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 86 | 109 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 12 | 92 | 93 | 1 | 100 | 75 |

Client Reference: 11538

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 21 | 88 | 88 | 0 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 31 | 88 | 83 | 6 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|-------------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 112 | 120 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos-methyl | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 102 | 114 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 97 | 105 |
| Malathion | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 73 | 76 |
| Chlorpyrifos | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 113 | 111 |
| Parathion | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 107 | 108 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | 130 | 119 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 99 | 1 | 82 | 107 | 26 | 85 | 79 |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|-------------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 100 | 127 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 89 | 119 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 131 | 121 |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 135 | 83 |
| Chlorpyrifos | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 101 | 126 |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 118 | 125 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | 118 | 130 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 12 | 92 | 93 | 1 | 100 | 75 |

Client Reference: 11538

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 21 | 88 | 88 | 0 | [NT] | [NT] |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | Spike Recovery % | | |
|--|-------|-----|-------------|-------|----|------------|------------|------------------|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyrifos | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 31 | 88 | 83 | 6 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: PCBs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date extracted | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | 01/04/2021 | 1 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | 100 | 96 |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | 99 | 1 | 82 | 107 | 26 | 85 | 79 |

| QUALITY CONTROL: PCBs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date extracted | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Date analysed | - | | | [NT] | 12 | 01/04/2021 | 01/04/2021 | | 01/04/2021 | 01/04/2021 |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | 100 | 90 |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 12 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 12 | 92 | 93 | 1 | 100 | 75 |

| QUALITY CONTROL: PCBs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|-------|-----------|------------|------------|------------------|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 21 | 88 | 88 | 0 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: PCBs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 01/04/2021 | 01/04/2021 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 31 | 88 | 83 | 6 | [NT] | [NT] |

Envirolab Reference: 265582
Revision No: R00

Page | 52 of 60

Client Reference: 11538

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|------------|------------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-4 |
| Date prepared | - | | | 06/04/2021 | 1 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| Date analysed | - | | | 06/04/2021 | 1 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 4 | Metals-020 | <4 | 1 | <4 | 5 | 22 | 88 | 77 |
| Cadmium | mg/kg | 0.4 | Metals-020 | <0.4 | 1 | <0.4 | <0.4 | 0 | 89 | 71 |
| Chromium | mg/kg | 1 | Metals-020 | <1 | 1 | 15 | 19 | 24 | 87 | 105 |
| Copper | mg/kg | 1 | Metals-020 | <1 | 1 | <1 | 1 | 0 | 86 | 88 |
| Lead | mg/kg | 1 | Metals-020 | <1 | 1 | 7 | 9 | 25 | 88 | 85 |
| Mercury | mg/kg | 0.1 | Metals-021 | <0.1 | 1 | <0.1 | <0.1 | 0 | 97 | 99 |
| Nickel | mg/kg | 1 | Metals-020 | <1 | 1 | 1 | 2 | 67 | 87 | 71 |
| Zinc | mg/kg | 1 | Metals-020 | <1 | 1 | 4 | 28 | 150 | 97 | 82 |
| Iron | mg/kg | 10 | Metals-020 | <10 | 12 | 40000 | 29000 | 32 | 105 | ## |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|------------|-------|-----------|------------|------------|------------------|------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | 265582-22 |
| Date prepared | - | | | [NT] | 12 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| Date analysed | - | | | [NT] | 12 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | 06/04/2021 |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 12 | 6 | 5 | 18 | 87 | 71 |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 12 | <0.4 | <0.4 | 0 | 89 | 71 |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 12 | 11 | 9 | 20 | 87 | # |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 12 | 8 | 8 | 0 | 87 | 80 |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 12 | 9 | 8 | 12 | 89 | # |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 12 | <0.1 | <0.1 | 0 | 103 | 80 |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 12 | 4 | 4 | 0 | 86 | # |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 12 | 20 | 18 | 11 | 105 | # |
| Iron | mg/kg | 10 | Metals-020 | [NT] | [NT] | [NT] | [NT] | [NT] | 118 | ## |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|------------|-------|-----------|------------|------------|------------------|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 21 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 21 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 21 | 7 | 5 | 33 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 21 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 21 | 37 | 32 | 14 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 21 | 4 | 3 | 29 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 21 | 17 | 14 | 19 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 21 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 21 | 5 | 4 | 22 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 21 | 9 | 8 | 12 | [NT] | [NT] |

Client Reference: 11538

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 31 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 31 | 06/04/2021 | 06/04/2021 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 31 | 6 | 5 | 18 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 31 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 31 | 34 | 23 | 39 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 31 | 21 | 11 | 62 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 31 | 15 | 11 | 31 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 31 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 31 | 26 | 11 | 81 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 31 | 45 | 21 | 73 | [NT] | [NT] |

Envirolab Reference: 265582
Revision No: R00

Page | 54 of 60

Client Reference: 11538

| QUALITY CONTROL: CEC | | | | | | Duplicate | | | Spike Recovery % | |
|----------------------|----------|-----|------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | 265582-19 |
| Date prepared | - | | | 09/04/2021 | 6 | 09/04/2021 | 09/04/2021 | | 09/04/2021 | 09/04/2021 |
| Date analysed | - | | | 09/04/2021 | 6 | 09/04/2021 | 09/04/2021 | | 09/04/2021 | 09/04/2021 |
| Exchangeable Ca | meq/100g | 0.1 | Metals-020 | <0.1 | 6 | 4.1 | 4.0 | 2 | 127 | 114 |
| Exchangeable K | meq/100g | 0.1 | Metals-020 | <0.1 | 6 | 0.4 | 0.4 | 0 | 122 | 102 |
| Exchangeable Mg | meq/100g | 0.1 | Metals-020 | <0.1 | 6 | 4.2 | 4.1 | 2 | 125 | 108 |
| Exchangeable Na | meq/100g | 0.1 | Metals-020 | <0.1 | 6 | <0.1 | <0.1 | 0 | 114 | 101 |

Client Reference: 11538

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--------------------------------------|----------|------|-----------|------------|---|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-5 | [NT] |
| Date prepared | - | | | 06/04/2021 | 6 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | [NT] |
| Date analysed | - | | | 06/04/2021 | 6 | 06/04/2021 | 06/04/2021 | | 06/04/2021 | [NT] |
| Total Organic Carbon (Walkley Black) | mg/kg | 1000 | Inorg-036 | <1000 | 6 | 17000 | 16000 | 6 | 95 | [NT] |
| pH 1:5 soil:CaCl ₂ | pH Units | | Inorg-001 | [NT] | 6 | 5.2 | [NT] | | 102 | [NT] |

Envirolab Reference: 265582
Revision No: R00

Page | 56 of 60

Client Reference: 11538

| QUALITY CONTROL: BTEX in Water | | | | | Duplicate | | | | Spike Recovery % | |
|--------------------------------|-------|-----|---------|------------|-----------|------|------|------|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W3 | [NT] |
| Date extracted | - | | | 01/04/2021 | [NT] | [NT] | [NT] | [NT] | 01/04/2021 | [NT] |
| Date analysed | - | | | 06/04/2021 | [NT] | [NT] | [NT] | [NT] | 06/04/2021 | [NT] |
| Benzene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 116 | [NT] |
| Toluene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 113 | [NT] |
| Ethylbenzene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 112 | [NT] |
| m+p-xylene | µg/L | 2 | Org-023 | <2 | [NT] | [NT] | [NT] | [NT] | 111 | [NT] |
| o-xylene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 111 | [NT] |
| Surrogate Dibromofluoromethane | % | | Org-023 | 99 | [NT] | [NT] | [NT] | [NT] | 101 | [NT] |
| Surrogate toluene-d8 | % | | Org-023 | 101 | [NT] | [NT] | [NT] | [NT] | 103 | [NT] |
| Surrogate 4-BFB | % | | Org-023 | 101 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |

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

Quality Control Definitions

| | |
|--|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |
| Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Report Comments

Acid Extractable Metals in Soil:

- The laboratory RPD acceptance criteria has been exceeded for 265582-1 for Zn. Therefore a triplicate result has been issued as laboratory sample number 265582-48.
- The laboratory RPD acceptance criteria has been exceeded for 265582-31 for Cu, Ni & Zn. Therefore a triplicate result has been issued as laboratory sample number 265582-49.
- # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- # Percent recovery is not possible to report due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

PAH_S:

The RPD for duplicate results is accepted due to the non homogenous nature of sample/s 265582-31,31d.



To: Envirolab Services Pty Ltd
Address: 12 Ashley Street
CHATSWOOD NSW 2067
Phone: (02) 9910 6200
Facsimile: (02) 9910 6299

TAT: 5 Day TAT

Date: 31/3/21 1550

Received By:

Samples Recieved Chilled

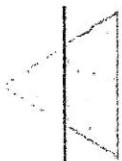
Samples Received at Ambient Temp.

Notes: Metals to be Analysed: As, Cd, Cr, Cu, Hg, Pb, Ni & Zn

[illegible]

COC Builder Soil - Envirolab

Chain Of Custody Page 1 Of 4



From: Getex Pty Ltd
Address: Building B, Unit 2
64 Talavera Road
MACQUARIE PARK NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: **Chris Chen**

Chain of Custody

To: Envirolab Services Pty Ltd
Address: 12 Ashley Street
CHATSWOOD NSW 2067
Phone: (02) 9910 6200
Facsimile: (02) 9910 6299

Date: 31/03/2021
Order Number: 7616
Project Number: 11538
TAT: 5 Day TAT

Date: 31/3/2021
Received By: 26538

☐ Samples Received at Ambient Temp. ☒ Samples Received Chilled

Notes: Metals to be Analysed: As, Cd, Cr, Cu, Hg, Pb, Ni & Zn

| Envirolab Barcode Number | Gerex Sample Number | Container | Soil | | | | | | | | | | | | | | | | | Compos and Non-Standard Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---------------------|-----------|-----------------|-------------|---------|-----|-----|-----|------|-------------|-----------|---------|----------|-----------|---------------|--------------------|------|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | Single Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | TRH/BTEX | PAH Routine | PAH Low | OCP | OPP | PCB | Lead | 4-17 Metals | Phenolics | Cyanide | Asbestos | TCLP Prep | Leachable PAH | 6 Leachable Metals | BTEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



To: Envirolab Services Pty Ltd
Address: 12 Ashley Street
CHATSWOOD NSW 2067
Phone: (02) 9910 6200
Facsimile: (02) 9910 6299

Date: 31/03/2021
Order Number: 7616
Project Number: 11538
TAT: 5 Day TAT

X313G

TAT: 5 Day TAT

Date: 31/3/2021

Received By:

Samples Recieved Chilled

Samples Received at Ambient Temp.

Notes: Metals to be Analysed: As, Cd, Cr, Cu, Hg, Pb, Ni & Zn

265582

[illegible]

COC Builder Soil - Envirolab

Chain Of Custody Page 3 Of 4



From: Getex Pty Ltd
Address: Building B, Unit 2
64 Talavera Road
MACQUARIE PARK NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: **Chris Chen**

TAT: 5 Day TAT

Samples Received at Ambient Temp.

Notes: Metals to be Analysed: As, Cd, Cr, Cu, Hg, Pb, Ni & Zn

[illegible]

Chain Of Custody Page 4 Of 4



Envirolab Services Pty Ltd
 ABN 37 112 535 645
 12 Ashley St Chatswood NSW 2067
 ph 02 9910 6200 fax 02 9910 6201
 customerservice@envirolab.com.au
 www.envirolab.com.au

SAMPLE RECEIPT ADVICE

| Client Details | |
|------------------|---------------|
| Client | Getex Pty Ltd |
| Attention | Chris Chen |

| Sample Login Details | |
|---|------------|
| Your reference | 11538 |
| Envirolab Reference | 265582 |
| Date Sample Received | 31/03/2021 |
| Date Instructions Received | 31/03/2021 |
| Date Results Expected to be Reported | 09/04/2021 |

| Sample Condition | |
|---|------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 42 Soil, 5 Water |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 4 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

| Comments | |
|----------|--|
| Nil | |

Please direct any queries to:

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

Analysis Underway, details on the following page:

| Sample ID | VTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | Organophosphorus Pesticides in Soil | PCBs in Soil | Acid Extractable metals in soil | CEC | Misc Inorg - Soil | Clay 50-120g | BTEX in Water |
|--------------------|----------------------------|-------------------------|--------------|-----------------------------------|-------------------------------------|--------------|---------------------------------|-----|-------------------|--------------|---------------|
| 11538/ST1/TP01/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST1/TP01/S1a | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST1/TP02/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST1/TP03/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST1/TP04/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST1/TP05/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 11538/ST1/TP06/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST2/TP01/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST2/TP02/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST2/TP03/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST2/TP04/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST2/TP05/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 11538/ST2/TP06/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST2/TP07/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST4/TP01/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST4/TP02/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST4/TP03/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST4/TP04/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST4/TP05/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 11538/ST4/TP06/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST4/TP07/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST5/TP01/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST5/TP01/S1a | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST5/TP02/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST5/TP03/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST5/TP04/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST5/TP05/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 11538/ST5/TP06/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST5/TP07/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST5/TP08/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST6/TP01/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST6/TP02/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |

| Sample ID | vTRH(C6-C10)/BTXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | Organophosphorus Pesticides in Soil | PCBs in Soil | Acid Extractable metals in soil | CEC | Misc Inorg - Soil | Clay 50-120g | BTEX in Water |
|-------------------|---------------------------|-------------------------|--------------|-----------------------------------|-------------------------------------|--------------|---------------------------------|-----|-------------------|--------------|---------------|
| 11538/ST6/TP03/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST6/TP04/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST6/TP05/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 11538/ST6/TP06/S1 | ✓ | ✓ | ✓ | | | | ✓ | | | | |
| 11538/ST6/TP07/S1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 11538/ST1/RB01 | | | | | | | | | | | ✓ |
| 11538/ST1/TB01 | ✓ | | | | | | | | | | |
| 11538/ST2/RB01 | | | | | | | | | | | ✓ |
| 11538/ST2/TB01 | ✓ | | | | | | | | | | |
| 11538/ST4/RB01 | | | | | | | | | | | ✓ |
| 11538/ST4/TB01 | ✓ | | | | | | | | | | |
| 11538/ST5/RB01 | | | | | | | | | | | ✓ |
| 11538/ST5/TB01 | ✓ | | | | | | | | | | |
| 11538/ST6/RB01 | | | | | | | | | | | ✓ |
| 11538/ST6/TB01 | ✓ | | | | | | | | | | |

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

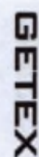
Additional Info

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

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

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

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



64 Talavera Road

Phone: (02) 9889 2488

Facsimile: (02) 9889 2499

Email: help@getex.com.au

Attention: **Chris Chen**

☐ Samples Received Chilled

Received By
Signature

Date: 3/13

To: Eurofins | mgt

Address: Unit F3, Building F

16 Mars Road

LANE COVE WEST NSW 2066

Phone: (02) 9900 8400

Email: EnviroSampleNSW@eurofins.com.au

Date: 31/03/2021

Order Number: 7617

Project Number: 11538

TAT: 5 Day TAT

Notes: Metals to be Analysed: As, Cd, Cr, Cu, Hg, Pb, Ni & Zn

[illegible]

COC Builder Soils & Water - Eurofins

7841137

Chain Of Custody Page 1 Of 1

Australia

Melbourne

6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle

4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland

35 O'Rourke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch

43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name: Getex Pty Ltd
Contact name: Chris Chen
Project name: Not provided
Project ID: 11537
Turnaround time: 5 Day
Date/Time received: Mar 31, 2021 3:00 PM
Eurofins reference: 784437

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Asim Khan on phone : or by email: AsimKhan@eurofins.com

Results will be delivered electronically via email to Chris Chen - chris.chen@getex.com.au.

Note: A copy of these results will also be delivered to the general Getex Pty Ltd email address.

Getex Pty Ltd
Unit 2, Building B, 64 Talavera Road
Macquarie Park
NSW 2113



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection and proficiency testing scheme providers
reports.

Attention: Chris Chen

Report 784437-S
Project name
Project ID 11537
Received Date Mar 31, 2021

| Client Sample ID | | | 11538/ST1/TP0 1/S1B | 11538/ST5/TP0 1/S1B |
|---|-----|-------|------------------------|------------------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S21-Ma58558 | S21-Ma58559 |
| Date Sampled | | | Mar 29, 2021 | Mar 30, 2021 |
| Test/Reference | LOR | Unit | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | 67 |
| TRH C29-C36 | 50 | mg/kg | < 50 | 54 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 121 |
| BTEX | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 134 | 111 |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 |
| Polycyclic Aromatic Hydrocarbons | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 |

| | | | | |
|---|-----|-------|--------------------------------|--------------------------------|
| Client Sample ID | | | 11538/ST1/TP0 1/S1B | 11538/ST5/TP0 1/S1B |
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S21-Ma58558 | S21-Ma58559 |
| Date Sampled | | | Mar 29, 2021 | Mar 30, 2021 |
| Test/Reference | LOR | Unit | | |
| Polycyclic Aromatic Hydrocarbons | | | | |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 98 | 95 |
| p-Terphenyl-d14 (surr.) | 1 | % | 99 | 102 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 14 | 7.5 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 47 | 18 |
| Copper | 5 | mg/kg | < 5 | 19 |
| Lead | 5 | mg/kg | 18 | 20 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | 13 |
| Zinc | 5 | mg/kg | 6.4 | 51 |
| | | | | |
| % Moisture | 1 | % | 12 | 17 |

Sample History

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

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Apr 07, 2021 | 14 Days |
| BTEX - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Apr 07, 2021 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Apr 07, 2021 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Sydney | Apr 07, 2021 | 14 Days |
| Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Sydney | Apr 07, 2021 | 14 Days |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Sydney | Apr 07, 2021 | 180 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Sydney | Mar 31, 2021 | 14 Days |



Environment Testing

Australia

Melbourne

6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

New Zealand

Auckland

35 O'Rourke Road
Pentrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch

43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: Getex Pty Ltd
Address: Unit 2, Building B, 64 Talavera Road
Macquarie Park
NSW 2113

Project Name:
Project ID: 11537

Order No.: 7617
Report #: 784437
Phone: 02 9889 2488
Fax: 02 9889 2499

Received: Mar 31, 2021 3:00 PM
Due: Apr 9, 2021
Priority: 5 Day
Contact Name: Chris Chen

Eurofins Analytical Services Manager : Asim Khan

| Sample Detail | | | | | Eurofins Suite B7 | |
|---|------------------------|--------------|---------------|--------|-------------------|---|
| | | | | | Moisture Set | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | |
| Sydney Laboratory - NATA Site # 18217 | | | | | X | X |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | |
| Mayfield Laboratory | | | | | | |
| External Laboratory | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | |
| 1 | 11538/ST1/TP 01/S1B | Mar 29, 2021 | | Soil | S21-Ma58558 | X |
| 2 | 11538/ST5/TP 01/S1B | Mar 30, 2021 | | Soil | S21-Ma58559 | X |
| Test Counts | | | | | | |
| | | | | | 2 | 2 |

Date Reported: Apr 08, 2021

Eurofins Environment Testing Unit F3, Building F, 16 Mars Road, Lane Cove West, NSW, Australia, 2066

ABN : 50 005 085 521 Telephone: +61 2 9900 8400

Page 4 of 10

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | US Department of Defense Quality Systems Manual Version 5.3 |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

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

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Method Blank | | | | | | | |
| BTEX | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| Method Blank | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g,h,i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a,h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| LCS - % Recovery | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | | |
| TRH C6-C9 | % | 92 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | |
|--|--|---------------|-----------|----------|----------|--|-------------------|-------------------|-----------------|-----------------|
| TRH C10-C14 | | | % | 119 | | | 70-130 | Pass | | |
| LCS - % Recovery | | | | | | | | | | |
| BTEX | | | | | | | | | | |
| Benzene | | | % | 95 | | | 70-130 | Pass | | |
| Toluene | | | % | 100 | | | 70-130 | Pass | | |
| Ethylbenzene | | | % | 94 | | | 70-130 | Pass | | |
| m&p-Xylenes | | | % | 93 | | | 70-130 | Pass | | |
| o-Xylene | | | % | 93 | | | 70-130 | Pass | | |
| Xylenes - Total* | | | % | 93 | | | 70-130 | Pass | | |
| LCS - % Recovery | | | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | | | | | |
| Naphthalene | | | % | 119 | | | 70-130 | Pass | | |
| TRH C6-C10 | | | % | 88 | | | 70-130 | Pass | | |
| TRH >C10-C16 | | | % | 118 | | | 70-130 | Pass | | |
| LCS - % Recovery | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Acenaphthene | | | % | 100 | | | 70-130 | Pass | | |
| Acenaphthylene | | | % | 110 | | | 70-130 | Pass | | |
| Anthracene | | | % | 110 | | | 70-130 | Pass | | |
| Benz(a)anthracene | | | % | 103 | | | 70-130 | Pass | | |
| Benzo(a)pyrene | | | % | 87 | | | 70-130 | Pass | | |
| Benzo(b&j)fluoranthene | | | % | 83 | | | 70-130 | Pass | | |
| Benzo(g.h.i)perylene | | | % | 95 | | | 70-130 | Pass | | |
| Benzo(k)fluoranthene | | | % | 98 | | | 70-130 | Pass | | |
| Chrysene | | | % | 100 | | | 70-130 | Pass | | |
| Dibenz(a.h)anthracene | | | % | 102 | | | 70-130 | Pass | | |
| Fluoranthene | | | % | 108 | | | 70-130 | Pass | | |
| Fluorene | | | % | 105 | | | 70-130 | Pass | | |
| Indeno(1.2.3-cd)pyrene | | | % | 104 | | | 70-130 | Pass | | |
| Naphthalene | | | % | 98 | | | 70-130 | Pass | | |
| Phenanthrene | | | % | 103 | | | 70-130 | Pass | | |
| Pyrene | | | % | 102 | | | 70-130 | Pass | | |
| LCS - % Recovery | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | |
| Arsenic | | | % | 97 | | | 80-120 | Pass | | |
| Cadmium | | | % | 98 | | | 80-120 | Pass | | |
| Chromium | | | % | 100 | | | 80-120 | Pass | | |
| Copper | | | % | 97 | | | 80-120 | Pass | | |
| Lead | | | % | 96 | | | 80-120 | Pass | | |
| Mercury | | | % | 107 | | | 80-120 | Pass | | |
| Nickel | | | % | 101 | | | 80-120 | Pass | | |
| Zinc | | | % | 105 | | | 80-120 | Pass | | |
| Test | | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | Result 1 | | | | | |
| TRH C6-C9 | | S21-Ma55258 | NCP | % | 85 | | | 70-130 | Pass | |
| TRH C10-C14 | | S21-Ap03122 | NCP | % | 71 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | | |
| BTEX | | | | | Result 1 | | | | | |
| Benzene | | S21-Ma55258 | NCP | % | 82 | | | 70-130 | Pass | |
| Toluene | | S21-Ma55258 | NCP | % | 94 | | | 70-130 | Pass | |
| Ethylbenzene | | S21-Ma55258 | NCP | % | 87 | | | 70-130 | Pass | |
| m&p-Xylenes | | S21-Ma55258 | NCP | % | 84 | | | 70-130 | Pass | |
| o-Xylene | | S21-Ma55258 | NCP | % | 85 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Xylenes - Total* | S21-Ma55258 | NCP | % | 85 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | | | | | |
| Naphthalene | S21-Ma55258 | NCP | % | 109 | | | 70-130 | Pass | |
| TRH C6-C10 | S21-Ma55258 | NCP | % | 85 | | | 70-130 | Pass | |
| TRH >C10-C16 | S21-Ap03122 | NCP | % | 71 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | | | |
| Acenaphthene | S21-Ma58417 | NCP | % | 91 | | | 70-130 | Pass | |
| Acenaphthylene | S21-Ma58417 | NCP | % | 96 | | | 70-130 | Pass | |
| Anthracene | S21-Ma58417 | NCP | % | 93 | | | 70-130 | Pass | |
| Benz(a)anthracene | S21-Ma58417 | NCP | % | 94 | | | 70-130 | Pass | |
| Benzo(a)pyrene | S21-Ma58417 | NCP | % | 71 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S21-Ma53567 | NCP | % | 118 | | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | S21-Ma58417 | NCP | % | 73 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S21-Ma58417 | NCP | % | 90 | | | 70-130 | Pass | |
| Chrysene | S21-Ma58417 | NCP | % | 76 | | | 70-130 | Pass | |
| Fluoranthene | S21-Ma58417 | NCP | % | 105 | | | 70-130 | Pass | |
| Fluorene | S21-Ma58417 | NCP | % | 95 | | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | S21-Ma58417 | NCP | % | 82 | | | 70-130 | Pass | |
| Naphthalene | S21-Ma58417 | NCP | % | 96 | | | 70-130 | Pass | |
| Phenanthrene | S21-Ma58417 | NCP | % | 95 | | | 70-130 | Pass | |
| Pyrene | S21-Ma58417 | NCP | % | 96 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Arsenic | S21-Ma58439 | NCP | % | 103 | | | 75-125 | Pass | |
| Cadmium | S21-Ma58439 | NCP | % | 99 | | | 75-125 | Pass | |
| Chromium | S21-Ma58439 | NCP | % | 101 | | | 75-125 | Pass | |
| Copper | S21-Ma58439 | NCP | % | 97 | | | 75-125 | Pass | |
| Lead | S21-Ma58439 | NCP | % | 100 | | | 75-125 | Pass | |
| Mercury | S21-Ma58439 | NCP | % | 112 | | | 75-125 | Pass | |
| Nickel | S21-Ma58439 | NCP | % | 101 | | | 75-125 | Pass | |
| Zinc | S21-Ma58439 | NCP | % | 92 | | | 75-125 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | | | |
| Dibenz(a,h)anthracene | S21-Ap04863 | NCP | % | 101 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S21-Ma57747 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C10-C14 | S21-Ap03424 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | S21-Ap03424 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | S21-Ap03424 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| BTEX | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S21-Ma57747 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S21-Ma57747 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S21-Ma57747 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S21-Ma57747 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S21-Ma57747 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S21-Ma57747 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|--|-------------|-----|-------|--|----------|----------|-----|----------|
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | Result 1 | Result 2 | RPD | |
| Naphthalene | S21-Ma57747 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| TRH C6-C10 | S21-Ma57747 | NCP | mg/kg | | < 20 | < 20 | <1 | 30% Pass |
| TRH >C10-C16 | S21-Ap03424 | NCP | mg/kg | | < 50 | < 50 | <1 | 30% Pass |
| TRH >C16-C34 | S21-Ap03424 | NCP | mg/kg | | < 100 | < 100 | <1 | 30% Pass |
| TRH >C34-C40 | S21-Ap03424 | NCP | mg/kg | | < 100 | < 100 | <1 | 30% Pass |
| Duplicate | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | Result 1 | Result 2 | RPD | |
| Acenaphthene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Acenaphthylene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Anthracene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Benz(a)anthracene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Benzo(a)pyrene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Benzo(b&j)fluoranthene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Benzo(g,h,i)perylene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Benzo(k)fluoranthene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Chrysene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Dibenz(a,h)anthracene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Fluoranthene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Fluorene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Indeno(1,2,3-cd)pyrene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Naphthalene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Phenanthrene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Pyrene | S21-Ap09504 | NCP | mg/kg | | < 0.5 | < 0.5 | <1 | 30% Pass |
| Duplicate | | | | | | | | |
| | | | | | Result 1 | Result 2 | RPD | |
| % Moisture | S21-Ma58564 | NCP | % | | 16 | 16 | 1.0 | 30% Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | | Result 1 | Result 2 | RPD | |
| Arsenic | S21-Ma58559 | CP | mg/kg | | 7.5 | 7.7 | 3.0 | 30% Pass |
| Cadmium | S21-Ma58559 | CP | mg/kg | | < 0.4 | < 0.4 | <1 | 30% Pass |
| Chromium | S21-Ma58559 | CP | mg/kg | | 18 | 17 | 2.0 | 30% Pass |
| Copper | S21-Ma58559 | CP | mg/kg | | 19 | 20 | 3.0 | 30% Pass |
| Lead | S21-Ma58559 | CP | mg/kg | | 20 | 23 | 13 | 30% Pass |
| Mercury | S21-Ma58559 | CP | mg/kg | | < 0.1 | < 0.1 | <1 | 30% Pass |
| Nickel | S21-Ma58559 | CP | mg/kg | | 13 | 12 | 8.0 | 30% Pass |
| Zinc | S21-Ma58559 | CP | mg/kg | | 51 | 54 | 5.0 | 30% Pass |

Comments
Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

| | |
|-----------------|------------------------------|
| Asim Khan | Analytical Services Manager |
| Andrew Sullivan | Senior Analyst-Organic (NSW) |
| John Nguyen | Senior Analyst-Metal (NSW) |



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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



CHAIN OF CUSTODY FORM

From: Getex Pty Ltd
Address: Building B, Unit 2
64 Talavera Road
Macquarie Park NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: Chris Chen

To: Australian Safer Environment &
Technology Pty Ltd
Address: Unit 10 Level 7, 90 George Street
Hornsby NSW 2077
Phone: (02) 99872183
Facsimile: (02) 99872151

Date: 31/03/2021
Order No.: 7618
Project No.: 11538

TAT Required: 5 Day TAT

ASET92243/95423/1-29

☐ Samples received at ambient temperature

☐ Samples received chilled

Received by (signature)

Date: 31/3/21

| ASET Reference Number | GETEX Sample Number | Container Plastic Tube – PT Bag – B Petri Dish – PD Plastic Bottle – PB Glass Jar – GJ Glass Bottle – GB Glass Vial – GV | Analysis Required | | | | | | |
|-----------------------------|------------------------|---|---------------------------|------------------|----------------------|----------------------------|-------------------|---------------|---|
| | | | Asbestos in Soil (NEM) | Asbestos in Dust | Asbestos in Material | Asbestos Fibre Counting | Asbestos in Vinyl | Weight of ACM | Asbestos in Materials (presence/absence) |
| 1 | 11538/ST1/TP02/AS01 | B | X | | | | | | |
| 2 | 11538/ST1/TP04/AS02 | B | | | X | | | X | |
| 3 | 11538/ST1/TP03/AS01 | B | X | | | | | | |
| 4 | 11538/ST1/TP04/AS01 | B | X | | | | | | |
| 5 | 11538/ST1/TP05/AS01 | B | X | | | | | | |
| 6 | 11538/ST1/TP06/AS01 | B | X | | | | | | |
| 7 | 11538/ST2/TP02/AS01 | B | X | | | | | | |
| 8 | 11538/ST2/TP03/AS01 | B | X | | | | | | |
| 9 | 11538/ST2/TP04/AS01 | B | X | | | | | | |
| 10 | 11538/ST2/TP05/AS01 | B | X | | | | | | |
| 11 | 11538/ST2/TP06/AS01 | B | X | | | | | | |
| 12 | 11538/ST4/TP02/AS01 | B | X | | | | | | |
| Total | | | 11 | 1 | | | | 1 | |



From: Getex Pty Ltd
Address: Building B, Unit 2
64 Talavera Road
Macquarie Park NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: Chris Chen

CHAIN OF CUSTODY FORM

To: Australian Safer Environment &
Technology Pty Ltd
Address: Unit 10 Level 7, 90 George Street
Hornsby NSW 2077
Phone: (02) 99872183
Facsimile: (02) 99872151
TAT Required: 5 Day TAT

Date: 26/03/2021
Order No.: 2608
Project No.: 11539

☐ Samples received at ambient temperature ☐ Samples received chilled ☐ Received by (signature)  Date: 31/3/21

| ASET Reference Number | GETEX Sample Number | Container | Analysis Required | | | | | | | | | |
|-----------------------------|------------------------|------------------------------|----------------------------|------------------|----------------------|----------------------------|-------------------|---------------|---|--|--|--|
| | | | Asbestos in Soil (NEPM) | Asbestos in Dust | Asbestos in Material | Asbestos Fibre Counting | Asbestos in Vinyl | Weight of ACM | Asbestos in Materials (presence/absence) | | | |
| 13 | 11538/ST4/TP03/AS01 | Plastic Tube - PT Bag - B | X | | | | | | | | | |
| 14 | 11538/ST4/TP04/AS01 | Petri Dish - PD | X | | | | | | | | | |
| 15 | 11538/ST4/TP05/AS01 | Plastic Bottle - PB | X | | | | | | | | | |
| 16 | 11538/ST4/TP06/AS01 | Glass Jar - GJ | X | | | | | | | | | |
| 17 | 11538/ST5/TP02/AS01 | Glass Bottle - GB | X | | | | | | | | | |
| 18 | 11538/ST5/TP03/AS01 | Glass Vial - GV | X | | | | | | | | | |
| 19 | 11538/ST5/TP04/AS01 | | X | | | | | | | | | |
| 20 | 11538/ST5/TP05/AS01 | | X | | | | | | | | | |
| 21 | 11538/ST5/TP06/AS01 | | X | | | | | | | | | |
| 22 | 11538/ST6/TP02/AS01 | | X | | | | | | | | | |
| 23 | 11538/ST6/TP02/AS02 | | | | X | | | X | | | | |
| 24 | 11538/ST6/TP03/AS01 | | X | | | | | | | | | |
| | | Total | 11 | 1 | 1 | | | 1 | | | | |

RECEIVED
31 MAR 2021
BY: 

$\frac{3}{3}$

From: Getex Pty Ltd
Address: Building B, Unit 2
 64 Talavera Road
 Macquarie Park NSW 2113
Phone: (02) 9889 2488
Facsimile: (02) 9889 2499
Email: help@getex.com.au
Attention: Chris Chen

To: Australian Safer Environment & Technology Pty Ltd
Address: Unit 10 Level 7, 90 George Street
 Hornsby NSW 2077
Phone: (02) 99872183
Facsimile: (02) 99872151

Date: 26/03/2021
Order No.: 2608
Project No.: 11539

TAT Required: 5 Day TAT

| | | | | |
|--------------------------|---|-------------------------------------|--------------------------|---------------|
| <input type="checkbox"/> | Samples received at ambient temperature | <input checked="" type="checkbox"/> | Samples received chilled | Date: 31/3/21 |
| | | | Received by (signature) | |

[illegible]



APPENDIX X

QA/QC

QUALITY ASSURANCE/QUALITY CONTROL

The sampling and analysis program included, for Quality Assurance / Quality Control (QA/QC) purposes, the analysis of blind and split replicate samples. For soil sampling one blind and one split replicate was taken for TRH, BTEX, PAHs and Metals. The primary and blind replicate samples were sent to the same laboratory (EnviroLab Services Pty Ltd) and the split replicate was sent to independent laboratories (Eurofins | mgt).

The data quality objective was defined as an acceptable relative percentage difference (RPD) between the primary and blind or split sample of 30% - 50%. This variation can be expected to be higher for organic analysis than for inorganics, and for low concentration of analytes. However a higher RPD was considered to be acceptable in cases where the analytical result was less than three times the laboratory's lower limit of reporting, or where the analytical result was less than 10% of the acceptance criteria. In these situations a large RPD value that has little significance.

The RPD is a measure of precision that was calculated by dividing the difference of two laboratory reported values by the average of those values, multiplied by 100.

$$\text{I.e. RPD} = (X_1 - X_2) / X_{\text{ave}} \times 100$$

Where:

X_1 = concentration observed with the first detector or equipment;

X_2 = concentration observed with the second detector, equipment, or absolute value; and

X_{ave} = average concentration = $[(X_1 + X_2) / 2]$

The Laboratory QA/QC procedure must comply with the following minimum requirements:

- At least one blank every 20 samples
- At least one Laboratory control sample every 20 samples
- At least one duplicate every 10 samples
- At least one matrix spike every 20 samples

The assessment of the laboratory analytical data also included the following conditions:

- Maximum sample holding times for organics were 14 days. Metals and 1etalloids holding times were 6 months. Mercury (Hg) holding times was 28 days;
- Sample preservation and handling were conducted in accordance with industry accepted standards;
- All sample analyses were conducted by NATA accredited laboratories;
- Laboratory blank analysis to be below PQLs; and
- The relative percentage difference (RPD) of duplicates/replicates and percent recoveries of control spikes to be calculated and compared to the following criteria:
 - Less than 30% for field replicates;
 - Less than 40% for internal duplicate samples and less than 44% on duplicates with 10 times the limit of reporting; and
 - 75-125% recovery for internal recovery samples.

Soil QA/QC

| Analyte | Analyte Concentration Totals (mg/kg) | | | Relative Percentage Difference of Blind Replicate | Relative Percentage Difference of Split Replicate |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|
| Sample Number | 11538/ST1/TP01/S1 | 11538/ST1/TP01/S1a | 11538/ST1/TP01/S1b | % | % |
| Laboratory | Envirolab Services Pty Ltd | Envirolab Services Pty Ltd | Eurofins mgt | - | - |
| Replicate Description | Primary Sample | Blind Replicate of 11538/ST1/TP01/S1 | Split Replicate of 11538/ST1/TP01/S1 | - | - |
| TRH C6 - C9 | <25 | <25 | <20 | 0% | 22% |
| TRH C6 - C10 | <25 | <25 | <20 | 0% | 22% |
| vTPH C6 - C10 less BTEX (F1) | <25 | <25 | <20 | 0% | 22% |
| Benzene | <0.2 | <0.2 | <0.1 | 0% | 67%* |
| Toluene | <0.5 | <0.5 | <0.1 | 0% | 133%* |
| Ethylbenzene | <1 | <1 | <0.1 | 0% | 164%* |
| m+p-xylene | <2 | <2 | <0.2 | 0% | 164%* |
| o-Xylene | <1 | <1 | <0.1 | 0% | 164%* |
| naphthalene | <1 | <1 | <0.5 | 0% | 67%* |
| Total +ve Xylenes | <3 | <3 | <0.3 | 0% | 164%* |
| TRH C10 - C14 | <50 | <50 | <20 | 0% | 86%* |
| TRH C15 - C28 | <100 | <100 | <50 | 0% | 67%* |
| TRH C29 - C36 | <100 | <100 | <50 | 0% | 67%* |
| TRH >C10-C16 | <50 | <50 | <50 | 0% | 0% |
| TRH >C10 - C16 less Naphthalene (F2) | <50 | <50 | <50 | 0% | 0% |
| TRH >C16-C34 | <100 | <100 | <100 | 0% | 0% |
| TRH >C34-C40 | <100 | <100 | <100 | 0% | 0% |
| Total +ve TRH (>C10-C40) | <50 | <50 | <100 | 0% | 67%* |
| Naphthalene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Acenaphthylene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Acenaphthene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Fluorene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Phenanthrene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Anthracene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Fluoranthene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Pyrene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Benzo(a)anthracene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Chrysene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Benzo(b,j+k)fluoranthene | <0.2 | <0.2 | < 0.5 | 0% | 86%* |
| Benzo(a)pyrene | <0.05 | <0.05 | < 0.5 | 0% | 164%* |
| Indeno(1,2,3-c,d)pyrene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Dibenzo(a,h)anthracene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |

| Analyte | Analyte Concentration Totals (mg/kg) | | | Relative Percentage Difference of Blind Replicate | Relative Percentage Difference of Split Replicate |
|--------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|
| Sample Number | 11538/ST1/TP01/S1 | 11538/ST1/TP01/S1a | 11538/ST1/TP01/S1b | % | % |
| Laboratory | EnviroLab Services Pty Ltd | EnviroLab Services Pty Ltd | Eurofins mgt | - | - |
| Replicate Description | Primary Sample | Blind Replicate of 11538/ST1/TP01/S1 | Split Replicate of 11538/ST1/TP01/S1 | - | - |
| Benzo(g,h,i)perylene | <0.1 | <0.1 | < 0.5 | 0% | 133%* |
| Total +ve PAH's | <0.05 | <0.05 | < 0.5 | 0% | 164%* |
| Benzo(a)pyrene TEQ calc (zero) | <0.5 | <0.5 | < 0.5 | 0% | 0% |
| Benzo(a)pyrene TEQ calc(half) | <0.5 | <0.5 | 0.6 | 0% | 18% |
| Benzo(a)pyrene TEQ calc(PQL) | <0.5 | <0.5 | 1.2 | 0% | 82%* |
| Arsenic | <4 | 6 | 14 | 40%* | 111% [^] |
| Cadmium | <0.4 | <0.4 | <0.4 | 0% | 0% |
| Chromium | 15 | 24 | 47 | 46% | 103% [^] |
| Copper | <1 | 1 | <5 | 0% | 133%* |
| Lead | 7 | 12 | 18 | 53% [^] | 88% [^] |
| Mercury | <0.1 | <0.1 | <0.1 | 0% | 0% |
| Nickel | 1 | 2 | <5 | 67%* | 133%* |
| Zinc | 4 | 9 | 6.4 | 77% [^] | 46% [^] |

*Results less than three times the laboratory detection limits

[^]Results less than 10% of the acceptance criteria

Trip Blank and Rinsate Blank

To ensure accuracy of the sampling techniques, one trip blank was carried during soil sampling and one rinsate sample was collected during soil sampling.

Results for the rinsate sample is considered acceptable as results are below laboratory PQLs.

| Rinsate Blank | | Sample Number | 11538/ST4/RB01 |
|---------------|-------|---------------|----------------|
| ANALYTE | Units | PQL | |
| Benzene | µg/L | 1 | <1 |
| Toluene | µg/L | 1 | <1 |
| Ethylbenzene | µg/L | 1 | <1 |
| m+p-xylene | µg/L | 2 | <2 |
| o-Xylene | µg/L | 1 | <1 |

Results for the trip blank is considered acceptable as results are below laboratory PQLs.

| Trip Blank | | Sample Number | 11539/ST4/TB01 |
|--------------|-------|---------------|----------------|
| ANALYTE | Units | PQL | |
| Benzene | mg/kg | 0.2 | <0.2 |
| Toluene | mg/kg | 0.5 | <0.5 |
| Ethylbenzene | mg/kg | 1 | <1 |
| m+p-xylene | mg/kg | 2 | <2 |
| o-Xylene | mg/kg | 1 | <1 |
| naphthalene | mg/kg | 1 | <1 |

Laboratory QA/QC

EnviroLab Services Pty Ltd and Eurofins | mgt all comply with the minimum Laboratory QA/QC requirements, which include performing the following:

- At least one blank every 20 samples;
- At least one Laboratory control sample every 20 samples;
- At least one duplicate every 10 samples; and
- At least one matrix spike every 20 samples.

The laboratories have met the previously determined QA/QC requirements. The QA/QC data is considered satisfactory and the quality of the analytical results considered suitable for the purposes of the soil sampling.

Field Replicates QA/QC

All QA/QC data is either within the RPD, the result was less than three times the laboratories limit of reporting or the result was less than 10% of the acceptance criteria. Based on the overall results of the QA/QC, the data is considered satisfactory to meet the predetermined data quality objective.