

Preliminary contamination investigation

Lot 1 and part Lot 2 361 Oxley Highway, Gilgandra NSW



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Summary report

Background

Land rezoning for employment purposes is proposed for rural land comprising Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra, NSW. The site has approximately 52ha and may be impacted by historical agricultural land-uses that may affect the contamination status of the site.

A preliminary contamination assessment is required to determine if any contamination is present and if further investigation is needed to make suitable for the proposed commercial rezoning.

Objectives of investigation

The objective of the investigation was to determine suitability of the site for the proposed land-use.

Scope

The scope was to identify past potentially contaminating activities, identify potential contamination types, discuss the site condition, provide an assessment of site contamination and assess the need for remediation or suitability for residential land-use. The scope of works included site inspection, review of available information, soil sampling, analysis and recommend suitable land-uses.

Summary

An inspection of the site was made on 14 November 2023. The current and historical land-use is broadacre agricultural comprising grazing and cereal cropping. The site is in a historically rural locality with grazing and cereal cropping occurring on neighbouring land to the west and south.

The site is fenced and divided in three paddocks. No buildings were identified on the site from review of historical imagery or site inspection. Ruins of a water tank were located in the southern section of the site. A windmill and a round structure comprising concrete were located adjacent to the ruins.

Surface cover in the was generally 100%. Vegetation included grasses, curly doc, fleabane, thistle and paddy melon. *Juncus* spp. was identified in the dam to the south east. Shelter belts consisting of remnant eucalypts, casuarina and cypress pine trees were identified across the site.

No evidence of staining, odours, orchards, mines, sheep dips, mixing sheds or contaminating industrial activities are known to have been located on the site from the review of site history or site walkover. No areas of fill were observed on the site.

Soil samples were collected from each paddock on an approximate 200m grid pattern. Samples were collected from the 0-100mm and analysed for heavy metals, considered the contaminants of concern. Discrete samples were combined to form a composite sample for analysis.

Two discrete soil samples were collected from the dam and from the water tank ruins, considered areas of environmental concern.

The soil sampling program did not detect elevated levels of heavy metals in the soil samples analysed over the paddock areas.

Recommendations

The site is suitable for commercial/industrial land-use. Foreign materials including the building materials from the former water tank located in the southern section of the site are considered an amenity hazard.

An unexpected finds procedure should be adopted for site development works.

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1. Introduction

Land rezoning for employment purposes is proposed for rural land comprising Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra, NSW. The site has approximately 52ha and may be impacted by historical agricultural land-uses that may affect the contamination status of the site.

A preliminary contamination assessment is required to determine if any contamination is present and if further investigation is needed to make the site suitable for the proposed rezoning.

2. Objectives

The objective of the investigation was to determine suitability of the site for the proposed commercial/industrial land-use.

3. Scope of work

Envirowest Consulting Pty Ltd was commissioned by Gilgandra Shire Council to undertake a preliminary contamination investigation, in accordance with the contaminated land management planning guidelines, from the *Contaminated Land Management Act 1997* and the *SEPP (Hazards and Resilience) of Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW*. The scope of works included site inspection, review of available information, soil sampling, analysis and reporting.

4. Site identification

| | |
|---------------------------|---|
| Address | 361 Oxley Highway, Gilgandra NSW |
| Deposited plans | Lot 1 and part Lot 2 DP1070081 |
| Latitude and longitude | -31.7113° 148.6330° |
| Geographic coordinates | 55J E654762m N6490486m |
| Client | Gilgandra Shire Council |
| Owner | Andrew Barry Schier and Meichelle Gai Schier |
| Current occupier | Vacant |
| Area | Approximately 52ha |
| Local government area | Gilgandra Shire Council |
| Current zoning | RU1 – Primary Production (Gilgandra LEP 2011) |
| Trigger for investigation | Proposed change in land zoning |
| Locality map | Figure 1 |

5. Site history

5.1 Land-uses

The current and historical land-use is broadacre agriculture comprising grazing on introduced pasture and seasonal cereal cropping.

5.2 Summary of council records

The southern section of the site is mapped as an area of biodiversity sensitivity (Gilgandra LEP 2011).

5.3 EPA databases

The investigation area is not listed on the NSW EPA register of contaminated sites (29 November 2023) or sites notified to the EPA (9 November 2023).

No sites listed on NSW EPA register of contaminated sites or sites notified to the EPA have been identified within 1km of the site.

5.4 Safework NSW Storage of hazardous chemicals

A search of the SafeWork NSW dangerous goods database was not considered necessary as no use of fuels was indicated from the searches and past land-uses.

5.5 POEO public register

No current or delicensed and former licensed activities under the POEO Act 1997 have been identified for the site.

Sites listed on NSW EPA POEO public register have not been identified within 1km of the site.

5.6 Other government agency databases

The site is not listed on the following databases:

- National Waste Management Site database
- National Liquid Fuel Facilities database
- The NSW Government PFAS Investigation Program
- Defence PFAS Investigation Program
- Defence PFAS Management Program
- Airservices Australia National PFAS Management Program

Gilgandra Community Recycling Centre is mapped in the waste management database and located approximately 860m east of the site. Potential contamination from the recycling centre is not expected to impact the site. No other sites listed on government agency databases have been identified within 1km of the investigation area.

5.7 Sources of information

Site inspection 14 November 2023 by Felipe Canavez of Envirowest Consulting Pty Ltd

NSW EPA records of public notices under the CLM Act 1997

Soil and geological maps

Historical aerial photographs including NSW Government historical imagery and Google Earth

Gilgandra LEP 2011

5.8 Review of historic aerial photographs, maps and plans

5.8.1 Aerial photographs

| Year | Visual observations on site | Surrounding area |
|------|--|---|
| 1961 | The site is in a rural locality. Lots 1 and 2 appear to be managed collectively. No fences are identified within the investigation area. The site is cleared agricultural land with sparse clusters of trees and a row of windbreaker trees to the north. Farm tracks are identified traversing the paddock. Land-use appears to be grazing. A water tank is located to the south. | Land-use to the north of the site appears to be rural, the Gilgandra Aerodrome is located further north. Land use to the east comprises a large reserve covered in trees. One building is located in the northern section of the reserve. Land use to the south and west comprises grazing. A building is identified adjacent to the southern boundary of the site, next to the water tank. |
| 1972 | No obvious changes are evident on-site. | A dwelling has been built and a number of trees have been planted to the north of the site. Additional commercial sheds are also identified to the north of the site. Rural-residential dwellings are identifiable to the east of the site. |
| 1981 | No obvious changes are evident on-site. | No obvious changes are evident in the surrounding area. |
| 1992 | Exposed soil is identified in the south eastern section of the site in the current dam location. | Additional development is identifiable to the north of the site including rural-residential dwellings. |
| 1996 | A small bare area is identified in the central western section of the site potentially due to stock movements. Reworked soil is identifiable in the south eastern section of the site. The area is partially covered with water. | The building in the southern boundary of the site is no longer identifiable. Additional rural-residential dwellings are identifiable to the south. Adjacent land to the west appears to be used for cropping. |
| 2006 | Two dams are identifiable in the eastern section of the site. | The paddock located to the west is being used for cropping. |
| 2013 | The dams appear to be dry. Land-use in the southern section of the site (part Lot 2) has changed to cropping. | The paddock located to the south is being used for cropping. |
| 2015 | No obvious changes are evident on-site. | The paddock located to the west is being used for cropping. |
| 2021 | The site is being used for cropping. | No obvious changes are evident in the surrounding area. |
| 2023 | No obvious changes are evident on-site. | No obvious changes are evident in the surrounding area. |

5.8.2 Topographic maps

The current topographic map (SIX Maps) depicts the site as vacant. A built-up area is depicted to the north including a council depot. The lot to the east is depicted as a reserve with some buildings. Land to the west and south is depicted as vacant.

5.8.3 Historical parish maps

The site is situated in the parish of Bobarah, County of Ewenmar.

| Map date | Details | Owner |
|----------|---|---|
| 1884 | Part of Castlereagh run | - |
| 1885 | Part of Portions 61, 90 and 93 | ME Humphries (Portion 61), John Carbery Byrne (Portions 90 and 93) |
| 1909 | Part of Portions 61, 90 and 93. Portion 93 presents the notation "subdivided" | ME Humphries (Portion 61), JC Byrne (Portion 90), Thomas Jones (Portion 93) |

| Map date | Details | Owner |
|----------|---|---|
| 1914 | Part of Portions 61, 90, 93 and 206. Portions 93 and 206 presents notation "subdivided" | The Commercial Banking Co. of Sydney Ltd (Portion 61), JC Byrne (Portion 90), Thomas Jones (Portion 93), Gov. Savings Bank of NSW (Portion 206) |
| 1924 | Part of Portions 61, 90, 93 and 206. Portions 93 and 206 notation "subdivided" | The Commercial Banking Co. of Sydney Ltd (Portion 61), WW Bayliss (Portion 90), Thomas Jones (Portion 93), Gov. Savings Bank of NSW (Portion 206) |
| 1936 | Part of Portions 61, 90, 93 and 206. | The Commercial Banking Co. of Sydney Ltd (Portions 61 and 206), WW Bayliss (Portion 90), AF&GH Bayliss (Portion 93) |
| 1950 | Part of Portions 61, 90, 93 and 206. | The Commercial Banking Co. of Sydney Ltd (Portions 61 and 206), WW Bayliss (Portion 90), AF&GH Bayliss (Portion 93) |

5.8.4 Title search

According to cadastral records, the site was previously subdivided into two portions (Appendix 6).

| Date of Acquisition and term held | Registered Proprietor(s) & Occupations where available |
|---|--|
| As regards the part tinted yellow on D.P. 1070081: - | |
| 15.03.1932 (1932 to 1940) | Walter William Bayliss (Tanner) |
| 30.04.1940 (1940 to 1956) | Augusta Fanny Bayliss (Widow) Gordon Horace Bayliss (Tanner) |
| As regards the part tinted pink on D.P. 1070081: - | |
| 15.09.1914 (1914 to 1915) | The Commercial Banking Company of Sydney Limited |
| 29.06.1915 (1915 to 1921) | Nicholas Travers (Farmer) |
| 08.11.1921 (1921 to 1924) | Jane Elizabeth Travers (Widow) |
| 16.04.1924 (1924 to 1925) | Minnie Hitchen (Married Woman) |
| 01.05.1925 (1925 to 1931) | John Henry Hitchen (Storekeeper) |
| 01.05.1931 (1931 to 1940) | Walter William Bayliss (Tanner) |
| 30.04.1940 (1940 to 1956) | Augusta Fanny Bayliss (Widow) Gordon Horace Bayliss (Tanner) |
| Continued as regards the whole: - | |
| 16.02.1956 (1956 to 1956) | Roy McCumstie (Grazier) Arthur Charles McCumstie (Grazier) |
| 15.06.1956 (1956 to 1965) | Melville Carl Lewis (Grazier) |
| 19.02.1965 (1965 to 1982) | Russell James Moston (Farmer) Elva Clarice Moston (Married Woman) |
| 10.12.1982 (1982 to 2000) | Barry John Schier Margaret Anne Schier |
| 03.08.2000 (2000 to 2016) | Walter Prout Leonie Joyce Prout |
| 10.08.2016 (2016 to date) | # Andrew Barry Schier # Meichelle Gai Schier |

Denotes current registered proprietors

5.8.5 Historical land-use of the site

The site is cleared agricultural land that is semi-improved. The primary land-use has been sheep grazing with intermittent cereal cropping. No historical contaminating activities have been identified.

5.9 Interview with site representative

Discussions with a representative of Gilgandra Shire Council indicated that historical land-use on-site comprised majorly grazing and cropping.

5.10 Chronological list of site uses

The site has a historical broadacre agricultural land-use comprising grazing and cropping. Crops are identifiable on the site in the 2021 aerial photograph.

5.11 Heritage listings

The site is not listed on the following government heritage databases:

- Commonwealth Heritage List
- National Heritage List
- State Heritage Register
- Local Environmental Plan (Gilgandra LEP 2011)

The site is identified as being within 1km of two general items on the Gilgandra LEP (2011) heritage map. The items *Butler Airline Hangar* (I26) and *The Igloo* (I53) located approximately 100m to the north of the site are not expected to have impacted on the contamination status of the site.

No items listed on the State Heritage Register, Commonwealth Heritage List and National Heritage List are located within 1km of the site.

5.12 Buildings and infrastructure

No buildings are currently located on the site. The site is divided into three paddocks by fences. The northern and central paddocks comprise Lot 1 and the southern paddock comprises part of Lot 2. A power transmission line and power poles traverse the central section of the site in the east-west direction. Ruins identified as a former water tank were located in the southern section of the site. A windmill and a round concreted structure were located adjacent to the ruins.

5.13 Spills, losses or discharges

No records for spills or losses on the site were available. No records for discharges to land, water or air were available.

5.14 Relevant complaint history

None expected.

5.15 Previous investigations

None known.

5.16 Historical neighbouring land-use

North – Oxley Highway, rural, Butler Airlines hangar, residential

South – Grazing and cropping

East – Reserve

West – Grazing and cropping

Historical neighbouring land-uses are not expected to impact the contamination status of the site.

5.17 Contaminant sources

Potential exists for contaminating activities to have been undertaken on-site which may impact on the suitability for the proposed land-use. Agricultural land-use may have resulted in the application of heavy metals in weed control products and fertilisers applied to the site. No bio solids are known to have been applied to the site.

Ruins of a former water tank were identified on the southern section of the site. The foreign materials contained in the ruins represent an amenity hazard.

5.18 Contaminants of concern

Based on historical activities and site inspection the potential contaminants of concern associated with agricultural land-use are:

- Heavy metals (arsenic, cadmium, chromium, copper, nickel, lead, zinc and mercury)

5.19 Integrity assessment

The site history was obtained from a site inspection and history review. The information is consistent with the current site condition and to the best of the assessor's knowledge is accurate.

6. Site condition and surrounding environment

6.1 Site inspection

The site was inspected by Felipe Canavez of Envirowest Consulting Pty Ltd on 14 November 2023.

6.2 Land-use

The current land-use is vacant pasture.

6.3 Current neighbouring land-use

North – Oxley Highway, residential, council depot, aerodrome

South – Grazing

East – Reserve

West – Grazing

6.4 Surface cover and vegetation

Vegetation cover on site was generally 100% including grasses and broadleaved weeds. Vegetation included curly doc, fleabane, thistle and paddy melon. *Juncus* spp. was identified in the dam to the south east. Clusters of remnant eucalypts and cypress pine trees were identified across the site.

6.5 Evidence of visible contamination

No signs of visible contamination such as discolouration or staining were identified on the surface of the site. No signs of settlement or subsidence was identified on the site.

Ruins of a former water tank were identified on the southern section of the site. The ruins comprised bricks, corrugated metal walls, pipes and timber (Figure 5).

6.6 Topography

The site morphology is a low-slope with very gently inclined slope of 0 to 1% to the south west. The average elevation is 288 metres above sea level.

6.7 Soils and geology

The site is mapped as an area of quaternary sediments including alluvium, gravel, sand, silt and clay (Offenberg AC, 1967). The Australian Soil Classification soil type map has the site mapped as a chromosol (State Government of NSW and Department of Planning and Environment 2012). Surface soils observed on site comprised brown clayey sand.

6.8 Water

6.8.1 Surface water

Surface water is expected to infiltrate in the sandy soils, discharge into the southern dam or flow south west to Marthaguy Creek located approximately 4km south west of the site. The dam was found to be dry at the day of the inspection.

6.8.2 Groundwater

Two groundwater bores are identified on the site on the NSW Government Water NSW website (2023). One of the bores was discontinued. The bores were not identified during the site inspection.

Thirty-four registered groundwater bores are identified within 500m of the site on the NSW Government Water NSW website (2023). The characteristics of selected bores are listed below. The selected bores are licenced for stock, domestic and monitoring. Water-bearing zones (WBZ) for bores which information is available were from 14m to 81.7m in clay, sand and gravel. Standing water levels were from 14m and generally deeper than 20m.

| No. | Date drilled | Location | SWL (m) | Use | Status |
|----------|--------------|----------|---------|-----------------|-----------------------------|
| GW009598 | 1/08/1951 | On-site | 18.2 | Stock | Current |
| GW036257 | 1/10/1977 | On-site | 26.3 | Monitoring bore | Filled, backfilled |
| GW802954 | 12/12/2004 | 77m E | 20 | Stock, domestic | Supply obtained |
| GW803610 | 7/11/2006 | 100m E | 40 | Stock, domestic | Supply obtained |
| GW030498 | 1/05/1974 | 100m N | 23 | Monitoring bore | Manual observations monthly |
| GW803015 | 25/09/2005 | 110m E | 14 | Domestic | Supply obtained |
| GW803664 | 10/07/2008 | 130m N | 22.4 | Domestic | Supply obtained |
| GW803304 | 6/12/2006 | 160m N | 22.8 | Domestic | Supply obtained |
| GW051271 | 1/09/1980 | 200m NE | 24.4 | Stock, domestic | Unknown |
| GW066574 | 24/03/1989 | 210m NE | 22.9 | Stock, domestic | Supply obtained |
| GW055751 | 1/03/1982 | 240m N | 26.2 | Domestic | Supply obtained |
| GW061200 | 1/07/1985 | 290m N | 23.2 | Domestic | Abandoned |

6.9 Evidence of possible naturally occurring contaminants

No natural sources of PAH were identified.

The site is not mapped as an acid sulphate soil risk (State Government of NSW and Department of Planning, Industry and Environment 1998).

The site is not mapped as a geological unit with asbestos potential (State Government of NSW and Department of Regional New South Wales 2015).

6.10 Environmentally sensitive features or habitats

The site is cleared agricultural land containing a number of clusters of trees. The cluster of remnant trees located in the south eastern section of the site is mapped as an area of biodiversity sensitivity. Part of the large reserve located to the east of the site is also mapped as area of biodiversity sensitivity (Gilgandra LEP 2011).

6.11 Integrity assessment

The site history was obtained from a site inspection and history review. The information is consistent with the current site condition and to the best of the assessor's knowledge is accurate.

7. Conceptual site model

7.1 Contaminant sources

Potential exists for contaminating activities to have been undertaken on-site which may impact on the suitability for the proposed land-use. The agricultural land-use may have resulted in application of heavy metals on the site. Fertilisers and weed control products applied may contain heavy metal contaminants. No bio solids are known to have been applied to the site.

Ruins of a former water tank were identified on the southern section of the site. The foreign materials contained in the ruins represent an amenity hazard.

Runoff from the site discharges to the dam and the sediments at the base of the dam are indicative of potential historical contaminating activity.

7.2 Contaminants of concern

Based on historical activities and site inspection the potential contaminants of concern associated with agricultural land-use are:

- Heavy metals (arsenic, cadmium, chromium, copper, nickel, lead, zinc and mercury)

7.3 Potential receptors

The proposed land-use of the site is commercial/industrial. Current and historical land-use is broadacre agriculture comprising introduced pasture and occasional cereal cropping.

Human receptors include:

- On-site workers
- Users of the site
- Construction workers
- Intrusive maintenance workers

Ecological receptors include:

- Flora and fauna on the site and adjacent to the site
- Aquatic flora and fauna receptors off-site

7.4 Exposure pathways

Pathways for exposure to contaminants are:

- Dermal contact following soil disturbance
- Ingestion and inhalation after soil disturbance
- Surface water and sediment runoff into waterways
- Leaching of contaminants into the groundwater
- Direct contact of flora and fauna with the soil

7.5 Source receptor linkages

Potential source pathway receptor linkages are identified to enable evaluation of any adverse impact on human health or ecology.

The proposed land-use of the site is commercial/industrial and human receptors to the investigation area are likely. Proposed users of the site may have a risk of exposure if contaminants are present and the soil is disturbed. Residents, visitors, construction workers and intrusive maintenance workers may potentially be receptors to soil contaminants through direct contact to soil which includes ingestion and dermal contact.

Inhalation may occur as a result of soil disturbance and dust production. Major soil disturbance before and after the development of the site is considered unlikely. Soil disturbance during construction and development of the site is expected to be accompanied by erosion control measures which will reduce the incidence of dust production.

Vegetation on the site may be potential receptors to soil contamination through direct uptake of contaminants.

The source receptor linkage to aquatic organisms and ecosystems is considered incomplete as the site is well vegetated and movement of sediments from the site is unlikely. During construction work it is expected that erosion control measures will be implemented and movement of sediment off site will be unlikely. Following development of the site it is expected that vegetation or hard surfaces will be re-established which will control sediment movement from the site. The nearest waterway to the site is Marthaguy Creek located approximately 4km south west of the site. It is not expected that contaminants from the site will be transported to aquatic receptors within the creek. Marthaguy Creek is considered to be a slightly disturbed ecosystem.

Groundwater is not identified as a potential receptor to contamination as potential contamination occurs on the surface and groundwater is identified at depths greater than 14m. Clay subsoils restrict downward movement of potential contaminants. No potential sensitive surface water receptors are located on the site.

| Source/contaminants | Transport | Potential exposure pathways | Receptors |
|--|---|---|---|
| <input checked="" type="checkbox"/> Use of fertilisers | <input checked="" type="checkbox"/> Wind | <input checked="" type="checkbox"/> Direct contact (ingestion and absorption) (human and environment) | <input checked="" type="checkbox"/> Site workers (staff) |
| Heavy metals | <input checked="" type="checkbox"/> Sedimentation | <input type="checkbox"/> Inhalation | <input checked="" type="checkbox"/> Construction workers |
| | <input type="checkbox"/> Groundwater | <input type="checkbox"/> Runoff | <input checked="" type="checkbox"/> Intrusive maintenance workers |
| | <input type="checkbox"/> Surface water | <input type="checkbox"/> Leaching | <input type="checkbox"/> Terrestrial flora and fauna |
| | <input type="checkbox"/> Volatilisation | | <input type="checkbox"/> Aquatic flora and fauna |

Potential, unknown/unlikely

8. Data quality objectives (DQO)

8.1 State the problem

Land rezoning from primary production (RU1) to commercial/industrial (E4) is proposed for the site (Figure 4). The site has historically been used for agriculture which may have resulted in the application of fertilisers and contaminating activities during general management activities.

Ruins of a former water tank were identified on the southern section of the site. The foreign materials contained in the ruins represent an amenity hazard.

Runoff from the site discharges to the dam and sediments are indicative of potential historical contaminating activity.

8.2 Identify the decision

Land rezoning is proposed and the levels of contaminants should be suitable for commercial/industrial based criteria and less than the thresholds listed in Section 11. The decision problem is, do the levels of potential contaminants exceed the assessment criteria and thresholds listed in Section 11.

8.3 Identify the inputs decision

Investigations of the site is required to identify any potential contaminants from the historical land-use. The inputs include:

- Field observation of aesthetic impacts of visible contamination
- Soil samples across the site
- Inspection of the condition of the site

8.4 Define the boundaries of the study

The investigation area is *Lot 1 and part Lot 2 DP1070081 361 Oxley Highway, Gilgandra NSW.*

8.5 Develop a decision rule

Data collected for the purpose of the contamination investigation must be sufficiently accurate in representativeness. The accuracy will be assessed by determination of:

- Current and historical land-use to describe potential contamination sources
- Site setting, potential receptors and pathways
- Soil samples to characterise the extent of contamination and analysis in accredited laboratories

The adopted criteria is the suitability for commercial/industrial land-use including the health and ecological investigation levels listed in Schedule B1 of the NEPM (1999) *Guideline on Investigation Levels for Soil and Groundwater*. The data must be sufficiently representative to identify the extent of contamination.

The decision rule for the investigation is:

- If the contamination levels were less than the adopted levels, are potential risks low and acceptable
- If the levels were equal or greater than the investigations level, will exceedances affect the suitability for the proposed land-use

8.6 Specify acceptable limits on the decision errors

A decision error in the context of the decision rule would lead to either underestimation or overestimation of the risk level associated with the property. Decision errors include:

- Limitations in available site history information
- Constraints associated with the ability to access certain areas of a site
- Errors in the sampling plan
- Data quality including comparability, representativeness and accuracy for data collection and analysis
- Analytic data validation

Where sample analysis is undertaken the quality of the data collected was assessed on a range of factors including:

- Documentation and data completeness
- Reference to relevant guidance documents
- Consistency of methodology
- Data quality including comparability, representativeness and accuracy for data collection and analysis

- Analytical data validation
- Satisfactory acceptance limits are the 95% upper confidence limit of samples collected is less than the threshold levels, the standard deviation of results should be less than 50% of the relevant investigation or screening level and the levels are less than 250% the relevant thresholds.

8.7 Optimize the design for obtaining data

The methodology described in Sections 9 and 10 presents a framework for the contamination investigation which has been designed to meet the scope objectives and the nominated DQO.

Optimisation of the data collection process was informed by a review of historical information and observations made at the time of site inspection. The sampling was used to inform the potential contamination status of the site. The scope of work was undertaken to a level of accuracy and confidence in the ASC NEPM (NEPC 1999).

Analytes included arsenic, cadmium, total chromium, copper, lead, nickel, zinc and mercury.

9. Sampling analysis plan and sampling methodology

9.1 Sampling strategy

9.1.1 Sampling design

Visual inspections were undertaken over the site for indicators of contamination.

A systematic sampling pattern was adopted to assess the probable location of contamination. Uniform management practices are expected to have occurred within each paddock.

A judgemental sampling pattern was adopted to assess potential areas of environmental concern including the water tank ruins and the dam sediments.

9.1.2 Sampling locations

Discrete soil samples were collected on an approximate 200m grid pattern across the general site. Four discrete samples were combined to form a composite soil sample. A total of 12 discrete soil samples were collected from the site and combined to form 3 composite samples for analysis of heavy metals.

One additional soil sample was collected from the sediments of the dam.

One sample from a potential area of environmental concern was collected. Sampling locations in areas of environmental concern were selected based on the most likely location of contaminants.

The sampling locations are described in Figure 3.

9.1.3 Sampling density

The sampling density can detect a potential hot spot across the site with a radius of 120m at a 95% level of confidence. The samples collected are expected to be representative of each paddock. The sampling frequency is less than the minimum recommended by EPA (2022) but expected to be sufficient due to preliminary nature of investigation and land-use history.

9.1.4 Sampling depth

Potential heavy metals present are generally immobile and expected to be contained in the 0 to 100mm which was the target sampling depth as minimal soil disturbance has occurred.

9.2 Analytes

The composite and discrete soil samples collected were evaluated for arsenic, cadmium, chromium, copper, lead, nickel, zinc and mercury.

Heavy metals were identified as the contaminants of concern possibly present as a result of broadacre agricultural activities onsite (Table 1).

9.3 Sampling methods

Soil samples from the site were taken using a stainless-steel hand trowel. Soil was taken at each individual sampling location below the vegetative and detrital layer. The soil was transferred to a clean plastic bag, mixed and transferred to a solvent rinsed glass jar with a Teflon lid. Combining 4 discrete samples made a composite sample for chemical analysis. Discrete soil samples were transferred directly to a solvent rinsed glass jar with a Teflon lid.

Tools were decontaminated between sampling locations to prevent cross contamination by brushing to remove caked or encrusted material, rinsing with clean tap water and allowing to air dry or using a clean towel.

The sampling log is presented in Appendix 2.

Table 1. Schedule of samples and analyses

| Sample ID | Sub-area | Location (Figure 3) | Date collected | Sample type | Analysis undertaken |
|-----------|------------------|---------------------|----------------|-------------|---|
| G1C | Lot 1 | 11, 12, 13, 14 | 14/11/2023 | Composite | Arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), Nickel (Ni), zinc (Zn), mercury (Hg) |
| G2C | Lot 1 | 21, 22, 23, 24 | 14/11/2023 | Composite | As, Cd, Cr, Cu, Pb, Ni, Zn, Hg |
| G3C | Lot 2 | 31, 32, 33, 34 | 14/11/2023 | Composite | As, Cd, Cr, Cu, Pb, Ni, Zn, Hg |
| D1 | Dam | D1 | 14/11/2023 | Discrete | As, Cd, Cr, Cu, Pb, Ni, Zn, Hg |
| HS1 | Water tank ruins | HS1 | 14/11/2023 | Discrete | As, Cd, Cr, Cu, Pb, Ni, Zn, Hg |

10. Quality assurance and quality control

10.1 Sampling design

The sampling program is intended to provide data as to the presence and levels of contaminants.

Discrete soil samples were collected on a systematic grid pattern of approximately 200 metres. This sampling density will enable the detection of an area with an elevated concentration on a radius of 120m with a 95% confidence level. The number of sampling locations is less than the recommended density in the EPA sampling guidelines but expected to be sufficient due to preliminary nature of investigation and broadscale agricultural land-use.

10.2 Field

The collection of samples was undertaken in accordance with accepted standard protocols (NEPC 1999). Composite sampling was undertaken to reduce the cost of chemical analysis. Combining equal amounts from four discrete samples created the composite sample. A composite sample represents the average concentration of the sub-sample. The rules for composite sampling were observed (EPA 2022). The composite samples were analysed for arsenic, cadmium, total chromium, copper, lead, nickel, zinc and

mercury. Discrete soil samples were collected from the dam and water tank and analysed for heavy metals.

Sampling equipment was decontaminated between each sampling event. The appropriate storage conditions and duration were observed between sampling and analysis. A chain of custody form accompanied the samples to the laboratory (Appendix 3).

A single sampler was used to collect the samples using standard methods. Soil collected was a fresh sample from a hand trowel. After collection the samples were immediately placed in new glass sampling jars and placed in a cooler.

One duplicate sample was collected. No field blank, rinsate, trip blank or matrix spikes were submitted for analysis. Some samples from all batches did not contain contaminants which confirm the absence of cross contamination during transport and storage.

A field sampling log is presented in Appendix 2.

10.3 Laboratory

Chemical analysis was conducted by SGS Laboratories, Alexandria, which is NATA accredited for the tests undertaken. The laboratories have quality assurance and quality control programs in place, which include internal replication and analysis of spike samples and recoveries.

Method blanks, matrix duplicates and laboratory control samples were within acceptance criteria. The quality assurance and quality control report is presented together with the laboratory report as Appendix 3.

10.4 Data evaluation

The laboratory quality control report indicates the data variability is within acceptable industry limits. The data is considered representative and usable for the purposes of the investigation. Data quality indicators are presented in Appendix 1.

11. Assessment criteria

The main reference for environmental site assessment in Australia is the ASC NEPM (NEPC 1999 rev 2013). This document includes criteria for use in evaluating potential risk to human health and ecosystems from chemical impacts, which are presented as generic investigation levels and screening levels appropriate to a Tier 1 risk-based assessment applicable for site assessment. The application of these investigation levels and screening levels is subject to a range of limitations, and their selection and use must be in the context of a conceptual site model (CSM) relating to the nature and distribution of impacts and potential exposure pathways.

The proposed land-use is for commercial/industrial and appropriate initial criteria are described in *Guideline on Investigation Levels for Soil and Groundwater* (NEPC 1999). A land rezoning is proposed for the site, future development is expected to comprise commercial offices and sheds.

The criteria lists health investigation levels (HIL) for a range of land-uses. The appropriate initial comparison for the site is commercial/industrial (HIL D).

Ecological investigation levels (EIL) have been developed for the protection of terrestrial ecosystems for selected metals and organic substances in the soil in the guideline (NEPC 1999). The EILs consider the

properties of the soil and contaminants and the capacity of the local ecosystem to accommodate increases in contaminant levels.

Typical CEC value for the site is >5 to 10cmol(+)/kg, clay content of >15 to 20%, pH values of between 5.0 and 5.5 and organic carbon of 1 to 2% (eSPADE, 2023). The proposed land-use is commercial/industrial. The contaminants have been identified in the soil for at least two years and are considered aged.

EILs vary with land-use and apply to contaminants up to 2m depth below the surface. The ASC NEPM EIL calculation spreadsheet was used to determine the EIL. The EILs for commercial/industrial land-use are listed in Table 2.

The investigation threshold was adjusted to enable the detection of an individual location being diluted in the composting process (EPA, 2022). For composite sampling, the analyte result was divided against the number of discrete samples making up the composite. This is based on a worst-case scenario in which one sample has a high concentration whilst other discrete samples have zero concentration. This is a conservative approach.

Chromium is analysed as total chromium which is the sum of chromium (III) and chromium (VI). Chromium (VI) is a potential contaminant from industrial processes including ferrochrome production, electroplating, pigment production and tanning (WHO 1998). Chromium (VI) is reduced to chromium (III) when it comes into contact with organic matter in biota, soil and water. Chromium in the environment is present in the trivalent state (WHO 1998).

The aesthetic state of sites is required to be assessed in preliminary site investigations (PSI). Aesthetic issues generally relate to the presence of materials with a negligible risk or non-hazardous inert foreign material in soil or fill resulting from human activity. Sites that have been assessed as being acceptable from a human health and environmental perspective may still contain such foreign material. An assessment of the site aesthetics requires consideration of the natural state of soil on any given site, and a comparison between it and the soil encountered during investigation works. Soils on site should not exhibit discolouration (staining), malodorous nature (odours) or abnormal consistency (rubble and asbestos).

Table 2. EIL Calculation sheet, commercial/industrial land-use

| Analyte | Rationale | EIL (mg/kg) |
|----------------|--|-------------|
| Arsenic | Generic | 160 |
| Chromium (III) | Clay content 20% | 840 |
| Copper | CEC 10cmol/kg, pH 5.5, organic carbon 2% | 210 |
| Lead | Generic | 1,800 |
| Nickel | CEC 10cmol/kg | 290 |
| Zinc | CEC 10cmol/kg, pH 5.5 | 500 |

EIL – Ecological investigation level

Table 3. Soil investigation levels (mg/kg) (NEPC 1999) for commercial/industrial land-use

| Analyte | HIL A Commercial/industrial | | EIL Commercial/industrial | |
|------------------|-----------------------------|------------------|---------------------------|------------------|
| | Discrete | Composite | Discrete | Composite |
| Arsenic | 3,000 | 750 | 160 | 40 |
| Cadmium | 900 | 225 | - | - |
| Chromium (total) | 3,600 ¹ | 900 ¹ | 840 ² | 210 ² |
| Copper | 240,000 | 60,000 | 210 | 52.5 |
| Lead | 1,500 | 375 | 1,800 | 450 |
| Nickel | 6,000 | 1,500 | 290 | 72.5 |
| Zinc | 400,000 | 100,000 | 500 | 125 |
| Mercury | 730 | 182.5 | - | - |

¹ Threshold for Chromium (VI), ² Threshold for Chromium (III), HIL – health investigation level, EIL – ecological investigation level

12. Results and discussion

The site is currently vacant pasture. Historical land-use is broadacre agricultural comprising grazing and cropping. No buildings were identified on the site. Ruins of a water tank were located in the southern section of the site. A windmill and a round concreted structure were located adjacent to the ruins. A dam is located in the south eastern section of the site.

Surface cover across the site was generally 100% dominated by grasses and broadleaved weeds

No surface staining or odours were detected on-site. No evidence of mines, orchards, sheep dips, mixing sheds or contaminating industrial activities were identified on the site from the review of site history or site inspection.

Elevated levels of zinc were identified in the water tank ruins, the levels are expected to be from leaching of the metal walls. The level of zinc at the ruins was less than the adopted thresholds.

The levels of all heavy metals analysed were less than the adopted commercial/industrial thresholds for human health and environment for all soil samples collected from the general site and areas of environmental concern, including the dam sediments and water tank (Table 4).

Table 4. Analytical results and threshold concentrations - heavy metals (mg/kg)

| Sample ID | Location | Sample type | Arsenic | Cadmium | Chromium (total) | Copper | Lead | Nickel | Zinc | Mercury |
|--|------------------|-------------|---------|---------|--------------------|---------|-------|--------|---------|---------|
| G1C | Northern paddock | Composite | 1 | <0.3 | 2.4 | 0.9 | 1 | 0.6 | 3 | <0.05 |
| G2C | Central paddock | Composite | <1 | <0.3 | 2.3 | 1.1 | 1 | 0.7 | 3 | <0.05 |
| G3C | Southern paddock | Composite | <1 | <0.3 | 2.6 | 1.0 | 1 | 0.6 | 2 | <0.05 |
| D1 | Dam sediments | Discrete | <1 | <0.3 | 2.3 | 0.6 | <1 | 0.5 | 3 | <0.05 |
| HS1 | Water tank ruins | Discrete | <1 | 0.6 | 4.6 | 6.6 | 8 | 0.9 | 250 | <0.05 |
| Health Investigation Levels – Commercial/industrial land-use threshold (NEPC 1999) | | | | | | | | | | |
| Discrete | | | 3,000 | 900 | 3,600 ¹ | 240,000 | 1,500 | 6,000 | 400,000 | 730 |
| Composite | | | 750 | 225 | 900 ¹ | 60,000 | 375 | 1,500 | 100,000 | 182.5 |
| Ecological Investigation Levels – Urban Commercial/industrial and public open space (NEPC 1999) | | | | | | | | | | |
| Discrete | | | 160 | - | 840 ² | 210 | 1,800 | 290 | 500 | - |
| Composite | | | 40 | - | 210 ² | 52.50 | 450 | 72.5 | 125 | - |

¹ Chromium VI, ² Chromium III

13. Site characterisation

13.1 Environmental contamination

Not applicable as no contamination was detected.

13.2 Chemical degradation production

Not applicable as no contamination was detected.

13.3 Exposed population

Not applicable as no contamination was detected.

14. Conclusions and recommendations

14.1 Summary

An inspection of the site was made on 14 November 2023. The current and historical land-use is broadacre agricultural comprising grazing and cereal cropping. The site is in a historically rural locality with grazing and cereal cropping occurring on neighbouring land to the west and south.

The site is fenced and divided in three paddocks. No buildings were identified on the site from review of historical imagery or site inspection. Ruins of a water tank were located in the southern section of the site. A windmill and a round structure comprising concrete were located adjacent to the ruins.

Surface cover in the was generally 100%. Vegetation included grasses, curly doc, fleabane, thistle and paddy melon. *Juncus* spp. was identified in the dam to the south east. Shelter belts consisting of remnant eucalypts, casuarina and cypress pine trees were identified across the site.

No evidence of staining, odours, orchards, mines, sheep dips, mixing sheds or contaminating industrial activities are known to have been located on the site from the review of site history or site walkover. No areas of fill were observed on the site.

Soil samples were collected from each paddock on an approximate 200m grid pattern. Samples were collected from the 0-100mm and analysed for heavy metals, considered the contaminants of concern. Discrete samples were combined to form a composite sample for analysis.

Two discrete soil samples were collected from the dam and from the water tank ruins, considered areas of environmental concern.

The soil sampling program did not detect elevated levels of heavy metals in the soil samples analysed over the paddock areas.

14.2 Assumptions in reaching the conclusions

It is assumed the sampling sites are representative of the site. An accurate history has been obtained and typical past farming practices were adopted.

14.3 Extent of uncertainties

The analytical data relate only to the locations sampled. Soil conditions can vary both laterally and vertically and it cannot be excluded that unidentified contaminants may be present. The sampling density was designed to detect a 'hot spot' with a radius of approximately 120m and with a 95% level of confidence.

14.4 Suitability for proposed use of the site

The site is suitable for commercial/industrial land-use.

14.5 Limitations and constraints on the use of the site

Nil

14.6 Recommendation for further work

The site is suitable for commercial/industrial land-use. Foreign materials including the building materials from the former water tank located in the southern section of the site are considered an amenity hazard.

An unexpected finds procedure should be adopted for site development works (Appendix 5).

15. Report limitations and intellectual property

This report has been prepared for the use of the client to achieve the objectives given the clients requirements. The level of confidence of the conclusion reached is governed by the scope of the investigation and the availability and quality of existing data. Where limitations or uncertainties are known, they are identified in the report. No liability can be accepted for failure to identify conditions or issues which arise in the future and which could not reasonably have been predicted using the scope of the investigation and the information obtained.

The investigation identifies the actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and subsequent laboratory testing is interpreted by geologists, engineers or scientists who then render an opinion about overall subsurface conditions, the nature and extent of the contamination, its likely impact on the proposed development and appropriate remediation measures. Actual conditions may differ from those inferred to exist, because no professional, no matter how well qualified, and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock or time. The actual interface between materials may be far more gradual or abrupt than a report indicates. Actual conditions in areas not sampled may differ from predictions. It is thus important to understand the limitations of the investigation and recognise that we are not responsible for these limitations.

This report, including data contained and its findings and conclusions, remains the intellectual property of Envirowest Consulting Pty Ltd. A licence to use the report for the specific purpose identified is granted for the persons identified in that section after full payment for the services involved in preparation of the report. This report should not be used by persons or for purposes other than those stated and should not be reproduced without the permission of Envirowest Consulting Pty Ltd.

16. References

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EPA (2017) *Contaminated Sites: Guidelines for the NSW Site Auditors Scheme* (NSW Department of Environment and Conservation, Chatswood)

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NEPC (1999 revised 2013) *National Environment Protection (Assessment of Site Contamination) Measure 1999* (National Environment Protection Council Service Corporation, Adelaide)

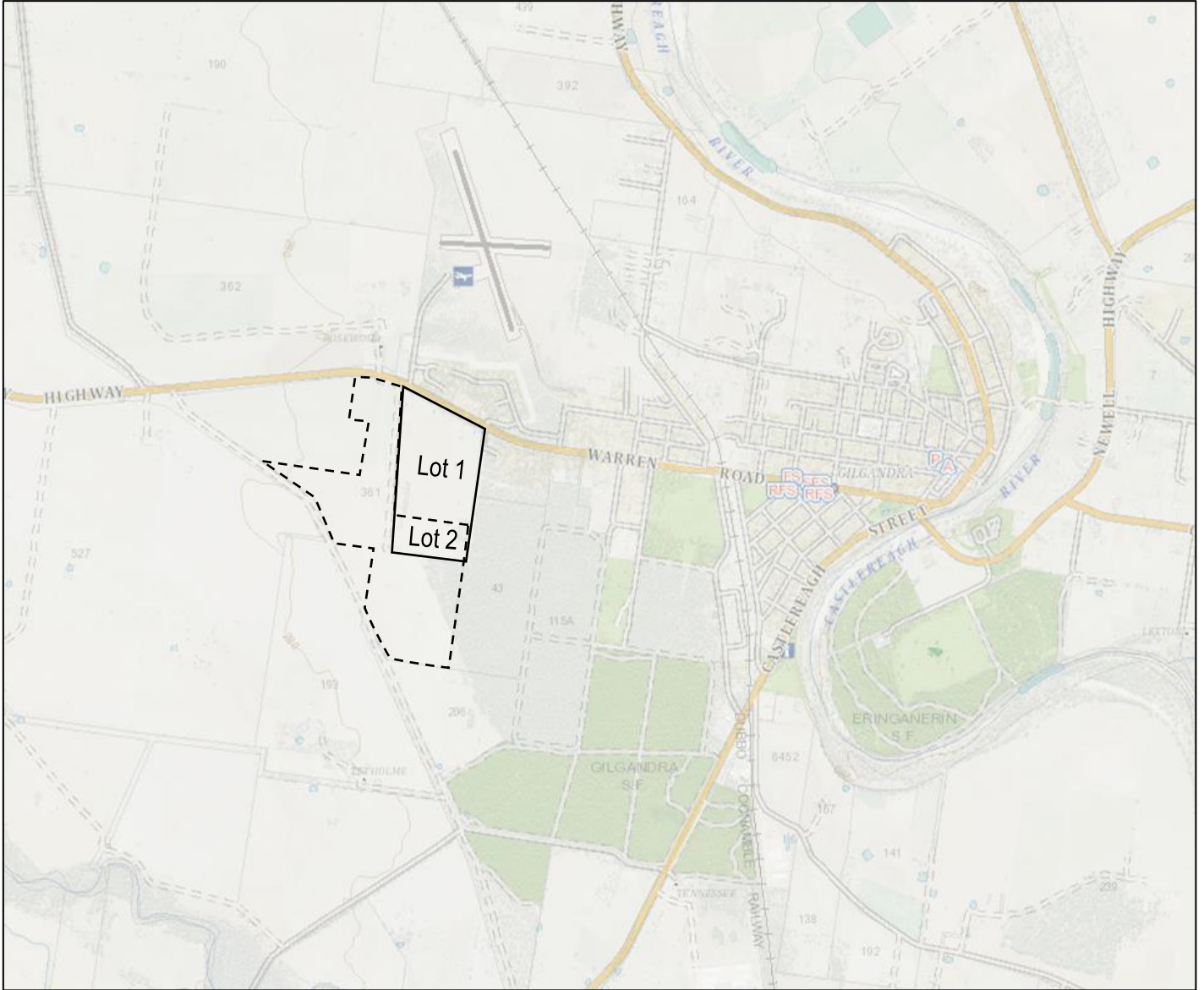
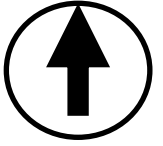
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Figures



Legend

- Investigation area
- - - Lot boundary

Figure 1. Site locality

Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW

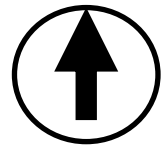


Envirowest Consulting Pty Ltd

Job: R16336c

Drawn by: FC

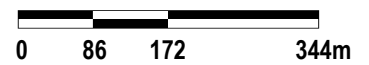
Date: 27/11/2023



Legend

- - - Investigation area
- Dam (dry)
- Lot boundary
- Internal fence
- ↘ Slope
- Water tank ruins

Approximate Scale 1: 8,600



| | | |
|--|-------------------------------|------------------|
| Figure 2. Aerial image (2023) and site layout | | |
| Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW | | |
| | Envirowest Consulting Pty Ltd | |
| Job: R16336c | Drawn by: FC | Date: 27/11/2023 |



Legend

- - - Investigation area
- Lot boundary
- Internal fence
- Dam (dry)
- ↘ Slope
- Water tank ruins

Approximate Scale 1: 8,600



| Figure 3. Sampling locations | | |
|--|-------------------------------|------------------|
| Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW | | |
| | Envirowest Consulting Pty Ltd | |
| Job: R16336c | Drawn by: FC | Date: 27/11/2023 |

Figure 5. Photographs of the site



Looking south from the central section of the site



Looking west from the central section of the site



Looking east from the central section of the site



Looking north from the central section of the site



Water tank ruins



Water tank ruins



Dam location (dry)

Appendices

Appendix 1. Sample analysis, quality assurance and quality control (QAQC) report

1. Data quality indicators (DQI) requirements

1.1 Completeness

A measure of the amount of usable data for a data collection activity. Greater than 95% of the data must be reliable based on the quality objectives. Where greater than two quality objectives have less reliability than the acceptance criterion the data may be considered with uncertainty.

1.1.1 Field

| Consideration | Requirement |
|------------------------------------|---|
| Locations and depths to be sampled | Described in the sampling plan. The acceptance criterion is 95% data retrieved compared with proposed. Acceptance criterion is 100% in crucial areas. |
| SOP appropriate and compiled | Described in the sampling plan. |
| Experienced sampler | Sampler or supervisor |
| Documentation correct | Sampling log and chain of custody completed |

1.1.2 Laboratory

| Consideration | Requirement |
|----------------------|--|
| Samples analysed | Number according to sampling and quality plan |
| Analytes | Number according to sampling and quality plan |
| Methods | EPA or other recognised methods with suitable PQL |
| Sample documentation | Complete including chain of custody and sample description |
| Sample holding times | Metals 6 months, OCP 14 days |

1.2 Comparability

The confidence that data may be considered to be equivalent for each sampling and analytical event. The data must show little or no inconsistencies with results and field observations.

1.2.1 Field

| Consideration | Requirement |
|---------------------|--|
| SOP | Same sampling procedures to be used |
| Experienced sampler | Sampler or supervisor |
| Climatic conditions | Described as may influence results |
| Samples collected | Sample medium, size, preparation, storage, transport |

1.2.2 Laboratory

| Consideration | Requirement |
|--------------------|--------------------------------|
| Analytical methods | Same methods, approved methods |
| PQL | Same |
| Same laboratory | Justify if different |
| Same units | Justify if different |

1.3 Representativeness

The confidence (expressed qualitatively) that data are representative of each media present on the site.

1.3.1 Field

| Consideration | Requirement |
|---------------------------|---|
| Appropriate media sampled | Sampled according to sampling and quality plan or in accordance with the EPA (2022) sampling guidelines. |
| All media identified | Sampling media identified in the sampling and quality plan. Where surface water bodies on the site sampled. |

1.3.2 Laboratory

| Consideration | Requirement |
|------------------|-------------|
| Samples analysed | Blanks |

1.4 Precision

A quantitative measure of the variability (or reproduced of the data). Is measured by standard deviation or relative percent difference (RPD). An RPD analysis is calculated and compared to the adopted criteria of 30%.

Data not conforming to the acceptance criterion will be examined for determination of suitability for the purpose of site characterisation.

1.4.1 Field

| Consideration | Requirement |
|------------------|--|
| Field duplicates | Frequency of 5%, results to be within RPD or discussion required indicate the appropriateness of SOP |

1.4.2 Laboratory

| Consideration | Requirement |
|--|---|
| Laboratory and inter lab duplicates | Frequency of 5%, results to be within RPD or discussion required. Inter laboratory duplicates will be one sample per batch. |
| Field duplicates | Frequency of 5%, results to be within RPD or discussion required |
| Laboratory prepared volatile trip spikes | One per sampling batch, results to be within RPD or discussion required |

1.5 Accuracy

A quantitative measure of the closeness of the reported data to the true value.

1.5.1 Field

| Consideration | Requirement |
|-----------------------------|---|
| SOP | Complied |
| Inter laboratory duplicates | Frequency of 5%. Analysis criterion 60% RPD for levels greater than 10 times the PQL 85% RPD for levels between 5 to 10 times the PQL 100% RPD at levels between 2 to 5 times the PQL Absolute difference, 3.5 times the PQL where levels are, 2 times PQL |

1.5.2 Laboratory

Recovery data (surrogates, laboratory control samples and matrix spikes) data subject to the following control limits:

- 60-140% acceptable data
- 20-60% discussion required, may be considered acceptable
- 10-20% data should considered as estimates
- 10% data should be rejected

| Consideration | Requirement |
|----------------------------|--|
| Field blanks | Frequency of 5%, <5 times the PQL, PQL may be adjusted |
| Rinsate blanks | Frequency of 5%, <5 times the PQL, PQL may be adjusted |
| Method blanks | Frequency of 5%, <5 times the PQL, PQL may be adjusted |
| Matrix spikes | Frequency of 5%, results to be within +/-40% or discussion required |
| Matrix duplicates | Sample injected with a known concentration of contaminants with tested. |
| Surrogate spikes | Frequency of 5%, results to be within +/-40% or discussion required QC monitoring spikes to be added to samples at the extraction process in the laboratory where applicable. Surrogates are closely related to the organic target analyte and not normally found in the natural environment. Frequency of 5%, results to be within +/-40% or discussion required |
| Laboratory control samples | Externally prepared reference material containing representative analytes under investigation. These will be undertaken at one per batch. It is to be within +/-40% or discussion required |
| Laboratory prepared spikes | Frequency of 5%, results to be within +/-40% or discussion required |

2. Laboratory analysis summary

One analysis batch was undertaken over the preliminary investigation program. Samples were collected on 14 November 2023. A total of 5 samples were submitted for analytical testing. The samples were collected in the field by an environmental scientist from Envirowest Consulting Pty Ltd, placed into laboratory prepared receptacles as recommended in NEPM (1999). The samples preservation and storage was undertaken using standard industry practices. A chain of custody form accompanied transport of the samples to the laboratory.

The samples were analysed at the laboratories of SGS laboratories, Alexandria NSW which is National Association of Testing Authorities (NATA) accredited for the tests undertaken. The analyses undertaken, number of samples tested and methods are presented in the following tables:

Laboratory analysis schedule

| Sample id. | Number of samples | Duplicate | Analyses | Date collected | Substrate | Laboratory report |
|------------------------|-------------------|-----------|---|----------------|-----------|-------------------|
| G1C, G2C, G3C, D1, HS1 | 5 | 1 | Arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), zinc (Zn), mercury (Hg) | 14/11/2023 | Soil | SE256825 |

Analytical methods

| Analyte | Extraction | Laboratory methods |
|-------------------|------------------------------|---|
| Metals | USEPA 200.2 Mod | APHA USEPA SW846-6010 |
| Chromium (III) | - | APHA 3500 CR-A&B & 3120 and USEPA SW846-3060A |
| Chromium (VI) | USEPA SW846-3060A | USEPA SW846-3060A |
| Mercury | USEPA 200.2 Mod | APHA 3112 |
| TRH(C6-C9) | USPEA SW846-5030A | USPEA SW 846-8260B |
| TRH(C10-C40), PAH | Tumbler extraction of solids | USEPA SW 846-8270B |
| PCB | Tumbler extraction of solids | USEPA SW 846-8270B |
| BTEX | Tumbler extraction of solids | USEPA SW 846-8260B |
| OC Pesticides | Tumbler extraction of solids | USEPA SW 846-8270B |

3. Field quality assurance and quality control

One laboratory duplicate sample was collected for the investigation. The frequency was 20% which was in accordance with the recommended frequency of 5%. Table A1 outlines the samples collected and

differences in replicate analyses. Relative differences were deemed to pass if they were within the acceptance limits of +/- 30% for replicate analyses or less than 5 times the detection limit.

Field duplicate frequency

| Sample id. | Number of samples | Duplicate | Frequency (%) | Date collected | Substrate | Laboratory report |
|------------------------|-------------------|-----------|---------------|----------------|-----------|-------------------|
| G1C, G2C, G3C, D1, HS1 | 5 | 1 | 20 | 14/11/2023 | Soil | SE256825 |

Table A1. Relative differences for intra laboratory duplicates

| | GR1C | GRDA | Relative difference (%) | Pass/Fail |
|------------------|-------|-------|-------------------------|-----------|
| Arsenic | 1 | <1 | NA | Pass |
| Cadmium | <0.3 | <0.3 | NA | Pass |
| Chromium (total) | 2.4 | 2.5 | 4 | Pass |
| Copper | 0.9 | 1.0 | 11 | Pass |
| Lead | 1 | 1 | 0 | Pass |
| Nickel | 0.6 | 0.7 | 15 | Pass |
| Zinc | 3 | 3 | 0 | Pass |
| Mercury | <0.05 | <0.05 | NA | Pass |

NA – relative difference unable to be calculated as results are less than laboratory detection limit

No trip blanks or spikes were submitted for analysis. This is not considered to create significant uncertainty in the analysis results because of the following rationale:

- The fieldwork was completed within a short time period and consistent methods were used for soil sampling.
- Soil samples were placed in insulated cooled containers after sampling to ensure preservation during transport and storage.
- The samples were placed in single use jars using clean sampling tools and disposable gloves from material not in contact with other samples. This reduces the likelihood of cross contamination.
- Samples in the analysis batch contain analytes below the level of detection. It is considered unlikely that contamination has occurred as a result of transport and handling.
- Target analytes not volatile

4. Laboratory quality assurance and quality control

Sample holding times are recommended in NEPM (1999). The time between collection and extraction was generally less than the criteria listed below:

| Analyte | Maximum holding time |
|---------------------------|----------------------|
| Metals | 6 months |
| Hexavalent chromium | 30 days |
| Mercury | 28 days |
| BTEXN, TRH, PAH, OCP, OPP | 14 days |

Outliers were identified for hexavalent chromium. The laboratory interpretative reports are presented with individual laboratory report. Assessment is made of holding time, frequency of control samples and quality control samples. The laboratory report also contains a detailed description of preparation methods and analytical methods.

The results, quality report, interpretative report and chain of custody are presented in the attached appendices. The quality report contains the laboratory duplicates, spikes, laboratory control samples, blanks and where appropriate matrix spike recovery (surrogate).

5. Data quality indicators (DQI)

5.1 Completeness

A measure of the amount of usable data for a data collection activity (total to be greater than 90%)

5.1.1 Field

| Consideration | Accepted | Comment |
|------------------------------|----------|---|
| Locations to be sampled | Yes | In accordance with sampling methodology, described in the report. |
| SOP appropriate and compiled | Yes | In accordance with sampling methodology |
| Experienced sampler | Yes | Environmental scientist |
| Documentation correct | Yes | Chain of custody completed |

5.1.2 Laboratory

| Consideration | Accepted | Comment |
|----------------------|----------|---|
| Samples analysed | Yes | In accordance with chain of custody and analysis plan. |
| Analytes | Yes | In accordance with chain of custody and analysis plan. |
| Methods | Yes | Analysed in NATA accredited laboratory with recognised methods and suitable PQL |
| Sample documentation | Yes | Completed including chain of custody and sample results and quality results |
| Sample holding times | Yes | Metals < 6 months, CrVI <30 days Mercury < 28 days OCP, OPP, PAH, TRH, PCB, BTEXN < 14 days |

5.2 Comparability

The confidence that data may be considered to be equivalent for each sampling and analytical event.

5.2.1 Field

| Consideration | Accepted | Comment |
|---------------------|----------|---|
| SOP | Yes | Same sampling procedures used and sampled on one date |
| Experienced sampler | Yes | Experienced environmental scientist |
| Climatic conditions | Yes | Sampling log |
| Samples collected | Yes | Suitable size and storage |

5.2.2 Laboratory

| Consideration | Accepted | Comment |
|--------------------|----------|--------------------------|
| Analytical methods | Yes | Same methods all samples |
| PQL | Yes | Suitable for analytes |
| Same laboratory | Yes | - |
| Same units | Yes | - |

5.3 Representativeness

The confidence (expressed qualitatively) that data are representative of each media present on the site.

5.3.1 Field

| Consideration | Accepted | Comment |
|---------------------------|----------|---|
| Appropriate media sampled | Yes | Sampled according to sampling and quality plan |
| All media identified | Yes | Soil sampling media identified in the sampling and quality plan |

5.3.2 Laboratory

| Consideration | Accepted | Comment |
|------------------|----------|---|
| Samples analysed | Yes | Undertaken in NATA accredited laboratory. Samples in the analysis batch contain analytes below the level of detection. It is considered unlikely that contamination has occurred as a result of transport and handling. |

5.4 Precision

A quantitative measure of the variability (or reproduced of the data)

5.4.1 Field

| Consideration | Accepted | Comment |
|------------------|----------|-----------|
| SOP | Yes | Complied |
| Field duplicates | Yes | Collected |

5.4.2 Laboratory

| Consideration | Accepted | Comment |
|---|----------|--|
| Laboratory duplicates | Yes | Frequency of 5%, results to be within +/-40% or discussion required. |
| Field duplicates (intra and inter laboratory) | Yes | Frequency of 5%, results to be within +/-30% or discussion required. |
| Laboratory prepared volatile trip spikes | NA | Frequency of 5%, results to be within +/-30% or discussion required. |

5.5 Accuracy

A quantitative measure of the closeness of the reported data to the true value

5.5.1 Field

| Consideration | Accepted | Comment |
|---------------|----------|---------------|
| SOP | Yes | Complied |
| Field blanks | No | Not collected |

5.5.2 Laboratory

| Consideration | Accepted | Comment |
|----------------------------|----------|--|
| Method blanks | Yes | Frequency of 5%, <5 times the PQL, PQL may be adjusted |
| Matrix spikes | Yes | Frequency of 5%, results to be within +/-40% or discussion required |
| Matrix duplicates | Yes | Frequency of 5%, results to be within +/-40% or discussion required. |
| Surrogate spikes | Yes | Frequency of 5%, results to be within +/-40% or discussion required. |
| Laboratory control samples | Yes | Frequency of 5%, results to be within +/-40% or discussion required. |
| Laboratory prepared spikes | Yes | Frequency of 5%, results to be within +/-40% or discussion required. |

No trip blanks, field spikes or sample rinsates were submitted for analysis. This is not considered to create significant uncertainty in the analysis results because of the following rationale:

- The fieldwork methods used for soil sampling were consistent throughout the project with all in situ samples collected from material which had not been subject to exposure.
- The fieldwork was completed within a short time period and consistent methods were used for soil sampling.
- Soil samples were placed in insulated cooled containers as quickly as possible, with the containers filled to minimize headspace. The sample containers were sealed immediately after the sample was collected and chilled in an esky containing ice.

- The samples were stored in a refrigerator and transported with ice bricks to ensure preservation during transport and storage.
- The samples were placed in single use jars using clean sampling tools and disposable gloves from material not in contact with other samples. This reduces the likelihood of cross contamination.
- Samples in the analysis batches contained analytes below the level of detection. It is considered unlikely that contamination has occurred as a result of transport and handling.
- Target analytes not volatile

6. Conclusion

All media appropriate to the objectives of this investigation have been adequately analysed and no area of significant uncertainty exist. It is concluded the data is usable for the purposes of the investigation.

Appendix 3. Soil analysis results – SGS report number SE256825

CLIENT DETAILS

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 NSW 2800**

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 Facsimile **(Not specified)**
 Email **felipe@envirowest.net.au**

Project **16336**
 Order Number **16336**
 Samples **6**

LABORATORY DETAILS

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SGS Reference **SE256825 R0**
 Date Received **17/11/2023**
 Date Reported **24/11/2023**

COMMENTS

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

SIGNATORIES



Huong CRAWFORD
 Production Manager



Kamrul AHSAN
 Senior Chemist

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 22/11/2023

| PARAMETER | UOM | LOR | G1C | G2C | G3C | D1 | HS1 |
|--------------|-------|-----|---|---|---|---|---|
| | | | SOIL - 14/11/2023 SE256825.001 | SOIL - 14/11/2023 SE256825.002 | SOIL - 14/11/2023 SE256825.003 | SOIL - 14/11/2023 SE256825.004 | SOIL - 14/11/2023 SE256825.005 |
| Arsenic, As | mg/kg | 1 | 1 | <1 | <1 | <1 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.6 |
| Chromium, Cr | mg/kg | 0.5 | 2.4 | 2.3 | 2.6 | 2.3 | 4.6 |
| Copper, Cu | mg/kg | 0.5 | 0.9 | 1.1 | 1.0 | 0.6 | 6.6 |
| Lead, Pb | mg/kg | 1 | 1 | 1 | 1 | <1 | 8 |
| Nickel, Ni | mg/kg | 0.5 | 0.6 | 0.7 | 0.6 | 0.5 | 0.9 |
| Zinc, Zn | mg/kg | 2 | 3 | 3 | 2 | 3 | 250 |

| PARAMETER | UOM | LOR | DA |
|--------------|-------|-----|---|
| | | | SOIL - 14/11/2023 SE256825.006 |
| Arsenic, As | mg/kg | 1 | <1 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 2.5 |
| Copper, Cu | mg/kg | 0.5 | 1.0 |
| Lead, Pb | mg/kg | 1 | 1 |
| Nickel, Ni | mg/kg | 0.5 | 0.7 |
| Zinc, Zn | mg/kg | 2 | 3 |

Mercury in Soil [AN312] Tested: 22/11/2023

| | | | G1C | G2C | G3C | D1 | HS1 |
|-----------|-------|------|--------------|--------------|--------------|--------------|--------------|
| | | | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | - | - | - | - | - |
| | | | 14/11/2023 | 14/11/2023 | 14/11/2023 | 14/11/2023 | 14/11/2023 |
| PARAMETER | UOM | LOR | SE256825.001 | SE256825.002 | SE256825.003 | SE256825.004 | SE256825.005 |
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| | | | DA |
|-----------|-------|------|--------------|
| | | | SOIL |
| | | | - |
| | | | 14/11/2023 |
| PARAMETER | UOM | LOR | SE256825.006 |
| Mercury | mg/kg | 0.05 | <0.05 |

Moisture Content [AN002] Tested: 22/11/2023

| PARAMETER | UOM | LOR | G1C SOIL - 14/11/2023 SE256825.001 | G2C SOIL - 14/11/2023 SE256825.002 | G3C SOIL - 14/11/2023 SE256825.003 | D1 SOIL - 14/11/2023 SE256825.004 | HS1 SOIL - 14/11/2023 SE256825.005 |
|------------|------|-----|--|--|--|---|--|
| % Moisture | %w/w | 1 | 2.0 | 2.1 | 1.5 | 3.4 | 17.0 |

| PARAMETER | UOM | LOR | DA SOIL - 14/11/2023 SE256825.006 |
|------------|------|-----|---|
| % Moisture | %w/w | 1 | 3.6 |

METHOD

METHODOLOGY SUMMARY

AN002

The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.

AN040/AN320

A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.

AN040

A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.

AN312

Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500

FOOTNOTES

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

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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

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Project **16336**
 Order Number **16336**
 Samples 6

LABORATORY DETAILS

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SGS Reference **SE256825 R0**
 Date Received 17 Nov 2023
 Date Reported 24 Nov 2023

COMMENTS

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

The data relating to sampling was taken from the Chain of Custody document.
 This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
 The Statement and the Analytical Report must not be reproduced except in full.
 All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

| | | | |
|--|------------|---------------------------------|----------|
| Sample counts by matrix | 6 Soil | Type of documentation received | COC |
| Date documentation received | 17/11/2023 | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 15.9°C |
| Sample container provider | SGS | Turnaround time requested | Standard |
| Samples received in correct containers | Yes | Sufficient sample for analysis | Yes |
| Sample cooling method | Ice Bricks | Samples clearly labelled | Yes |
| Complete documentation received | Yes | | |

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

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

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

Mercury in Soil

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| G1C | SE256825.001 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |
| G2C | SE256825.002 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |
| G3C | SE256825.003 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |
| D1 | SE256825.004 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |
| HS1 | SE256825.005 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |
| DA | SE256825.006 | LB297411 | 14 Nov 2023 | 17 Nov 2023 | 12 Dec 2023 | 22 Nov 2023 | 12 Dec 2023 | 24 Nov 2023 |

Moisture Content

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| G1C | SE256825.001 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |
| G2C | SE256825.002 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |
| G3C | SE256825.003 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |
| D1 | SE256825.004 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |
| HS1 | SE256825.005 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |
| DA | SE256825.006 | LB297397 | 14 Nov 2023 | 17 Nov 2023 | 28 Nov 2023 | 22 Nov 2023 | 27 Nov 2023 | 24 Nov 2023 |

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

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

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| G1C | SE256825.001 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |
| G2C | SE256825.002 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |
| G3C | SE256825.003 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |
| D1 | SE256825.004 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |
| HS1 | SE256825.005 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |
| DA | SE256825.006 | LB297410 | 14 Nov 2023 | 17 Nov 2023 | 12 May 2024 | 22 Nov 2023 | 12 May 2024 | 24 Nov 2023 |

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

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

No surrogates were required for this job.

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

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

Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result |
|---------------|-----------|-------|------|--------|
| LB297411.001 | Mercury | mg/kg | 0.05 | <0.05 |

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

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

| Sample Number | Parameter | Units | LOR | Result |
|---------------|--------------|-------|-----|--------|
| LB297410.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2 |

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

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

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

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

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

Mercury in Soil

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------|-------|------|--------------------------|-----------|------------|-------|
| SE256826.004 | LB297411.014 | Mercury | mg/kg | 0.05 | 0.00156314270.0001026305 | | 200 | 0 |
| SE256827.006 | LB297411.024 | Mercury | mg/kg | 0.05 | 0.01042141910.0104770950 | | 200 | 0 |

Moisture Content

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-------|-----|--------------------------|-----------|------------|-------|
| SE256826.004 | LB297397.011 | % Moisture | %w/w | 1 | 1.57894736841.3793103448 | | 98 | 13 |
| SE256827.006 | LB297397.021 | % Moisture | %w/w | 1 | 5.52763819094.8723897911 | | 49 | 13 |

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

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

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|--------------|---------------------------|-----|---------------------------|-----------|------------|-------|
| SE256826.004 | LB297410.014 | Arsenic, As | mg/kg | 1 | 0.97833806811.0768387832 | | 127 | 7 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.01547877670.0179056719 | | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 10.47754428472.1704435872 | | 34 | 15 |
| | | Copper, Cu | mg/kg | 0.5 | 2.65044284752.8161874287 | | 48 | 6 |
| | | Nickel, Ni | mg/kg | 0.5 | 2.01105030082.3015034627 | | 53 | 13 |
| | | Lead, Pb | mg/kg | 1 | 3.87286931814.0854080827 | | 55 | 5 |
| SE256827.006 | LB297410.024 | Zinc, Zn | mg/kg | 2 | 5.46519886366.4231393004 | | 64 | 16 |
| | | Arsenic, As | mg/kg | 1 | 7.01792553196.4297849991 | | 45 | 9 |
| | | Cadmium, Cd | mg/kg | 0.3 | 0.04410460990.0360249418 | | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 24.158300088@4.9194752365 | | 32 | 3 |
| | | Copper, Cu | mg/kg | 0.5 | 13.88104388292.0861456284 | | 34 | 14 |
| | | Nickel, Ni | mg/kg | 0.5 | 8.09628324467.9935343286 | | 36 | 1 |
| | | Lead, Pb | mg/kg | 1 | 11.28460549648.9946719113 | | 40 | 23 |
| Zinc, Zn | mg/kg | 2 | 14.15184618793.4719940103 | | 44 | 5 | | |

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

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

Mercury in Soil

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-----------|-------|------|--------|----------|------------|------------|
| LB297411.002 | Mercury | mg/kg | 0.05 | 0.18 | 0.2 | 80 - 120 | 92 |

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

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

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|-------|-----|--------|----------|------------|------------|
| LB297410.002 | Arsenic, As | mg/kg | 1 | 340 | 318.22 | 80 - 120 | 106 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.4 | 4.81 | 70 - 130 | 92 |
| | Chromium, Cr | mg/kg | 0.5 | 36 | 38.31 | 80 - 120 | 93 |
| | Copper, Cu | mg/kg | 0.5 | 320 | 290 | 80 - 120 | 111 |
| | Nickel, Ni | mg/kg | 0.5 | 180 | 187 | 80 - 120 | 99 |
| | Lead, Pb | mg/kg | 1 | 94 | 89.9 | 80 - 120 | 104 |
| | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 105 |

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

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

Mercury in Soil

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------|-------|------|--------|----------|-------|-----------|
| SE256825.001 | LB297411.004 | Mercury | mg/kg | 0.05 | 0.22 | <0.05 | 0.2 | 109 |

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

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

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|--------------|-------|-----|--------|----------|-------|-----------|
| SE256825.001 | LB297410.004 | Arsenic, As | mg/kg | 1 | 48 | 1 | 50 | 93 |
| | | Cadmium, Cd | mg/kg | 0.3 | 42 | <0.3 | 50 | 84 |
| | | Chromium, Cr | mg/kg | 0.5 | 50 | 2.4 | 50 | 94 |
| | | Copper, Cu | mg/kg | 0.5 | 52 | 0.9 | 50 | 102 |
| | | Nickel, Ni | mg/kg | 0.5 | 49 | 0.6 | 50 | 96 |
| | | Lead, Pb | mg/kg | 1 | 50 | 1 | 50 | 97 |
| | | Zinc, Zn | mg/kg | 2 | 52 | 3 | 50 | 98 |

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

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

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

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

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

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

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

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

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Chain of Custody Form – Ref 16336

| | | | | | | | | | | | | | | | |
|--|---|------------|-----------------------------|---|--|---|--|---|---------------------------|------|--|--|-------|------|--------|
| Ref: 16336 Investigator: Envirowest Consulting 9 Cameron Place PO Box 8158 ORANGE NSW 2800 Telephone: (02) 6361 4954 Email: felipe@envirowest.net.au Contact Person: Felipe Canavez Invoice: accounts@envirowest.net.au | | | Sample matrix | | | Sample preservation | | | Analysis | | | | | | |
| Laboratory: SGS SYDNEY 16/33 Maddox Street ALEXANDRIA NSW 2015 Quotation #: Envir_70119_2019 Courier/CN: | | | | | | | | | | | | | Water | Soil | Sludge |
| Sample ID | | | Container* | | | Sampling Date/Time | | | 8 Metals | CL2T | | | | | |
| G1C | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| G2C | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| G3C | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| D1 | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| HS1 | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| DA | A | 14/11/2023 | | X | | X | | X | | X | | | | | |
| | | | | | | | | | | | | | | | |
| Investigator: I attest that the proper field sampling procedures were used during the collection of these samples. | | | | | | Sampler name: Felipe Canavez Date: 14/11/2023 Time: 1500 | | | | | | | | | |
| Relinquished by: Virginia Bragg (print and signature) | | | Date: 16/11/2023 Time 13:00 | | | Received by: <i>[Signature]</i> (print and signature) | | | Date 17/11/23 Time 6:30AM | | | | | | |

2
3
4
5
6



Please return completed form to Envirowest Consulting, *A = Solvent rinsed glass jar with Teflon lined lid and green label, B= Plastic with green label, C= Amber with green label, D= Vial with white label, E= Plastic with red label

Appendix 4. Soil sampling protocols

1. Sampling

The samples will be collected from the auger tip, mattock, hand auger or excavator bucket immediately on withdrawal.

The time between retrieval of the sample and sealing of the sample container will be kept to a minimum.

The material will be collected using single use disposal gloves or a stainless-steel spade which represented material which has not been exposed to the atmosphere prior to sampling.

All sampling jars will be filled as close to the top as possible to minimise the available airspace within the jar.

2. Handling, containment and transport

Daily sampling activities will be recorded including sampling locations, numbers, observations, measurements, sampler, date and time and weather condition.

The sampling jars will be new sterile glass jars fitted with plastic lid and airtight Teflon seals, supplied by the laboratories for the purpose of collecting soil samples for analysis. Sample containers will be marked indelibly with the sample ID code to waterproof labels affixed to the body of the container.

All samples will be removed from direct sunlight as soon as possible after sampling and placed in insulated containers. Samples will be stored in a refrigerator at 4°C prior to transportation to the laboratory in insulated containers with ice bricks in accordance with AS4482.1.

Handling and transportation to the laboratory will be accompanied with a chain of custody form to demonstrate the specimens are properly received, documents, processed and stored.

Maximum holding time for extraction (AS4482.1) are:

| Analyte | Maximum holding time |
|-------------------------|----------------------|
| Metals | 6 months |
| Mercury | 28 days |
| Sulfate | 7 days |
| Organic carbon | 7 days |
| OCP, OPP, PCB | 14 days |
| TRH, BTEX, PAH, phenols | 14 days |

3. Decontamination of sampling equipment

Sampling tools will be decontaminated between sampling locations by

- Removing soil adhering to the sampling equipment by scraping, brushing or wiping
- Washing with a phosphate-free detergent
- Rinsing thoroughly with clean water
- Repeating if necessary
- Collect rinsate per sampling time and preserve according to AS 2031.1
- Dry equipment with disposable towels or air

Appendix 5. Unidentified finds procedure

Unidentified finds procedure

1. Introduction

Commercial/industrial land-use is proposed for Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW.

A procedure is required describing the actions if potential contamination or hazards are encountered during demolition / soil disturbance / subdivision / excavation / construction activities.

2. Scope

Prepare a procedure to enable the identification and management of unexpected hazards identified during excavation works and/or construction activities.

3. Site identification

Lot 1 and part Lot 2 DP1070081, 361 Oxley Highway, Gilgandra NSW.

4. Responsible person

The landowner / site supervisor is responsible for implementation of the unexpected finds protocol. The landowner will appoint an environmental scientist to induct and provide information on hazard identification and responses to earthwork supervisors and personnel which may uncover unexpected hazards.

5. Identification of unexpected hazards

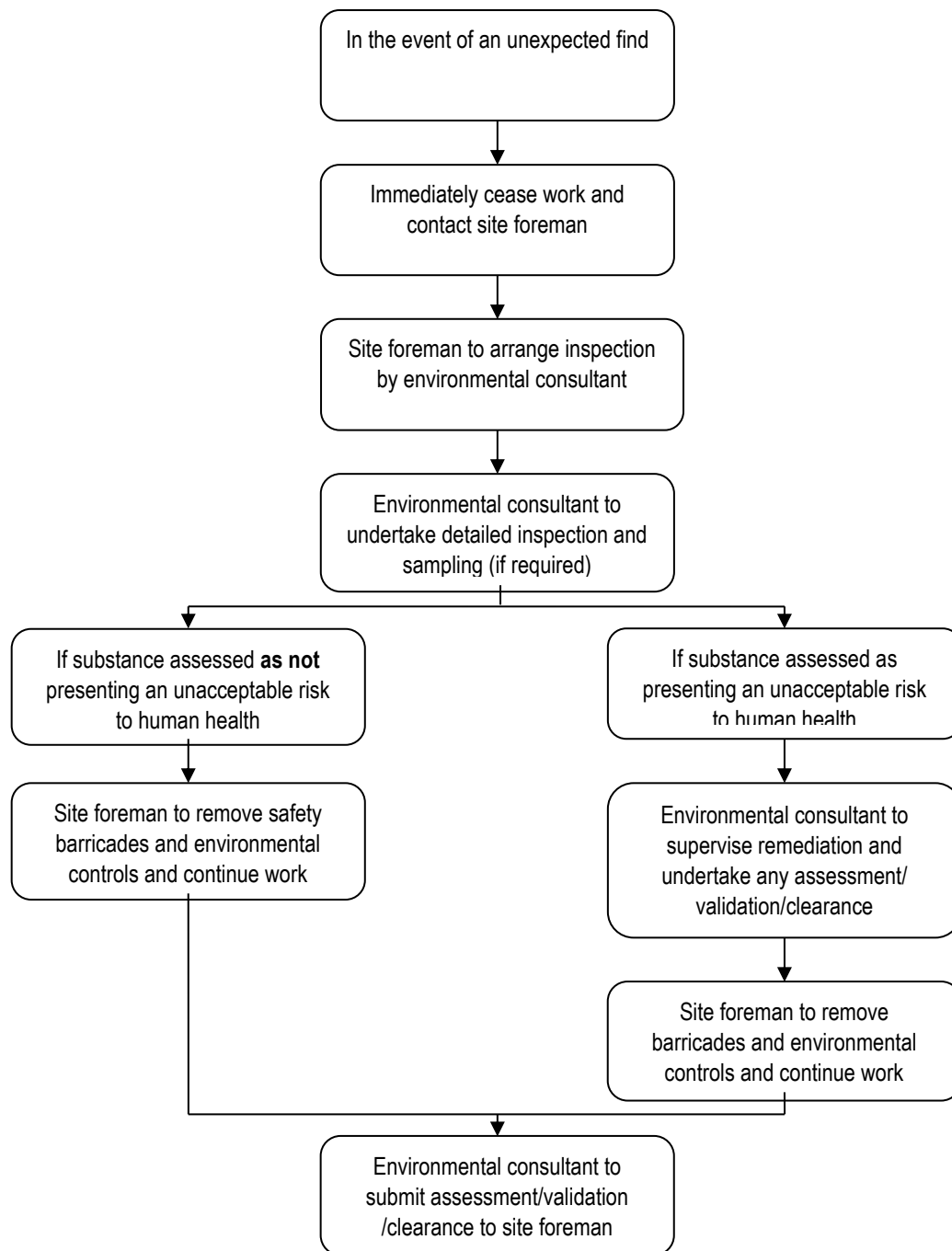
Potential hazards will be identified by appearance and odour include:

- A filled pit or gully
- Demolition waste
- Discoloured soil
- Oil/diesel/tar
- Sheens on water
- An offensive odour
- Asbestos cement sheeting
- Ash or slag
- Underground storage tank

6. Training and induction

All excavation/construction personnel are to be inducted on the identification of potential hazards. The induction can be undertaken at the time of general site induction and toolbox meetings. The training will include display of information to alert worker of potential hazards.

7. Procedure



8. Recommencement of works

The potential hazards will be assessed by the environmental scientist and a report prepared describing:

- Preliminary assessment of the contamination and need for clean-up
- Preparation of a remediation action plan
- All works to be undertaken in accordance with contaminated site regulations and guidelines
- Remediation works
- Validation of the remediation
- Works can commence on the potentially hazardous area after the environmental scientist has provided a clearance.

Information to assist workers in identifying hazards.

**BE AWARE
UNEXPECTED HAZARDS MAY BE PRESENT**



drums



asbestos



chemical bottles



blood stains



odour



ash / slag



demolition waste

if you SEE or SMELL anything unusual



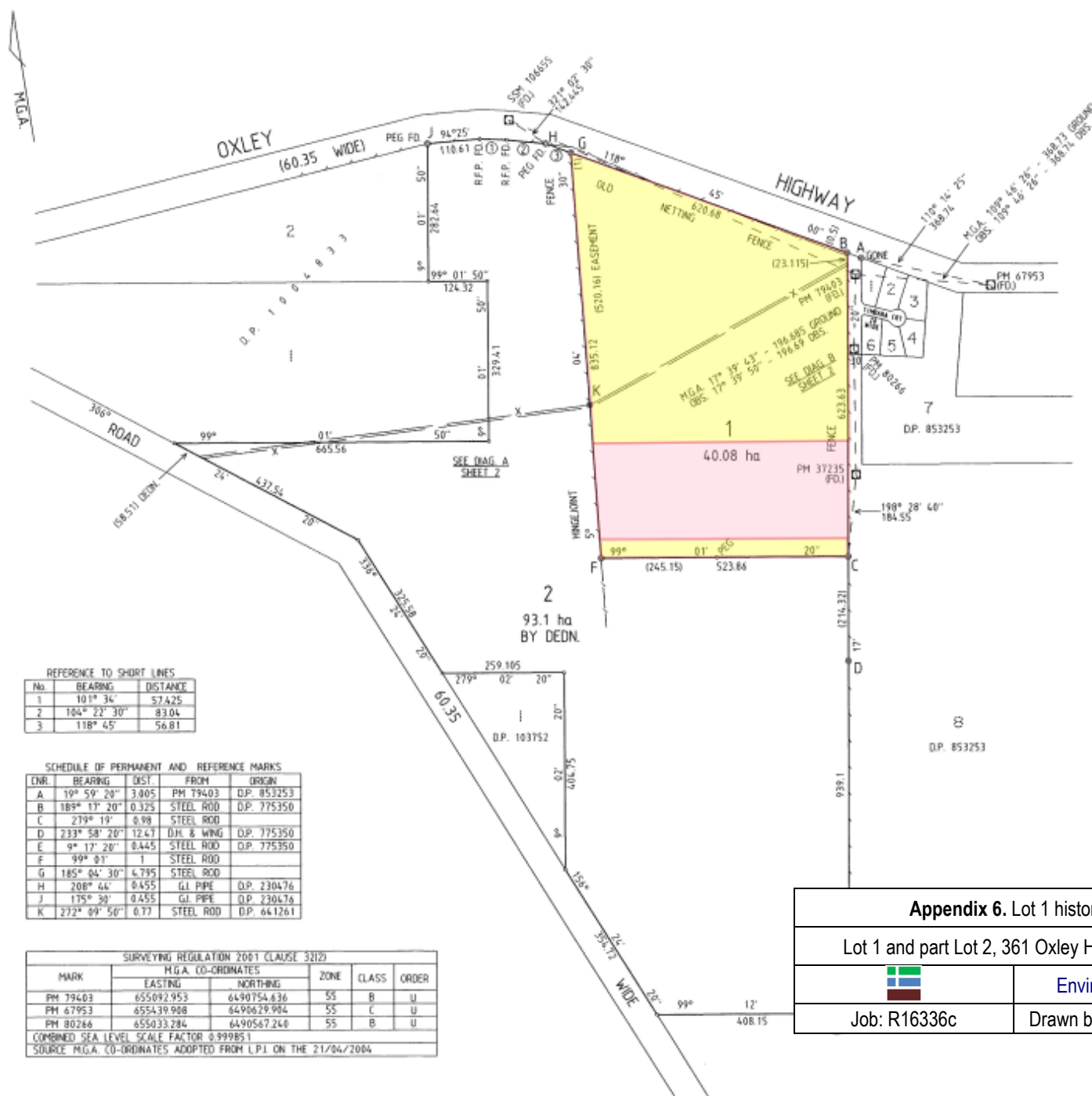
STOP WORK & contact the Site Foreman



do not restart working before the area has been investigated and cleared by an Environmental Consultant



*Robert
H. Reid*



REFERENCE TO SHORT LINES

| No. | BEARING | DISTANCE |
|-----|--------------|----------|
| 1 | 101° 34' | 57.425 |
| 2 | 104° 22' 30" | 83.04 |
| 3 | 118° 45' | 56.81 |

SCHEDULE OF PERMANENT AND REFERENCE MARKS

| ENR | BEARING | DIST. | FROM | ORIGIN |
|-----|--------------|-------|-------------|-------------|
| A | 19° 59' 28" | 3.805 | PM 794.03 | D.P. 853253 |
| B | 189° 17' 20" | 0.325 | STEEL ROD | D.P. 775350 |
| C | 279° 19' | 8.98 | STEEL ROD | |
| D | 233° 58' 20" | 12.47 | D.H. & WING | D.P. 775350 |
| E | 9° 17' 20" | 0.445 | STEEL ROD | D.P. 775350 |
| F | 99° 01' | 1 | STEEL ROD | |
| G | 185° 04' 30" | 6.795 | STEEL ROD | |
| H | 208° 44' | 0.455 | GL PIPE | D.P. 230476 |
| J | 175° 30' | 0.455 | GL PIPE | D.P. 230476 |
| K | 272° 09' 50" | 0.77 | STEEL ROD | D.P. 641261 |

SURVEYING REGULATION 2001 CLAUSE 32(2)

| MARK | M.G.A. CO-ORDINATES | | ZONE | CLASS | ORDER |
|-----------|---------------------|-------------|------|-------|-------|
| | EASTING | NORTHING | | | |
| PM 794.03 | 655092.953 | 6490754.636 | 55 | B | U |
| PM 67953 | 655439.988 | 6490629.984 | 55 | C | U |
| PM 80266 | 655033.284 | 6490567.248 | 55 | B | U |

COMBINED SEA LEVEL SCALE FACTOR 0.999851
SOURCE M.G.A. CO-ORDINATES ADOPTED FROM L.P.I. ON THE 21/04/2004

X - EASEMENT FOR PIPELINE 5 WIDE (SEE Y156324)

DP1070081

Registered 9-7-2004
 Title System: TORRENS
 Purpose: SUBDIVISION
 Ref map: PARISH #
 Last Plan: DP775350, 421.1890

PLAN OF SUBDIVISION OF LOT 920 IN D.P. 775350 AND LOT 61 IN D.P. 752554

Lengths are in metres. Reduction Ratio 1:6000

L.G.A.: GILGANDRA
 Locality: GILGANDRA
 Parish: BOBARAH
 County: EWENMAR (7)

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

Surveying Regulation, 2001
 HARVEY WILLIAM ROWE
 of LANGFORD & ROWE, P.O. BOX 373, DUBBO
 a surveyor registered under the Surveying Act 2002, hereby
 certify that the survey represented in this plan is accurate, has
 been made in accordance with the Surveying Regulation,

The survey relates to... LOT 1 AND CONNECTIONS...

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

Signature: *H. W. Rowe*
 Datum Line: PM 794.03 TO PM 67953
 Type: Urban/Rural

Plans used in preparation of survey/compilation
 D.P. 1004833 D.P. 641261
 D.P. 853253 D.P. 230476
 D.P. 103752

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

Appendix 6. Lot 1 historical subdivision
 Lot 1 and part Lot 2, 361 Oxley Highway, Gilgandra NSW

Envirowest Consulting Pty Ltd
 Job: R16336c Drawn by: FC Date: 27/11/2023

Reg: B588837 / Doc: DP 1070081 P / Rev: 12-Jul-2004 / NSW LRS / Pgs: ALL / Prt: 28-Nov-2023 09:08 / Seq: 1 of 2
 © office of the Registrar-General / Src: InfoTrack / Ref: 361 Oxley

Department of Land and Water Conservation Approval
 In approving this plan certify
 (Authorised Officer)
 that all necessary approvals in regard to the situation of the land shown herein have been given.
 Signature: _____
 Date: _____
 File Number: _____
 Office: _____

Subdivision Certificate
 I certify that the provisions of s. 100(1) of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the SUBDIVISION
 proposed. (Insert 'to be used for a new road')
 * Authorised Officer / General Manager / Authorised Officer
 Consent Authority: GILGANDRA SHIRE COUNCIL
 Date of endorsement: 21 MAY 2004
 Assessor's No.: _____
 Subdivision Certificate No.: 50204
 File No.: P0174
 Note:
 When the plan is to be lodged electronically in the Land Titles Office, it should include a signature in an electronic or digital format approved by the Registrar-General.
 * Insert whichever is applicable

SURVEYOR'S REFERENCE: 04/051 (CHECKLIST)

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

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