

## **Sunrise Project**

# Project Execution Plan Modification



## **Appendix H**Land Contamination

Assessment





## Stage 1 Land Contamination Assessment Sunrise Project Modified Rail Siding

Part of 193 Scotson Lane Trundle, NSW

> On Behalf Of: SRL Ops Pty Ltd



17 May 2021 2021-GD006-RP1-FINAL

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#### 1 Introduction

The Sunrise Project (the Project) is a nickel, cobalt and scandium open cut mining project situated near the village of Fifield, approximately 350 kilometres west-northwest of Sydney, in New South Wales (NSW). SRL Ops Pty Ltd owns the rights to develop the Project. SRL Ops Pty Ltd is a wholly owned subsidiary of Sunrise Energy Metals Limited (SEM)<sup>11</sup>.

Development Consent (DA 374 11 00) for the Project was issued under Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) in 2001. Six modifications to Development Consent (DA 374 11 00) have since been granted under the EP&A Act.

SEM has continued to review and optimise the Project design, construction and operation as part of preparations for the Project execution. The outcomes of this review are outlined in the Project Execution Plan (Clean TeQ, 2020).

The Project Execution Plan Modification (the Modification) includes the implementation of Project changes identified in the Project Execution Plan to optimise the construction and operation of the Project. The Project Execution Plan identified a number of changes to the approved mine and processing facility, accommodation camp, rail siding and road transport activities. The Modification would include the following changes to the rail siding:

- revised rail siding location and layout;
- addition of an ammonium sulphate storage and distribution facility to the rail siding;
- extension of the Scotson Lane road upgrade;
- addition of a 22 kV ETL (subject to separate approval) to the rail siding power supply; and
- increased peak operational phase workforce from approximately five to approximately 10 personnel.

Ground Doctor was commissioned by SEM to conduct a Stage 1 Preliminary Investigation of the Modified Rail Siding Site (part of Lot 1 of DP 630504), Scotson Lane, Trundle, NSW (the Study Area). The Study Area is shown on *Figure 1*.

This Stage 1 Preliminary Investigation has been prepared in accordance with clause 7 of the NSW State Environmental Planning Policy No 55 – Remediation of Land (SEPP 55), Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land (Department of Urban Affairs and Planning and Environment Protection Authority, 1998) and the NSW Environment Protection Authority (EPA) (2020a) Consultants reporting on contaminated land – Contaminated Land Guidelines.

#### 1.1 Statutory Considerations

The SEPP 55 applies to the whole of NSW and is concerned with the remediation of contaminated land. It sets out matters relating to contaminated land that a consent authority must consider in determining an application for development consent.

<sup>&</sup>lt;sup>1</sup> SEM was previously Clean TeQ Holdings Limited (Clean TeQ).

Clause 7(1) of SEPP 55 provides that a consent authority must not consent to the carrying out of any development on land unless:

- (a) it has considered whether the land is contaminated, and
- (b) if the land is contaminated, it is satisfied that the land is suitable in its contaminated state (or will be suitable, after remediation) for the purpose for which the development is proposed to be carried out, and
- (c) if the land requires remediation to be made suitable for the purpose for which the development is proposed to be carried out, it is satisfied that the land will be remediated before the land is used for that purpose.

#### Clause 7 of SEPP 55 further provides:

- (2) Before determining an application for consent to carry out development that would involve a change of use on any of the land specified in subclause (4), the consent authority must consider a report specifying the findings of a preliminary investigation of the land concerned carried out in accordance with the contaminated land planning guidelines.
- (3) The applicant for development consent must carry out the investigation required by subclause (2) and must provide a report on it to the consent authority. The consent authority may require the applicant to carry out, and provide a report on, a detailed investigation (as referred to in the contaminated land planning guidelines) if it considers that the findings of the preliminary investigation warrant such an investigation.
- (4) The land concerned is—
  - (a) land that is within an investigation area,
  - (b) land on which development for a purpose referred to in Table 1 to the contaminated land planning guidelines is being, or is known to have been, carried out...

As set out above, clause 7(2) provides that, before a consent authority determines an application for development consent, a "preliminary investigation" is required where:

- the application for consent to carry out development that would involve a "change of use";
   and
- that "change of use" is relevant to certain land specified in clause 7(4).

#### 1.2 Stage 1 Preliminary Investigation Objectives

The objective of this Stage 1 Preliminary Investigation is to address the matters referred to in clause 7 of SEPP 55, in particular:

- whether the land within the Study Area is contaminated;
- if the land within the Study Area is contaminated, whether the land is suitable in its contaminated state (or will be suitable, after remediation) for the modified rail siding; and
- if the land within the Study Area requires remediation to be made suitable for the purpose for which the modified rail siding is proposed to be carried out, whether the land will be remediated before the land is used for that purpose.

The objectives of the Stage 1 Preliminary Investigation undertaken for the Study Area were to:

- identify past and present land uses within the Study Area and within adjoining land;
- identify potential sources of land contamination associated with past or present use of the Study Area and adjoining land, and identify the associated potential contaminants of concern;

- assess the setting, and subsurface conditions at the Study Area and the surrounding environment to identify potential human health and environmental receptors;
- collect preliminary data to assess the potential for significant contamination to exist within the Study Area; and
- use the previously mentioned information to assess the suitability of the Study Area for the proposed commercial/industrial development.

#### 1.3 Scope of Work

To achieve the objectives outlined above, Ground Doctor completed the following work:

- Conducted an inspection of the Study Area to establish current conditions, surrounding land
  uses and potential human and environmental receptors located within or close to the Study
  Area.
- Reviewed and presented aerial photography of the Study Area dated 1958, 1966, 1974, 1983, 1992, 1996, 2001, 2004 and 2019 (*Annexure B*).
- Reviewed available Parkes Shire Council records related to the assessment area.
- Interviewed former landholders to obtain information related to previous uses with particular focus on the use of the Study Area.
- Obtained land titles records for the Study Area spanning the period 1915 to 2021, which outlined historical property transactions and property ownership records (*Annexure C*).
- Conducted a search of NSW EPA database for notices pertaining to the Study Area under the *Contaminated Land Management Act 1997*.
- Conducted a search of the NSW EPA public register of licences, applications and notices made under the *Protection of the Environment Operations Act 1997* (POEO Act), or records of NSW EPA regulated activities that do not require a license, related to the Study Area.
- Conducted a search of the WaterNSW registered groundwater works database to identify groundwater works located within 1 km of the Study Area.
- Conducted a search of the NSW SafeWork dangerous goods licensing database for records of dangerous goods storage within the Study Area (*Annexure D*).
- Obtained and reviewed the Section 10.7 (2) and (5) Planning Certificate for the Study Area to identify any issues relating to potential land contamination (*Annexure F*).
- Reviewed available soil and geology maps to assess subsurface conditions within the Study Area.
- Identified relevant human health and environmental risk pathways based on the proposed future use of the Study Area and identified potential contaminants of concern.
- Used all of the reviewed data to prepare a sampling and analytical plan for a preliminary surface soil assessment.
- Collected near surface soil samples at seven locations within the Study Area to assess identified potential sources of contamination within the Study Area (*Figure 2 of Annexure A*).
- Sub-contracted an analytical laboratory to analyse the seven near surface soil samples for the identified contaminants of concern.

- Developed a CSM using the site history, the site setting, preliminary soil data and the proposed future land use. The CSM was used to assess the suitability of the assessment area for the proposed Modified Rail Siding.
- Used the information obtained from the works listed above to make conclusions regarding the suitability of the Study Area for the proposed commercial / industrial use.
- Prepared this report outlining the findings of the Stage 1 Preliminary Investigation.

#### 1.4 The Modified Rail Siding

The general arrangement of the modified rail siding would include the following main components (*Figure 3* of *Annexure A*):

- rail spur2;
- site access point and internal roads;
- truck parking/loading/unloading hardstand areas;
- container storage hardstand areas;
- ammonium sulphate storage and distribution facility;
- site offices, ablution facilities, sewage system and car parking;
- equipment storage area;
- weighbridge;
- fuel storage area;
- water storage tanks;
- telecommunications:
- sediment dams, clean water diversions, runoff collection drains and other water management equipment and structures;
- landscaping and perimeter fencing; and
- other associated minor infrastructure, plant, equipment and activities.

The proposed use would be regarded as commercial / industrial in the context of this Stage 1 Preliminary Investigation.

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Stage 1 Land Contamination Assessment Part of 193 Scotson Lane, Trundle, NSW

<sup>&</sup>lt;sup>2</sup> The rail spur may not be required depending on other rail operations on the Tottenham to Bogan Gate Railway.

## 2 Study Area Description

#### 2.1 The Study Area

The Study Area is located within part of 193 Scotson Lane, Trundle, NSW. The Study Area occupies part of Lot 1 DP 630504 (*Figure 4 of Annexure A*). The extent of the Study Area is shown relative to surrounding features in *Figure 1* of *Annexure A*.

The Study Area has an area of approximately 8.3 hectares (ha).

The *Parkes Local Environment Plan 2012* (Parkes LEP) indicates that the Study Area is zoned "RU1-Primary Production".

The Study Area details are summarised in *Table 1*.

Table 1: Summary of Study Area Details

	Description	
Street Address:	Part of "Moomalong" 193 Scotson Lane, Trundle, NSW, 2875	
Lot and DP Number: Part of Lot 1 DP 630504		
Area	8.3 ha	
Local Government Area:	Parkes Shire Council	
Zoning	RU1 – Primary Production	
Geographical Coordinates (MGA94 Zone 55):	East 564110 North 6362250 (Approximate Study Area Centre)	

The modified rail siding extends into the adjacent Bogan Gate to Tottenham Railway corridor to allow movement of trains into the rail siding. Ground Doctor did not assess parts of the modified rail siding within the railway corridor as the rail siding would not change use of the corridor. Similarly, a small part of the modified rail siding extends into the Scotson Lane road reserve. Development in this area is largely restricted to vehicle access, which would not represent a change of use.

#### 2.2 Study Area Layout and Features

A Study Area inspection was conducted by Mr James Morrow of Ground Doctor on 25 February 2021. Photographs of the Study Area taken during the Study Area Inspection are presented as *Annexure E*.

The Study Area was predominantly cleared open space that appeared to have been for livestock grazing and growing of fodder crops. Some shrubs and small trees were present in the northern parts of the Study Area. Ground Doctor did not identify any evidence of existing or previous infrastructure with the exception of post and wire paddock fencing.

#### 2.3 Adjoining Land-use

At the time of the Study Area inspection, land uses adjoining the Study Area were as follows.

• The Study Area (8.3 ha) is part of a larger property ("Moomalong" approx. 34.5 ha). The house and outbuildings of the property are situated approximately 350 m north-west of the Study Area. The remainder of the Moomalong Property to the north-west and south-east of the Study Area is predominantly cleared open space that has been used for cropping and/or grazing of livestock.

- Scotson Lane is located on the north-east side of the Study Area. Land to the east of the road contains a travelling stock reserve (TSR) that is wooded with native vegetation. Agricultural land situated east of the TSR is used for cropping and/or grazing of livestock.
- The Bogan Gate to Tottenham Railway is located adjacent to the south western boundary of the Study Area. The railway consists of a single track that is surrounded by vacant open space. The Bogan Way is located to the south-west of the Bogan Gate to Tottenham Railway. Land to the south-west of The Bogan Way is used for cropping and/or grazing of livestock.

#### 2.4 Topography and Hydrology

A digital elevation model (DEM) based on Lidar survey data collected on a 2 m grid was used to plot elevation contours of the Study Area and surrounds (Figure 1). DEM data was obtained from the Australia and New Zealand Intergovernmental Committee on Survey and Mapping "ELVIS" website (https://elevation.fsdf.org.au/, 2 March 2021).

The surface contours for the Study Area and surrounds are presented as *Figure 1* of *Annexure A*.

The Study Area has a gentle gradient (approximately 1-2%) from north-west to south-east. The Study Area elevation ranges from approximately 264 m Australian Height Datum (AHD) along the north-west boundary to approximately 259 m AHD at the south-east boundary.

There was no evidence of major earthworks within the Study Area.

The Study Area generally drains to a small dam located approximately 220 m south-east of the Study Area situated on an unnamed drainage line within the Moomalong Property. The unnamed drainage lines catchment originates approx. 8 km to the north west of the Study Area and drains in a south westerly direction toward Yarrabandai Creek (approximately 12 km south west of the Study Area). Yarrabandai Creek flows in a south westerly direction into the Goobang Creek and Lachlan River.

#### 2.5 Geology

The Geological Survey of NSW (1997) "Narromine" 1:250,000 Geological Series Sheet SI55-3" indicates that the Study Area is situated on "Edols Conglomerate", which is described as "mass flow polymictic conglomerate and massive to planar bedded medium grained sandstone". The geology sheet indicates that the Edols Conglomerate is obscured by residual soils.

#### 2.6 Soil Landscape

Ground Doctor reviewed online soil mapping (NSW Government eSpade, 15 March 2021) for information on soil types within the Study Area. There was no soil landscape mapping available for the Study Area.

'Great soil groups' mapping (NSW Government eSpade, 15 March 2021) indicated the Study Area is within an area of "Earthy Sands", which are described as "a mainly sandy soil with an earthy fabric and little texture differentiation from topsoil to subsoil". Soil and land capability mapping indicates the Study Area is of 'moderate to severe limitations' (Class 4) (NSW Government eSpade, 15 March 2021).

Acid Sulphate Soil Risk Mapping (NSW Government eSpade. 15 March 2021) indicates the Study Area is situated in an area with low probability of containing acid sulphate soils.

#### 2.7 Hydrogeology

Ground Doctor conducted a search of the WaterNSW registered groundwater works database (https://realtimedata.waternsw.com.au/water.stm, 15 March 2021) for registered groundwater works located within 1 km of the Study Area. No registered groundwater works were identified within 1 km of the Study Area.

The nearest registered groundwater work GW027932, is located approximately 1.1 km south of the Study Area (Figure 1). The work summary form for GW027932 indicates that the groundwater work is a bore registered for stock watering. The bore is recorded as being 61 m deep and intersected groundwater in shale at a depth of approximately 55 m below ground level. The recorded standing water level was 24.4 m below ground level.

The relative absence of groundwater bores in the vicinity of the Study Area, combined with a low yield (0.24L/second for GW027932) suggests that water quality and yields are likely to be marginal and only suitable for stock watering.

#### 2.8 Sensitive Environments

The nearest identified sensitive environment to the modified rail siding is a small dam and unnamed drainage line located approximately 220 m to the south-east of the Study Area.

The nearest residence is located approximately 350 m north-west of the Study Area and is SEM owned.

The nearest registered groundwater work (GW027932) was located approximately 1.1 km to the south of the Study Area. No other registered groundwater works were located within 2 km of the Study Area.

## 3 Study Area History and Relevant Information

#### 3.1 Aerial Photography Review

Ground Doctor reviewed aerial photographs of the Study Area dated 1958, 1966, 1974, 1983, 1992, 1996, 2001, 2004 and 2019. The photographs reviewed are presented as *Annexure B*.

#### 3.1.1 The Study Area

The aerial photograph record over the Study Area commences in 1958. The 1958 photograph the Study Area depicts a lot which is partially cleared open space and partially wooded. Vegetation which appears to be woody scrub is present north-west to south-east across the centre of the Study Area which may be associated with a potential minor drainage line. The Study Area appears to be used for livestock grazing.

The Study Area appears mostly unchanged in the 1966 aerial photograph. The open areas around the remaining vegetation appears to be used for fodder cropping.

In the 1974 aerial photograph the Study Area has been cleared of all remaining woody vegetation, and the abovementioned potential minor drainage line (1958) appears to be no longer present. The Study Area appeared to be used for cropping. The Study Area is cleared open space in the 1983, 1992 and 1996 aerial photos.

In the 2001, 2004 and 2019 aerial photographs, the Study Area remains cleared open space with the exception of gradual re-establishment of some woody scrub and small trees in the northern corner of the Study Area. In the 2019 aerial photograph, the southern portion of the Study Area appears to be used for fodder cropping whilst the northern portion appears to be used for livestock grazing only. The gradual reestablishment of woody scrub in the northern portion of the Study Area suggests that only the southern portion was cropped in later years.

There is no infrastructure visible within the Study Area in any of the aerial photographs with the exception of post and wire paddock fencing.

#### 3.1.2 Adjacent Land Use

The Bogan Gate to Tottenham Railway is present at the south western boundary in all photographs reviewed. The Bogan Way is not present in the 1958 aerial photograph. The Bogan Way is first visible in the 1974 aerial photograph and is present in all subsequent aerial photographs.

A road is visible along the north eastern boundary in all historic aerial photographs in the present day location of Scotson Lane. Scotson Lane is believed to have been the main road between Trundle and Tullamore, prior to the construction of The Bogan Way sometime preceding to the 1974 aerial photograph.

The travelling stock reserve is visible on the north east side of Scotson Lane in all aerial photographs.

All other surrounding land appears to be used for livestock grazing and/or fodder cropping in all aerial photographs. There is no major infrastructure present in adjacent land with the exception of the Bogan Gate to Tottenham Railway.

#### 3.2 Council Records

Ground Doctor spoke to Ms Alana Ryan of Parkes Shire Council on Friday 12 February 2021 to request a search of available property files for address associated with the Study Area (Section 2.1).

Alana Ryan searched the Council property file record database during the phone call and indicated that there were no records for the address associated with the Study Area within Council records, which dated back to 1974.

#### 3.3 Land Title Records

A search of land titles records was undertaken by Advanced Legal Searchers on behalf of Ground Doctor. The search retrieved property records dating back to 1915. Results of the search are presented as *Annexure C*.

Land now described as Lot 1 DP 630504 was originally comprised of two larger parcels of land which spanned from Scotson Lane in the north east, up to 1 km south-west of the Bogan Gate to Tottenham Railway. One of the original parcels of land was wholly outside the Study Area. In 1983, parts of the two parcels of land north east of the Bogan Gate to Tottenham Railway were amalgamated into Lot 1 DP 630504. At the same time land on the south eastern side of the Bogan Gate to Tottenham Railway was given a new title.

The history of property ownership of land within the Study Area, as recorded in the land title search results (*Annexure C*), is summarised in *Table 2*.

Table 2: Summary of Study Area Historical Ownership

Period	Period Study Area Owner / Lease Details				
Lot 1 DP 630504					
2018 – to date	SRL Ops Pty Ltd (ACN 008 755 155)				
2007 – 2018	Colin Rupert Grinter				
	Valda Ruth Grinter				
1996 – 2007	Graeme Anders Stephensen				
1990 – 1996	Leslie Beaumont Miell, motor mechanic				
	Elizabeth Adriana Miell, his wife				
1988 – 1990 William Edward Ford					
	Lot 1 DP 630504 - CTVol 15024 Fol 217				
1983 – 1988	William Edward Ford				
1979 – 1983	Terrence John Green, farmer				
Portion 94 Parish	Portion 94 Parish Trundle – Area 231 Acres 3 Roods 30 Perches – CTVol 8047 Fol 20				
1979 – 1979	Terrence John Green, farmer				
1977 – 1979	James Frederick Fitzsimmons, farmer				
	Dorothy Fitzsimmons, his wife				
1967 – 1977	Jeffery Bertram Frogley, farmer				
1967 – 1967	Percival Oscar Fleming, farmer				
1960 – 1967	0 – 1967 Rural Bank of New South Wales, grantee				
(Percival Oscar Fleming, farmer, mortgagor)					
Portion	94 Parish Trundle – Area 231 Acres 3 Roods 30 Perches				
Prior – 1960	Crown Land				
(1927 – 1960)	(Conditional Purchase 1927/7 Parkes)				

The land was owned by SEM at the time of Assessment.

Land within the Study Area was Crown Land until 1960 but had a conditional purchase over it suggesting it was most likely occupied prior to 1960.

Recorded occupations of previous owners of the Study Area included farmer, and motor mechanic. Aerial photographs of the Study Area taken in the period 1990-1996 (when the Study Area was owned by a "motor mechanic") show no evidence to suggest the Study Area or the immediate surrounds were used to maintain or store motor vehicles.

#### 3.4 Interview with Former Land Owner

Ground Doctor conducted an informal interview by telephone with the former owner, Ms Ruth Grinter, on 25 February 2021.

Ruth Grinter indicated that her and her husband Colin Grinter had used the property to graze a small number of livestock which included up to 20 cows, 60 sheep or 60 goats at any one time. There was no formal livestock pest treatment area. Livestock were penned and treated for pests in a small laneway (paddock) adjacent to Scotson Lane in an area located to the north-west of the Study Area.

Ruth Grinter indicated that the previous owners had used to property to keep horses.

Ruth Grinter indicated the original "Trundle Hotel" had been located approximately 70 m south-east of the Study Area. The Hotel had fronted what is now Scotson Lane, which was previously the main road between Trundle and Tullamore. Land title records presented in *Annexure C* include information for land previously occupied by the hotel. The land title records indicate that land to the south-east of the Study Area was owned by a "hotel keeper" until 1915. The hotel was later moved into the modern Trundle township.

Ruth Grinter also indicated that part of the property had been used as a market garden in the late 1800's. It was believed that market gardeners grew produce along the drainage line approximately 200 m south of the Study Area.

#### 3.5 SafeWork NSW Dangerous Goods License Search

Ground Doctor conducted a search of the SafeWork NSW dangerous goods licencing records pertaining to the Study Area. A copy of the search result is presented as *Annexure D*.

SafeWork NSW indicated that they did not hold any records for the Study Area.

#### 3.6 NSW EPA Notified Contaminated Sites

Ground Doctor conducted a search of the NSW EPA list of sites notified under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) (NSW EPA, 2020b). The search was conducted on 15 March 2021. There were no notifications listed for the Study Area or for Trundle.

Ground Doctor conducted a search of the NSW EPA list of sites for which orders or notices have been made under the provisions of the CLM Act (NSW EPA, 2020c). The search was conducted on 15 March 2021. There were no records identified for the Study Area or for Trundle.

#### 3.7 Protection of the Environment Operations Act 1997 Registers

The NSW EPA maintains a list of activities which are licensed under the POEO Act (NSW EPA, 2020d). There were no licensed activities within the Study Area or for Trundle.

#### 3.8 Naturally Occurring Asbestos

The Study Area is not situated within an area that is mapped as being a naturally occurring asbestos risk area (NSW Resources and Geoscience, 2019).

#### 3.9 Section 10.7 Planning Certificate

Ground Doctor obtained a copy of the Section 10.7 Planning Certificate for the Study Area from Parkes Council. The Planning Certificate is presented as *Annexure F*.

The Section 10.7 (2) Planning Certificate dated 11 March 2021 states that the Study Area is not on the Parkes Council register of contaminated sites.

The Section 10.7 (5) Planning Certificate dated 11 March 2021 (*Annexure F*) states that, pursuant to section 59(2) of the CLM Act, the Study Area is:

- Not within land declared to be significantly contaminated land under Part 3 of that Act;
- Not subject to a Management Order in the meaning of that Act;
- Not the subject of an approved Voluntary Management Proposal of the EPA's agreement under section 17 of that Act;
- Not subject to an ongoing Maintenance Order under Part 3 of that Act;
- Not the subject of a Site Area Audit Statement within the meaning of Part 4 of that Act.

## 4 Preliminary Sampling and Analytical Plan

The Data Quality Objectives (DQO) process was used to develop a preliminary sampling and analytical plan.

#### 4.1 State the Problem

#### 4.1.1 Potential Areas of Environmental Concern

Ground Doctor assessed potential areas of environmental concern within the Study Area based on the information presented in *Sections 2 and 3*. Potential areas of environmental concern are summarised in *Table 3*.

Table 3: Summary of Potential Areas of Environmental Concern

Potential Area of Environmental Concern	Summary of Issue	Potential Contaminants of Concern	
Former Agricultural Use	Study Area historical information indicates that land within and adjacent to the Study Area was likely used for livestock grazing and growing of fodder crops. Market gardening activities may also have occurred; however, these would have pre-dated modern agricultural chemical use.  Pesticides, herbicides and/or fertilisers are likely to have been applied to the Study Area during previous agricultural use. Soil most likely to have been impacted by this activity is near surface soil, as chemical is typically applied at the ground surface. The potential sources of impact are diffuse. If significant contamination existed, it would be expected to be distributed uniformly across areas where chemical had been applied.	Organochlorine pesticides (OCPs), organophosphorus pesticides (OPPs) and metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc).	
Railway Activity	The Bogan Gate to Tottenham Railway is located to the south-west immediately adjacent the south western margin of the Study Area. Railway activities with most potential to contaminate land typically occur within yards and maintenance areas, or in areas with sidings where trains may have been loaded and unloaded.  The railway adjacent to the Study Area consisted of a single track. There was no evidence of previous siding or yards.  Potential sources in this setting include movement of material from the railway into the Study Area (e.g. shedding of train brake material which may contain asbestos, application of herbicides to control vegetation along the corridor, disposal of products of combustion from steam locomotives and spill of hydrocarbon fuels).  The identified railway was considered to pose low risk of potential contamination.	Total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), OCPs, OPPs, metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc), phenoxy acid herbicides and asbestos.	

#### 4.1.2 Consideration of Exposure Pathways

The identified potential areas of environmental concern have low potential to have resulted in significant land contamination.

The identified potential contaminants of concern include non-volatile and volatile chemicals. Relevant exposure pathways for the identified contaminants of concern would be:

- direct contact with soil;
- inhalation of dust generated from exposed soil at the surface; and

vapour inhalation.

Potential environmental exposure pathways relevant to the assessment are:

• Ecological impacts to flora and fauna in undeveloped open areas of the Study Area.

#### 4.1.3 Nature of the Identified Potential Sources

The identified potential sources of contamination were above ground sources most likely to have impacted near surface soil (if impacts had occurred). Specific point sources of contamination were not identified within the Study Area. The identified potential sources of concern were diffuse and would be expected to have resulted in uniform impacts across the Study Area adjacent to the rail corridor (if impacts had occurred).

#### 4.2 Identify the Decision

The primary objective of this assessment was to assess the suitability of the Study Area for the proposed commercial / industrial use (i.e. the modified rail siding).

#### 4.3 Identify Inputs to the Decision

A desktop assessment of the Study Area history was used to identify past land uses that had potential to result in land contamination within the assessment area (i.e. the Study Area). The findings of the desktop assessment are summarised in *Section 4.1.1*.

A total of seven preliminary soil surface samples were collected at selected locations within the Study Area (*Figure 2 of Annexure A*).

The need for a more detailed Stage 2 assessment was to be evaluated based on the results of preliminary soil sampling and analysis. If significant impacts were not observed in near surface soil within the Study Area then it was unlikely that significant contamination existed in those areas.

#### 4.4 Define the Assessment Area Boundary

The assessment area boundary (i.e. the Study Area) is marked on Figure 2 of Annexure A.

Characterisation of potential soil impacts by sampling and analysis was limited to the assessment area.

#### 4.5 Decision Rule - How to Assess Risk

Ground Doctor used field observations to identify potential aesthetic impacts such as discolouration and odour.

Soil analytical data was assessed against Soil Investigation Levels (SILs) published in the National Environment Protection Council (NEPC) (1999) *National Environment Protection (Assessment of Contamination) Measure* (NEPM) (amended April 2013).

The SILs comprise a range of thresholds for assessment of risks to human health and the environment. The adopted SILs are discussed in the following sections and summarised in *Table 4*.

#### 4.5.1 Health Screening Levels

The NEPM (2013) health screening levels (HSLs) for petroleum hydrocarbons were used to assess soil analytical results. Ground Doctor adopted the "HSL D" sub-category, which is applicable to commercial or industrial land use. The HSLs are used to assess potential vapour intrusion risks associated with subsurface contaminants. That is, to assess whether hydrocarbon vapour from soil contamination has the potential to migrate into an overlying building or into a nearby building at an unacceptable concentration.

#### 4.5.2 Health Investigation Levels

Ground Doctor adopted Health Investigation Levels (HILs) outlined in the NEPM (2013) for assessment of potential human health impacts in soil. Ground Doctor adopted the "HIL D" sub-category, which is applicable to commercial or industrial land use. The adopted screening thresholds are summarised in *Table 4*.

Where no HIL was published for analytes of concern, Ground Doctor used detection of any such compound as preliminary screening criteria.

#### 4.5.3 Ecological Screening Levels

The Ecological Screening Levels (ESLs) are designed to assess potential impacts of petroleum hydrocarbons in soil to flora and fauna. The ESLs apply to soil encountered within the upper 2 m of the subsurface only and are not applicable for areas of the Study Area that would be paved or covered by buildings.

#### 4.5.4 Ecological Investigation Levels

Ground Doctor adopted Ecological Investigation Levels (EILs) outlined in the NEPM (2013) for assessment of potential ecological impacts in soil. Ground Doctor adopted the published EILs for "commercial / industrial" land use as preliminary screening thresholds. The adopted screening thresholds are summarised in *Table 4*.

#### 4.5.5 Management Limits

Results exceeding Management Limits should trigger consideration of other potential risks to human health. These may include, potential for groundwater contamination, potential for free phase light non-aqueous phase liquid (LNAPL) to be present, potential for vapour to impact underground services or infrastructure and potential for land users, public or maintenance workers to come into direct contact with soil.

Ground Doctor adopted Management Limits for commercial or industrial land use.

#### 4.5.6 Asbestos

Ground Doctor adopted detection of asbestos as a preliminary screening threshold.

Table 4: Adopted NEPM (2013) Soil Investigation Levels

	NEPM SILs			
Analyte	HSL D Sand - 0-<1m	EIL / ESL - Comm/Ind (Fine Grain)	Management Limits - Comm / Ind (Fine Grain)	HIL D
TRH and BTEXN				
TRH C6 - C10	-	215	800	na
TRH C6 - C10 less BTEX	260	-	-	na
TRH >C10-C16	-	170	1000	na
TRH >C10 - C16 less Naph	NL	-	-	na
TRH >C16-C34	NL	2500	5000	na
TRH >C34-C40	NL	6600	10000	na
Benzene	3	95	-	na
Toluene	NL	135	-	na
Ethylbenzene	NL	185	-	na
naphthalene	NL	370	-	na
Total +ve Xylenes	230	95	-	na
PAHs				
Naphthalene	NL	370	na	-
Benzo(a)pyrene	na	0.7	na	-
Total +vePAH's	na	na	na	4000
Benzo(a)pyrene TEQ	na	na	na	40
OCPs				
HCB	na	na	na	80
Heptachlor	na	na	na	50
Aldrin	na	na	na	45a
gamma-Chlordane	na	na	na	530b
alpha-chlordane	na	na	na	530b
Endosulfan I	na	na	na	2000d
DDE	na	na	na	3600c
Dieldrin	na	na	na	45a
Endrin	na	na	na	100
Endosulfan II	na	na	na	2000d
DDD	na	na	na	3600c
DDT	na	640	na	3600c
Methoxychlor	na	na	na	2500
Total +ve DDT+DDD+DDE	na	na	na	3600
OPPs			<u>'</u>	
Chlorpyriphos	na	na	na	2000
Phenoxy Acid Herbicides				
2,4,5-T	na	na	na	5000
2,4-D	na	na	na	9000
MCPA	na	na	na	5000
MCPB	na	na	na	5000
Mecoprop	na	na	na	5000
Picloram	na	na	na	35000
Metals			<u>'</u>	
Arsenic	na	160	na	3000
Cadmium	na	-	na	900
Total Chromium	na	310*	na	3600
Copper	na	85*	na	240000
Lead	na	1800	na	1500
Mercury	na	na	na	730
Nickel	na	55*	na	6000
Zinc	na	110*	na	400000
All thresholds expressed as m		110		

All thresholds expressed as mg/kg.

na – not applicable.

NL - non-limiting. The compound(s) do not pose an unacceptable vapour risk, even when NAPL is present.
a – threshold applies to the sum of aldrin and dieldrin.
b – threshold applies to the sum of alpha and gamma chlordane.
c – threshold applies to the sum of DDE, DDD and DDT

d – threshold applies to the sum of endosulfan 1 and 2.

<sup>\*-</sup> EIL is the most conservative "Added Contaminant Limit", not total concentration

#### 4.5.7 Soil Decision Rule

The adopted assessment criteria were not intended to be Study Area suitability criteria. The assessment criteria were intended to provide some preliminary limits which prompt further consideration of Study Area specific conditions, or more detailed assessment, if exceeded.

#### 4.6 Specify Limits on Decision Errors

Ground Doctor collected and analysed a field duplicate sample for quality assurance and quality control (QAQC) purposes. Ground Doctor adopted the following criteria with which to assess the results of duplicate sampling:

- Calculated relative percentage difference (RPD) values should be less than 50% where the reported concentrations of analytes are greater than 10 times the estimated quantification limit (EQL);
- Calculated RPD values should be less than 75% where the reported concentrations of analytes are greater than 5 times the EQL but less than 10 times the EQL; and
- Calculated RPD values should be less than 100% where the reported concentrations of analytes are less than 5 times the EQL.

#### 4.7 Optimise the Design for Collecting Data

Soil sampling locations are shown in *Figure 2* of *Annexure A*.

Soil samples (SS01-SS04) were collected from the upper 0.2 m of soil adjacent to the Bogan Gate to Tottenham Railway corridor. Soil samples collected adjacent to the railway corridor were analysed for TRH, BTEX, PAHs, OCPs, OPPs, phenoxy acid herbicides, metals and asbestos.

Soil samples SS05-SS07 were collected from the upper 0.2 m across the remainder of the Study Area where livestock grazing and cropping had occurred. Soil samples collected from these locations were analysed for OCPs, OPPs and heavy metals.

Soil sampling locations were selected using an informal systematic pattern to achieve an even coverage along the adjacent railway boundary and within former livestock grazing and cropping areas.

#### 4.7.1 Quality Assurance and Quality Control

A field duplicate sample ("DUPA0") was collected at "SS01" to assess the repeatability of the adopted soil sampling and analytical procedures.

#### 4.7.2 Sampling Methodology

Soil samples were collected by hand from near surface soils. A hand tool was used to break up near surface soil. Care was used to ensure the sampled soil had not come into direct contact with the hand tool.

The sampler wore clean disposable nitrile gloves at each sampling location. Samples were placed directly into new laboratory supplied 125 millilitre glass jars that were labelled with appropriate sample identification, the project identification and sampling date.

Additional samples were placed into plastic snap lock bags to allow field screening with a photo ionisation detector (PID) to assess the presence of volatile organic compounds (VOCs).

Soil samples were placed on ice inside an esky immediately after collection.

#### 4.7.3 Soil Sample Analysis

Sample analysis was sub-contracted to Eurofins (Sydney). The soil samples were sent to Eurofins by express overnight courier. Eurofins has National Association of Testing Authorities (NATA) accreditation for the proposed analysis and used analytical methods which comply with the NEPM (2013) guidelines.

### 5 Preliminary Soil Assessment Results

#### 5.1 Field Observations

Ground Doctor did not identify any areas of surface staining or signs of distressed vegetation within the Study Area during the site inspection.

Ground Doctor did not identify any potential asbestos containing material within the Study Area during the site inspection.

The near surface soil samples were comprised of silty sandy clay that was brown, dry and had low plasticity.

Soil samples were free of discolouration and unnatural odour. Field screening of soils with a PID indicated that sample headspace for all samples contained VOC concentrations less than 0.5 parts per million (ppm).

#### 5.2 Analytical Results

Soil analytical results are summarised and compared to the adopted SILs in *Table G1* of *Annexure G*.

The laboratory Certificate of Analysis for preliminary soil samples is presented as *Annexure H*.

The reported concentrations of TRH, BTEX, PAHs, OCPs, OPPs, phenoxy acid herbicides were less than the laboratory limit of reporting (LOR) and the adopted SILs.

Reported concentrations of metals in soil did not exceed the adopted SILs and appeared indicative of background concentrations.

Asbestos was not detected in any soil sample.

## 6 Quality Assurance and Quality Control

Multiple sources of information were used to establish the Study Area history. Sources were cross checked and where overlap occurred, were found to be consistent.

Surface soil was sampled in a systematic manner across the Study Area. The sampling density was low but considered appropriate for assessing the identified potential sources of environmental concern, which were diffuse.

The sampler wore clean disposable nitrile gloves when collecting each sample to minimise cross contamination. Where a hand tool was used to break soil for sampling, care was taken to collect soil that had not come into direct contact with the hand tool.

Ground Doctor labelled samples appropriately and placed samples on ice in an esky immediately after collection. Samples remained on ice until they were sent to the analytical laboratory. Samples were sent by overnight courier service to minimise transit time and ensure samples remained on ice whilst in transit.

A field duplicate sample was analysed to assess the repeatability of the sampling and analytical procedure. Analytical results for the duplicate and primary sample are presented in *Table G2* of *Annexure G*. Reported concentrations of all analytes except metals were below the LOR, so an RPD could not be calculated. For metals, the RPDs ranged from 0-12%. Duplicate sample results indicated that field procedures and laboratory analysis could achieve repeatable results.

Eurofins performed a number of quality assurance checks as part of the analytical procedures. These include, adding and recovering surrogate compounds to each sample, spiking some samples to measure recovery, analysing blank samples to check for false positives and analysis of laboratory duplicate samples. Ground Doctor reviewed lab QAQC data and found that all results were within the laboratory performance criteria.

The level of data QAQC was considered appropriate given the objective of the assessment. Results for QAQC parameters indicate that data was of acceptable quality to assess potential risks to human health and the environment associated with the Study Area. The data could be relied upon to make the conclusions outlined in *Section 7*.

#### 7 Conclusions

The Study Area history and setting were assessed using a range of data sources. The identified potential areas of concern were:

- Livestock grazing and cropping across the Study Area.
- Railway activity along the south western boundary of the Study Area.

The potential for these activities to have caused (unacceptable) land contamination was considered low.

Preliminary soil sampling and analysis was undertaken in the Study Area to quantify potential contamination associated with the potential areas of concern. Results of soil sample analysis indicated there was no significant (unacceptable) impacts to soil within the Study Area, and therefore the likelihood (unacceptable) contamination occurring within the Study Area is low.

The results of the investigation indicate that the Study Area is suitable for the proposed commercial / industrial development in its current state.

### 8 Limitations of this Report

The findings of this report are based on the Scope of Work outlined in *Section 1.3* and detailed in later sections of this report. Ground Doctor performed the services in a manner consistent with the normal level of care and expertise exercised by members of the environmental consulting profession. No warranties, express or implied are made.

The results of this assessment are based upon the information documented and presented in this report. All conclusions and recommendations regarding the Study Area are the professional opinions of Ground Doctor personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, Ground Doctor assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Ground Doctor, or developments resulting from situations outside the scope of this project.

Ground Doctor assessed soil within the Study Area for potential contaminants of concern related to previous use of the Study Area. The absence of the compounds of concern in soil samples cannot be interpreted as a guarantee that such materials, or other potentially toxic or hazardous compounds, do not exist at the Study Area in soil or other media.

The results of this preliminary investigation are based on the Study Area conditions identified at the time of the investigation. Ground Doctor will not be liable to revise the report to account for any changes in Study Area characteristics, regulatory requirements, guidelines or the availability of additional information, subsequent to the issue date of this report. Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

Statements in this report regarding the suitability of the Study Area for commercial / industrial use are made on the basis of risks posed by land contamination (if any), not on any other basis.

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#### 9 References

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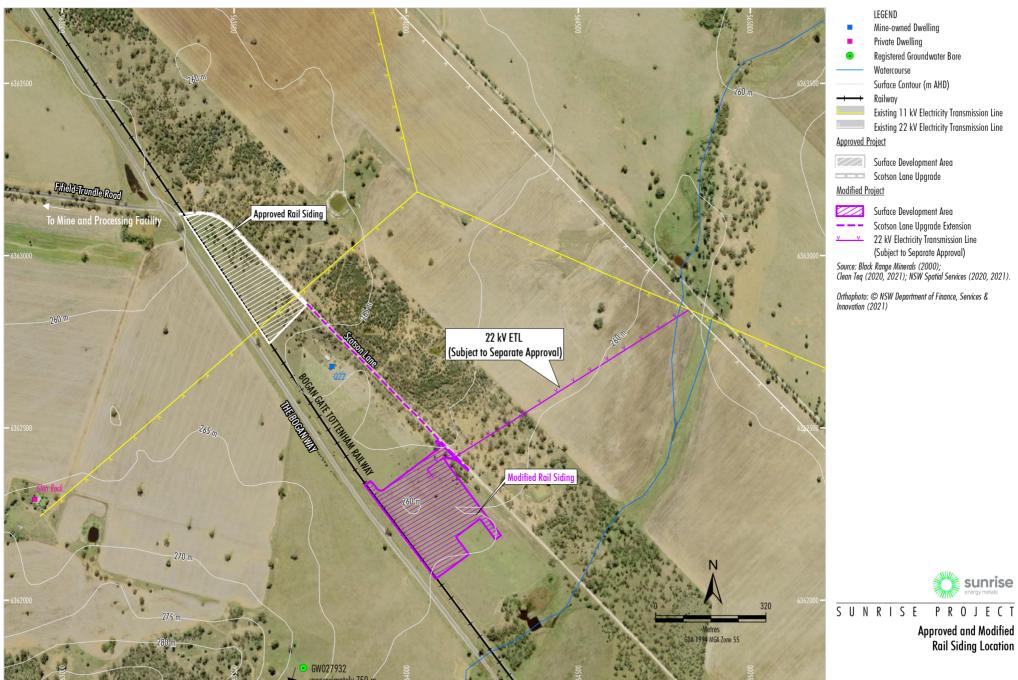
Website: https://realtimedata.waternsw.com.au/water.stm.

Accessed: 15 March 2021

Parkes Local Environment Plan 2012.

## Annexure A

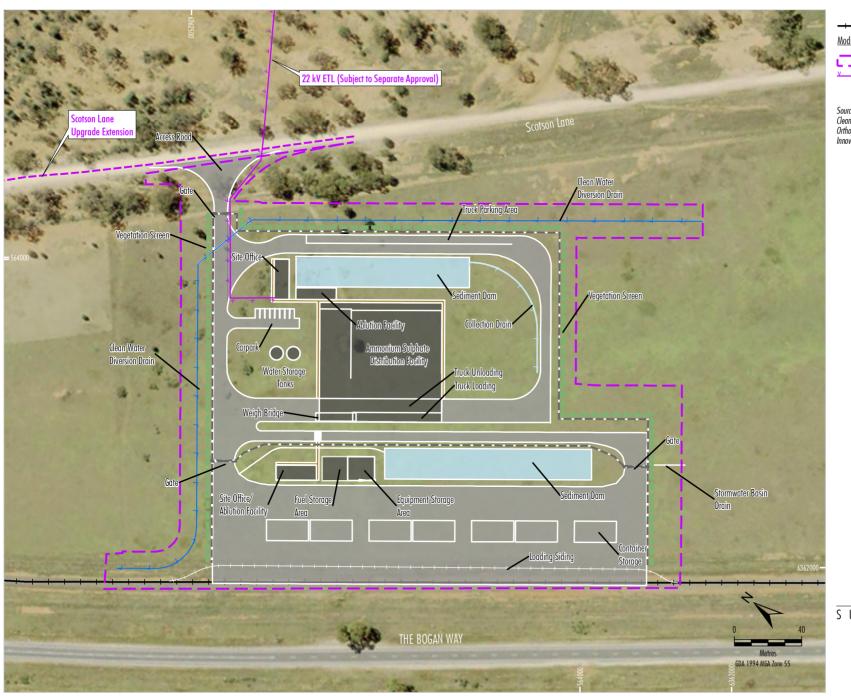
**Figures** 



CTL-20-08 MOD 7\_LCA\_Rail\_202A

Figure 1





Railway Modified Project Surface Development Area

LEGEND

22 kV Electricity Transmission Line (Subject to Separate Approval)

Source: Black Range Minerals (2000); NSW Spatial Services (2020);

Clean Teg (2021).
Orthophoto: © NSW Department of Finance, Services &
Innovation (2020)



SUNRISE PROJECT

**Modified Rail Siding General Arrangement** 

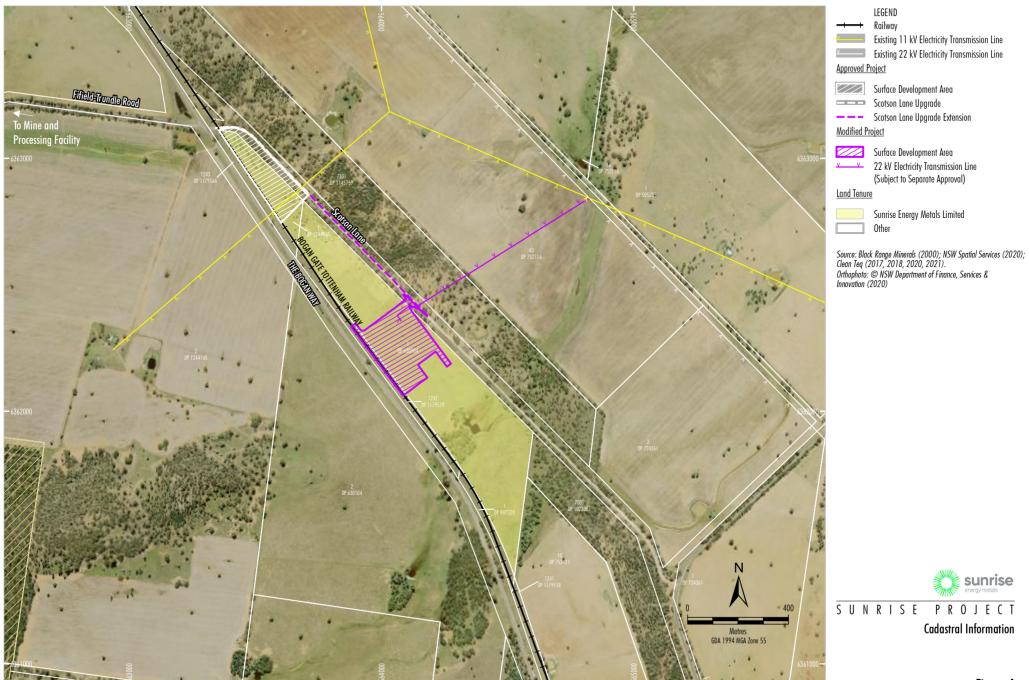


Figure 4

## Annexure B

**Aerial Photographs** 



Date: 25 Feb 2021

Reference: LS017956 EA

Address: The Bogan Way, Trundle, NSW 2875

## **Aerial Imagery 2019**

The Bogan Way, Trundle, NSW 2875





## Aerial Imagery 2004 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 2001 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 1996 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 1992 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 1983 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 1974 The Bogan Way, Trundle, NSW 2875





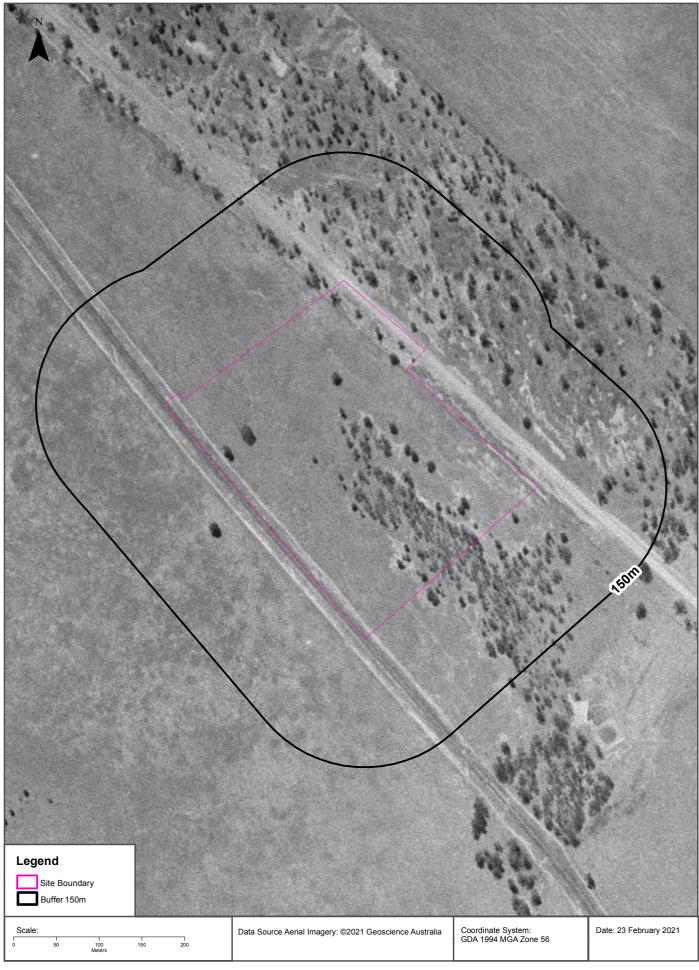
# Aerial Imagery 1966 The Bogan Way, Trundle, NSW 2875





# Aerial Imagery 1958 The Bogan Way, Trundle, NSW 2875





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### Annexure C

**Land Titles Search Results** 

#### ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 943 842) ABN 82 147 943 842

18/36 Osborne Road, Manly NSW 2095 Telephone: +612 9977 6713 Mobile: 0412 169 809 Email: search@alsearchers.com.au

15<sup>th</sup> February, 2021

GROUND DOCTOR PTY LTD 22 Tamworth Street, PO Box 6278 DUBBO. NSW 2830

Attention: James Morrow,

RE: The Bogan Way, Trundle

#### **Current Search**

Folio Identifier 1/630504 (title attached) DP 630504 (plan attached) Dated 13<sup>th</sup> February, 2021 Registered Proprietor: CLEAN TEQ SUNRISE PTY LTD

### Title Tree Lot 1 DP 630504

Folio Identifier 1/630504

Certificate of Title Volume 15024 Folio 217

(a) (b)

CTVol 2525 Folio 48 CTVol 13814 Folio 212

\*\*\*\* CTVol 8047 Folio 20

Crown Land

\*\*\*\*

### **Summary of proprietor**(s) **Lot 1 DP 630504**

Year Proprietor(s)

	(Lot 1 DP 630504)
2018 – todate	Clean Teq Sunrise Pty Ltd (ACN 008 755 155)
2007 - 2018	Colin Rupert Grinter
	Valda Ruth Grinter
1996 - 2007	Graeme Anders Stephensen
1990 – 1996	Leslie Beaumont Miell, motor mechanic
	Elizabeth Adriana Miell, his wife
1988 - 1990	William Edward Ford
	(Lot 1 DP 630504 – CTVol 15024 Fol 217)
1983 – 1988	William Edward Ford
1983 – 1983	Terrence John Green, farmer

See Notes (a) & (b)

#### Note (a)

	(Portions 7 & 8 Parish Trundle – Area 76 Acres 0 Roods 12 ½
	Perches – CTVol 2525 Fol 48)
1979 - 1983	Terrence John Green, farmer
1977 – 1979	James Frederick Fitzsimmons, farmer
	Dorothy Fitzsimmons, his wife
1967 - 1977	Jeffery Bertram Frogley, farmer
1949 – 1967	Percival Oscar Fleming, farmer
1939 – 1949	Joseph William Simpson, farmer
1926 - 1939	Terrence Edward Kitamura, student
1915 – 1926	Alfred Oscar Hollibone, farmer and grazier
1914 – 1915	Oswald Ernest Ingram, hotel keeper

\*\*\*\*

#### Note (b)

	(Portion 94 Parish Trundle – CTVol 13814 Fol 212)
1979 – 1983	Terrence John Green, farmer
	(Portion 94 Parish Trundle – Area 231 Acres 3 Roods 30 Perches –
	CTVol 8047 Fol 20)
1979 - 1979	Terrence John Green, farmer
1977 – 1979	James Frederick Fitzsimmons, farmer
	Dorothy Fitzsimmons, his wife
1967 - 1977	Jeffery Bertram Frogley, farmer
1967 – 1967	Percival Oscar Fleming, farmer
1960 – 1967	Rural Bank of New South Wales, grantee
	(Percival Oscar Fleming, farmer, mortgagor)
	(Portion 94 Parish Trundle – Area 231 Acres 3 Roods 30 Perches)
Prior – 1960	Crown Land
(1927 - 1960)	(Conditional Purchase 1927/7 Parkes)

\*\*\*\*



#### Cadastral Records Enquiry Report: Lot 1 DP 630504

Locality: TRUNDLE

LGA: PARKES

Parish: TRUNDLE

**County:** CUNNINGHAM

46 13 DP 752089 30 GIBSONS LANE DP 752116 DP 505235 40 FIFELD-TRUNDLE RD 12 DP 1244165 2 PARKES SHIIRE DP 734361 DP 509420 DP 5943 DP 630504 DP 734361 DP 752117 DP 752121\ ड्रे 10 DP 752121 20 DP 752121 86 DP 5943 DP 752121 89

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

DP 75212<sup>3</sup>

0 160320480640 Metres

Ref: NOUSER



Cadastral Records Enquiry Report: Lot 1 DP 630504

Parish: TRUNDLE

Ref: NOUSER

Locality: TRUNDLE LGA: PARKES **County: CUNNINGHAM** 

Status Surv/Comp **Purpose** 

DP5943 Lot(s): 3

P1145374 REGISTERED SURVEY SURVEY INFORMATION ONLY

DP867279 Lot(s): 20

P1051493 **SURVEY** SURVEY INFORMATION ONLY REGISTERED

DP1179558 Lot(s): 1241

CA163950 - LOT 1241 DP1179558

DP1179559 Lot(s): 1242

CA163951 - LOT 1242 DP1179559

DP1179564 Lot(s): 1243

P CA163957 - LOT 1243 DP1179564

DP1194143 Lot(s): 1

NSW GAZ. 15-08-2014 Folio: 2892

**CLOSED ROAD** LOT 1 DP1194143

DP1244165 Lot(s): 1, 2

DP752117 **HISTORICAL COMPILATION** CROWN ADMIN NO.

DP1244882 Lot(s): 2

PLAN OF MINERALS ONLY

DP1244882 REGISTERED **COMPILATION DEPARTMENTAL** 

**Caution:** 

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



#### Cadastral Records Enquiry Report: Lot 1 DP 630504

Ref: NOUSER

Locality : TRUNDLEParish : TRUNDLELGA : PARKESCounty : CUNNINGHAM

Plan	Surv/Comp	Purpose
DP5943	SURVEY	UNRESEARCHED
DP124573	COMPILATION	DEPARTMENTAL
DP505235	SURVEY	SUBDIVISION
DP509420	COMPILATION	DEPARTMENTAL
DP514454	SURVEY	RESUMPTION OR ACQUISITION
DP610057	SURVEY	SUBDIVISION
DP630504	COMPILATION	SUBDIVISION
DP653100	COMPILATION	DEPARTMENTAL
DP667633	COMPILATION	DEPARTMENTAL
DP721713	COMPILATION	DEPARTMENTAL
DP734361	COMPILATION	SUBDIVISION
DP752089	COMPILATION	CROWN ADMIN NO.
DP752116	COMPILATION	CROWN ADMIN NO.
DP752117	COMPILATION	CROWN ADMIN NO.
DP752121	COMPILATION	CROWN ADMIN NO.
DP867279	SURVEY	RESUMPTION OR ACQUISITION
DP947520	COMPILATION	UNRESEARCHED
DP1021161	COMPILATION	DEPARTMENTAL
DP1023351	COMPILATION	DEPARTMENTAL
DP1023352	COMPILATION	DEPARTMENTAL
DP1074944	COMPILATION	DEPARTMENTAL
DP1145759	COMPILATION	CROWN LAND CONVERSION
DP1179558	COMPILATION	LIMITED FOLIO CREATION
DP1179559	COMPILATION	LIMITED FOLIO CREATION
DP1179564	COMPILATION	LIMITED FOLIO CREATION
DP1194143	COMPILATION	CROWN ROAD ENCLOSURE
DP1244165	COMPILATION	SUBDIVISION

NEW SOUTH WALES

Prior Title (Crown Grant)

Vol. 8047 Fol. 20



AL PROPERTY ACT, 1900

FICATE OF TITLE

**EDITION ISSUED** 

16 3 1979

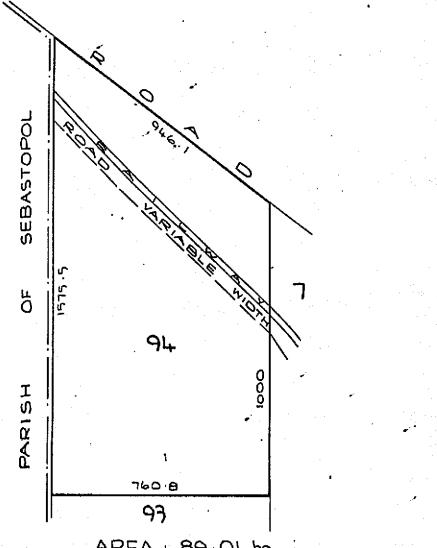
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Registrar General.



#### PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



AREA: 89 OI ha

DOES NOT INCLUDE AREA OF THE RAILWAY AND

ROAD 1: 12.500 REDUCTION RATIO

R13468

#### ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Portion 94 in the Shire of Goobang Parish of Trundle and County of Cunningham. EXCEPTING THEREOUT the railway and the road shown in the plan hereon and the minerals reserved by the Crown Grant.

#### FIRST SCHEDULE

TERRENCE JOHN GREEN of Parkes, Fermer

#### SECOND SCHEDULE

- Reservations and conditions, if any, contained in the Crown Grant above referred to.
- R13468 Mortgage to The Commercial Banking Company of Sydney Limited. 2.

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

:R342457 /Doc:CT 13814-212 CT /Rev:10-Jan-2011 /NSW LRS /Pgs:ALL /Prt:12-Feb-2021 18:03 /Seq:2 of 2 ffice of the Registrar-General /Src:GLOBALX /Ref:advlegs

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	FIRST SCHEDULE (continued)													-
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SECOND SCHEDULE (continued)	PARTICULARS	Gural Bund of the South Water Desistered 15-10-1981	T397128 Wortgage to Rural Assistance Board. Registered 15-2-1983.		This deed is cancelled as to halfolo.	New Certificates of little have Issued on 3.4.1.03	for loss in the post toch. Plan No. 630004 as follows:-	Lot 1-3 Vol. 1509H Folati-algrespectively			REGISTRAR GENERAL			
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-	INSTRUMENT NATURE	5681466 Lave	T397128 Worts			·		•		, i de la companione de				

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

(Page 2 of 2 pages)

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

(Page 1) Vol.

NEW SOUTH WALES

Prior Titles:

First Titles: Vol. 1373 Fol.15დ

Vol. 1380 Fol. 28 Vol. 8047 Fol. 20

Vol. 2525 Fol. 48

Vol.13814 Fol.212



L PROPERTY ACT, 1900

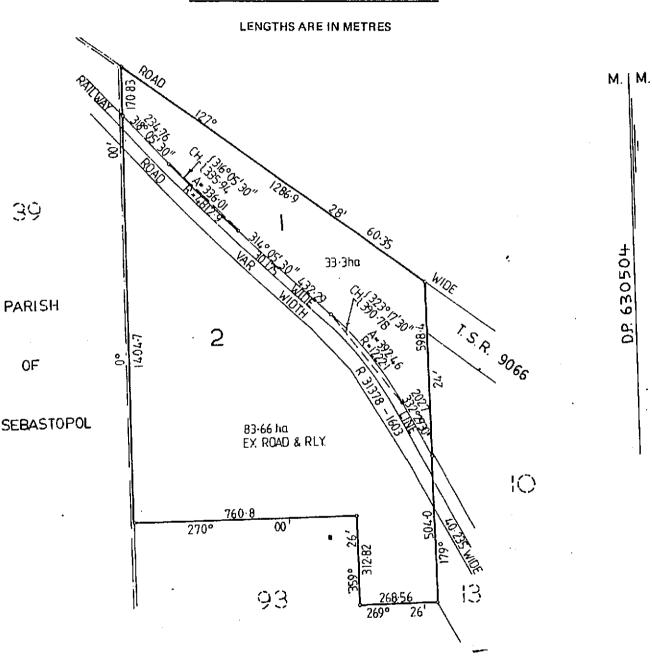
 $15024_{\text{Fol}}$  217

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and SEE MITTE FALLO to the provisions of the Real Property Act, 1900.

FICATE OF TITLE

Registrar General.

#### PLAN SHOWING LOCATION OF LAND



#### LAND REFERRED TO

Lot 1 in Deposited Plan 630504 at Trundle in the Shire of Parkes Parish of Trundle and County of Cunningham.

#### FIRST SCHEDULE

S

#### SECOND SCHEDULE

- GRM 1. Land excludes minerals and is subject to reservations and conditions in favour of the Crown -See Crown Grant.
  - -Mortgage to The National Commercial Banking Corporation of Australia Limited T560905 Caveat by State Bank of New South Wales, Withdrawn T560904 Mortgage to Ruyal Assistance Board, T560906 2. R13468
  - 3<del>: \$681466</del> <del>4:- T397128-</del>

vol	15	$024_{\text{Fol}}$ $21$	7
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FIRST SCHEDULE (continued)			·
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William Edward Ford by Transfer T560907. Registered 6-6-1983.		•	مسار عدد المسارط التي التي التي التي التي التي التي التي التي
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SECOND SCHEDULE (continued) PARTICULARS		Registrar General	CANCELL
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© Office of the Registrar-General /Src:GLOBALX /Ref:advlegs

Form: 01T Release: 3.1 www.lands.nsw.gov.au

**New South Wales** Real Property Act 1900

TRANSFER



AD400060Y

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises tl by this form for the establishment and maintenance of the Real Propert

	~	ade available to any person for search upon payment of a fee, if any.		
	STAMP DUTY	Office of State Revenue use only		
			SECTION 18(2)	0004530413-001
(A)	TORRENS TITLE	1/630504		***************************************
(D)	LODGED BY			
(B)	LODGED BY	Document Collection Box UNIVERSAL TITLE SEARCHERS  UNIVERSAL TITLE SEARCHERS  UNIVERSAL TITLE SEARCHERS  Reference: 2434433		TW (Shariff)
(C)	TRANSFEROR	Graeme Anders Stephensen		(Sheriff)
(D)	CONSIDERATION	The transferor acknowledges receipt of the consideration of \$ 60,000.	00	and as regards
(E)	ESTATE	the land specified above transfers to the transferee an estate in	fee simple	
(F)	SHARE TRANSFERRED			
(G)		Encumbrances (if applicable):		
(H) (I)	TRANSFEREE	Colin Rupert Grinter and Valda Ruth Grinter  TENANCY: Joint Tenants		
(-)	DATE 2	18.8.2007		
(J)	I am personally ac	erson(s) signing opposite, with whom quainted or as to whose identity I am Property Act 1900 I, signed this instrument in my presence.	the purposes of the Rea by the transferor.	al

Signature of witness:

Name of witness: Address of witness: Susan Mary Stephensen
19 Borton St.
Forles NSW

Signature of transferor:

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

Signature:

Signatory's name: Signatory's capacity: Philip # Gilderdale

transferees' solicitor

#### **System Document Identification**

Form Number:01T-e
Template Number: T\_nsw16
ELN Document ID:8295538
ELN NOS ID: 8295540

#### **TRANSFER**

New South Wales Real Property Act 1900 **Land Registry Document Identification** 

AN832489

**Stamp Duty:** 9475350-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

#### LODGED BY:

Responsible Subscriber: MCCULLOUGH ROBERTSON LAWYERS ABN 42721345951

Address: L11, 66 Eagle ST

Brisbane 4000

Telephone:

PEXA Subscriber Number: 6159
Customer Account Number: 501092W
Document Collection Box: 1W
Client Reference: 165250-18

#### LAND TITLE REFERENCE

1/630504

#### **TRANSFEROR**

COLIN RUPERT GRINTER VALDA RUTH GRINTER

#### TRANSFEREE

CLEAN TEQ SUNRISE PTY LTD ACN 008755155 Registered company

Tenancy: Sole Proprietor

#### **CONSIDERATION**

The transferor acknowledges receipt of the consideration of \$450,000.00

#### **ESTATE TRANSFERRED**

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

#### SIGNING FOR TRANSFEROR

I certify that:

- 1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- 3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferor.

#### Party Represented by Subscriber:

COLIN RUPERT GRINTER VALDA RUTH GRINTER

Signed By: Dennis McGroder Signer Capacity: Practitioner Certifier

PEXA Signer Number: 62395 Digital Signing Certificate Number: 35505

Signed for Subscriber: HUGHES & CO. LAWYERS & CONVEYANCING PTY LTD ABN 95169302710

HUGHES & CO. LAWYERS & CONVEYANCING

Subscriber Capacity: Representative Subscriber

PEXA Subscriber Number:2144 **Customer Account Number:**500456

Date: 02/11/2018

#### SIGNING FOR TRANSFEREE

I certify that:

- 1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- 3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferee.

#### Party Represented by Subscriber:

CLEAN TEQ SUNRISE PTY LTD

Signed By: Eva Vicic Signer Capacity: Practitioner Certifier PEXA Signer Number:41169 **Digital Signing Certificate Number: 22558** 

Signed for PARTNERS OF MCCULLOUGH ROBERTSON ABN 42721345951 Subscriber:

MCCULLOUGH ROBERTSON LAWYERS

Subscriber Capacity: Representative Subscriber

PEXA Subscriber Number:6159 **Customer Account Number:**501092

Date: 02/11/2018

	STAMP DUTY			FFICE USE ONLY	
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		TRANSFER REAL PROPERTY ACT, 1900	, T	3 2°12 \$ 44	$R^2/2$
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DESCRIPTION OF LAND Note (a)	Identifier 1/630504	WHOL	.E	Parish of Trund County of Cunni	
		a section of the section			
TRANSFEROR Note (b)	WILLIAM EDWARD FORD				
			<del></del>		
ESTATE STATE Note (c)	(the abovenamed TRANSFEROR) hereby ackn and transfers an estate in fee simple in the land above described to the TRANSFER		n of \$21,500.00		
TRANSFERÉE Note (d) &	LESLIE BEAUMONT MIELL of 'and ELIZABETH ADRIANA MIEL			Notor Mechanic	OFFICE USE ONLY
TENANOV É			•	1	JTo
TENANCY &: Note (e) 6:	as joint tenants/ <del>iहnants in common</del>				a.
PRIOR S ENCUMBRANCES Note (f)	subject to the following PRIOR ENCUMBRANC	DES 1			
	DATE				***************************************
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	We hereby certify this dealing to be correct for t	the purposes of the Real Property Ac	t, 1900.		
	We hereby certify this dealing to be correct for the Signed in my presence by the mansferor who is		t, 1900.		
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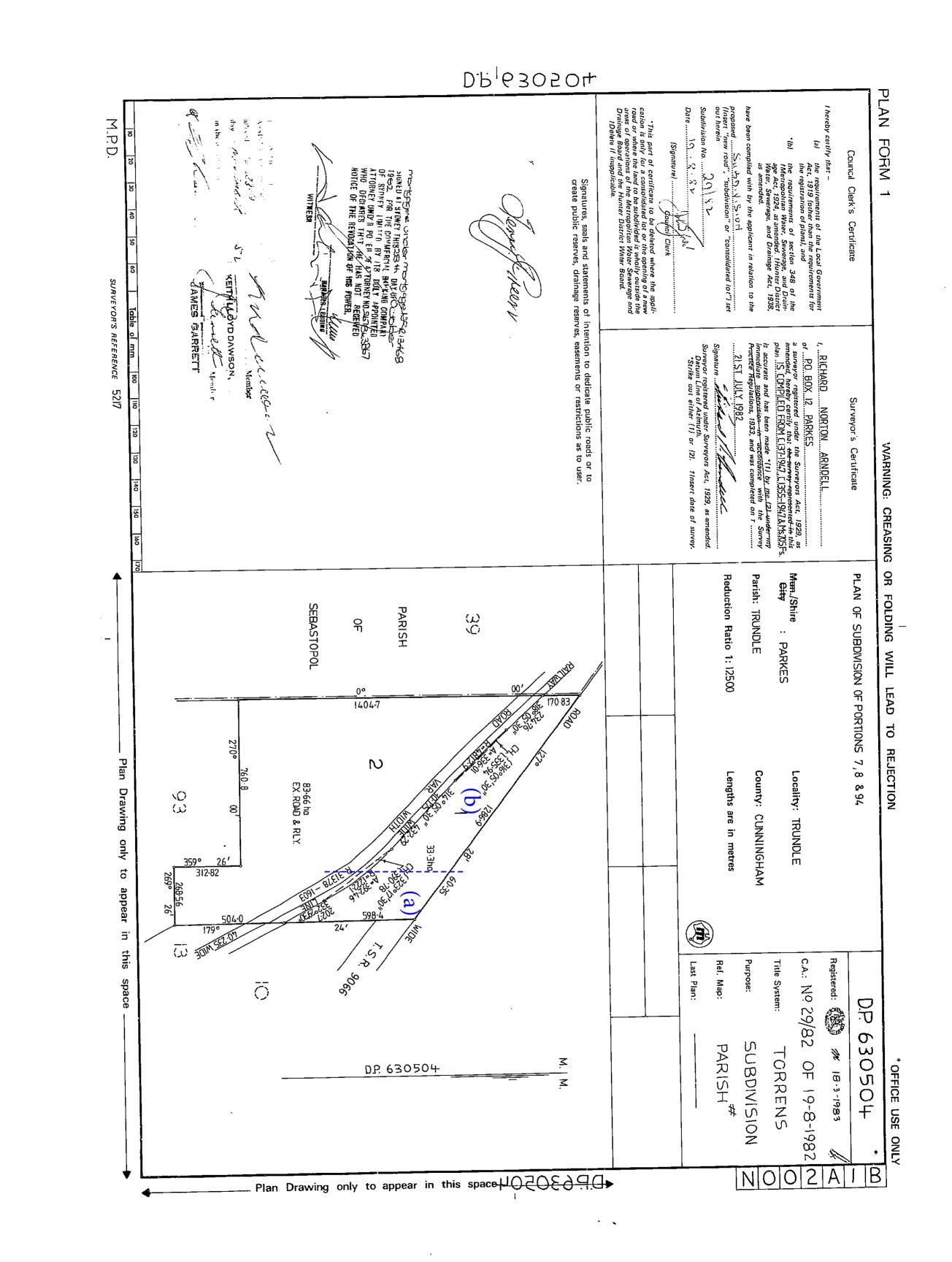
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I, Bruce Ri Registrar G negative is document in

lichard Davies, Under Secretary for Lands and General for New South Wales, certify that this s a photograph made as a permanent record of a n my custody this day.

23rd March,

1983







#### NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

#### 

FOLIO: 1/630504

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First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 15024 FOL 217

Recorded	Number	Type of Instrument	C.T. Issue
28/3/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
21/9/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
12/2/1990 12/2/1990	Y839339 Y839340	DISCHARGE OF MORTGAGE TRANSFER	EDITION 1
12/2/1990	1033340	IIIIIIIIIIII	EDITION I
8/3/1996	2002216	TRANSFER	EDITION 2
6/9/2007 6/9/2007	AD400060 AD400061	TRANSFER MORTGAGE	EDITION 3
28/6/2011 28/6/2011	AG330155 AG330308	TRANSMISSION APPLICATION DISCHARGE OF MORTGAGE	EDITION 4
2/11/2018	AN832489	TRANSFER	EDITION 5

\*\*\* END OF SEARCH \*\*\*

advlegs

PRINTED ON 12/2/2021





#### NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/630504

\_\_\_\_\_

 SEARCH DATE
 TIME
 EDITION NO
 DATE

 12/2/2021
 5:56 PM
 5
 2/11/2018

LAND

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LOT 1 IN DEPOSITED PLAN 630504
AT TRUNDLE
LOCAL GOVERNMENT AREA PARKES
PARISH OF TRUNDLE COUNTY OF CUNNINGHAM

TITLE DIAGRAM DP630504

FIRST SCHEDULE

CLEAN TEQ SUNRISE PTY LTD

(T AN832489)

SECOND SCHEDULE (1 NOTIFICATION)

\_\_\_\_\_

1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)

NOTATIONS

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UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

advlegs

PRINTED ON 12/2/2021

Obtained from NSW LRS on 12 February 2021 04:56 PM AEST

© Office of the Registrar-General 2021

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

### Annexure **D**

NSW SafeWork Dangerous Goods Search Results



Our Ref: D21/026055

22 February 2021

Mr James Morrow
Ground Doctor Pty Ltd
James.morrow@grounddoc.com.au

Dear Mr Morrow

#### RE SITE: Lot 1 DP 630504 The Bogan Way Trundle NSW 2875

I refer to your site search request received by SafeWork NSW on 12 February 2021 requesting information on Storage of Hazardous Chemicals for the above site.

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

For further information or if you have any questions, please call us on 13 10 50 or email <a href="mailto:licensing@safework.nsw.gov.au">licensing@safework.nsw.gov.au</a>

Yours sincerely

Gabriela Draper

Licensing Representative
Licensing and Funds, Better Regulation
SafeWork NSW

### Annexure E

**Study Area Inspection Photographs** 



Oblique aerial view looking south east across the Study Area.



Oblique aerial view looking north east across the Study Area.



Oblique aerial view looking north west across the Study Area.



Oblique aerial view looking west across the Study Area.

### Annexure F

**Section 10.7 Planning Certificates** 



#### PLANNING CERTIFICATE UNDER SECTION 10.7 **ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979**

Information provided pursuant to Section 10.7(2) of the Act

**Applicant Details:** Ground Doctor Pty Ltd

PO Box 6278

DUBBO NSW 2830

Your Reference: Trundle Siding **Certificate No:** PC2021/0134 11 March 2021 Date:

704700 **Property Number:** 

Subject Land: Lot 1 DP 630504

**Property Address:** 'Moomalong' 193 Scotson Lane, Trundle

Clean Teq Sunrise Pty Ltd **Owners:** 

**Location Map:** As shown on the map below and edged in red



This drawing is provided by Parkes Shire Council to its clients and correspondents for their information on an as Note is basis. It represents a depiction of the land details as currently held and should not be relied upon as a definitive or complete statement of the title details.





# Names of relevant planning instruments and DCPs

(1) The name of each environmental planning instrument that applies to the carrying out of development on the land.

Parkes Local Environmental Plan 2012

State Environmental Planning Policies:

- State Environmental Planning Policy (Activation Precincts) 2020.
- State Environmental Planning Policy (Affordable Rental Housing) 2009.
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
- State Environmental Planning Policy (Concurrences and Consents) 2018.
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017.
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.
- State Environmental Planning Policy (Infrastructure) 2007.
- State Environmental Planning Policy (Koala Habitat Protection) 2019.
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.
- State Environmental Planning Policy 21 Caravan Parks.
- State Environmental Planning Policy 33 Hazardous and Offensive Development.
- State Environmental Planning Policy 36 Manufactured Home Estates.
- State Environmental Planning Policy 50 Canal Estate Development.
- State Environmental Planning Policy 55 Remediation of Land.
- State Environmental Planning Policy 64 –Advertising and Signage.
- State Environmental Planning Policy 65 Design Quality of Residential Flat Development.
- State Environmental Planning Policy 70 Affordable Housing (Revised Schemes).
- State Environmental Planning Policy (Primary Production and Rural Developments) 2019.
- State Environmental Planning Policy (State and Regional Development) 2011.
- State Environmental Planning Policy (State Significant Precincts) 2005.
- State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
- State Environmental Planning Policy (State and Regional Development) 2011.

(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Planning Secretary has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

Nil.



			1 ago   o
	(3)	The name of each development control plan that applies to the carrying out of development on the land	Parkes Shire Development Control Plan 2013.
	(4)	In this clause, proposed environmental planning instrument includes a planning proposal for a LEP or a draft environmental planning instrument	Not Applicable.
2.	Zon	ing and land use under relevant LEPs	RU1 Primary Production
	prop than	each environmental planning instrument or osed instrument referred to in clause 1 (other a SEPP or proposed SEPP) that includes the in any zone (however described):	
	(a)	the identity of the zone, whether by reference to a name (such as "Residential Zone" or "Heritage Area") or by reference to a number (such as "Zone No 2(a)")	
	(b)	the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,	Refer to Schedule A
	(c)	the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,	Refer to Schedule A
	(d)	the purposes for which the instrument provides that development is prohibited within the zone,	Refer to Schedule A
	(e)	whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling house on the land and, if so, the minimum land dimensions so fixed,	There are minimum development standards applying to the land that fix the minimum land dimensions for the erection of a dwelling house on the land. The minimum land dimension is 400 hectares.
	(f)	whether the land includes or comprises critical habitat,	Not to Council's knowledge, however, persons with an interest in the land may examine the 'Register of Critical Habitat' which is kept by the Director-General of National Parks and Wildlife Service.
	(g)	whether the land is in a conservation area (however described),	No.
	(h)	whether an item of environmental heritage (however described) is situated on the land.	No.
2A.		ing and land use under <u>State Environmental</u> uning Policy (Sydney Region Growth Centres)	Not Applicable.
		the extent that the land is within any zone vever described) under:  Part 3 of the <u>State Environmental Planning Policy (Sydney Region Growth Centres) 2006</u> (the 2006 SEPP), or	



- (b) a Precinct Plan (within the meaning of the 2006 SEPP), or
- (c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

## 3. Complying Development

- (1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
- (2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.
- (3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

### **Housing Code**

Complying Development under the Housing Code may not be carried out on the land.

#### **Rural Housing Code**

Complying Development under the Rural Housing Code may be carried out on the land.

### **Low Rise Medium Density Housing Code**

Complying Development under the Low Rise Medium Density Housing Code may not be carried out on the land.

### **Greenfield Housing Code**

Complying Development under the Greenfield Housing Code may not be carried out on the land.

#### **Inland Code**

Complying Development under the Inland Code may be carried out on the land.

### **Housing Alterations Code**

Complying Development under the Housing Alterations Code may be carried out on the land.

#### **General Development Code**

Complying Development under the General Development Code may be carried out on the land.

## **Commercial and Industrial Alterations Code**

Complying Development under the Commercial and Industrial Alterations Code may be carried out on the land.

# Commercial and Industrial (New Buildings and Additions) Code

Complying Development under the Commercial and Industrial Code (New Buildings and Additions) may not be carried out on the land.

## **Container Recycling Facilities Code**

Complying Development under the Container Recycling Facilities Code may not be carried out on the land.

#### **Subdivisions Code**

Complying Development under the Subdivision Code may be carried out on the land.

#### **Demolition Code**

Complying Development under the Demolition Housing Code may be carried out on the land.



		rage   5
		Fire Safety Code Complying Development under the Fire Safety Code may be carried out on the land.
4B.	Annual charges under <u>Local Government Act</u> <u>1993</u> for coastal protection services that relate to existing coastal protection works	Not Applicable.
	In relation to a coastal council—whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the <u>Local Government Act 1993</u> for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).	
	<b>Note.</b> Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the <u>Local Government Act 1993</u> .	
5.	Mine subsidence  Whether or not the land is proclaimed to be a mine subsidence district within the meaning of the Coal Mine Subsidence Compensation Act 2017.	The land is not proclaimed to be a mine subsidence district within the meaning of the <u>Coal Mine Subsidence</u> <u>Compensation Act 2017.</u>
6.	Road widening and road realignment	No.
	Whether or not the land is affected by any road widening or road realignment under:  (a) Division 2 of Part 3 of the Roads Act 1993, or	
	<ul><li>(b) any environmental planning instrument, or</li><li>(c) any resolution of the council.</li></ul>	
7.	Council and other public authority policies on hazard risk restrictions	Part of the subject land is identified on the Parkes Local Environmental Plan 2012 Terrestrial Biodiversity Maps
	Whether or not the land is affected by a policy:  (a) adopted by the council, or  (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).	and therefore Clause 6.2 Terrestrial Biodiversity of the Parkes Local Environmental Plan 2012 must be considered before determining a development application for development on the land.
7A.	Flood related development controls information	No.
	(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.	

	(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.	
	(3)	Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the <i>Instrument</i> .	
8.	Land	d reserved for acquisition	No.
	instru instru in re	ther or not any environmental planning ument or proposed environmental planning ument, referred to in clause 1 makes provision lation to the acquisition of the land by a public ority, as referred to in section 3.15 of the Act.	
9.	Con	tributions Plan	Parkes Shire Section 94 Contributions Plan 2016.
	The land.	name of each contributions plan applying to the	Parkes Shire Section 94A Contributions Plan 2016.
9A.	Biod	liversity certified land	No.
	of t	e land is biodiversity certified land (under Part 8 he Biodiversity Conservation Act 2016), a ment to that effect.	
	Note	: Biodiversity certified land includes land certified under Part 7AA of the Threatened Species Conservation Act 1995 that is taken to be certified under Part 8 of the Biodiversity Conservation Act 2016.	
10.	Biod	liversity stewardship sites	No.
	biodi the E to the of the Exec	e land is a biodiversity stewardship site under a versity stewardship agreement under Part 5 of Biodiversity Conservation Act 2016, a statement at effect (but only if the council has been notified ne existence of the agreement by the Chief cutive of the Office of Environment and rage).	
	Note	Biodiversity stewardship agreements include biobanking agreements under Part 7A of the Threatened Species Conservation Act 1995 that are taken to be biodiversity stewardship agreements under Part 5 of the Biodiversity Conservation Act 2016.	
10A.	If the 60Z0 state been by L	ve vegetation clearing set asides e land contains a set aside area under section C of the Local Land Services Act 2013, a ement to that effect (but only if the council has a notified of the existence of the set aside area cocal Land Services or it is registered in the c register under that section).	Council is not aware of any native vegetation clearing set asides in respect of the subject land.



11.	Bush fire prone land	No.
	If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.	
	If none of the land is bush fire prone land, a statement to that effect.	
12.	Property vegetation plans	No.
	If the land is land to which a property vegetation plan approved under Part 4 of the Native Vegetation Act 2003 (and that continues in force) applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).	
13.	Orders under Trees (Disputes Between Neighbours) Act 2006	No.
	Whether an order has been made under the <u>Trees</u> ( <u>Disputes Between Neighbours</u> ) Act 2006 to carry out work in relation to a tree on the land (but only if the council has been notified of the order).	
14.	Directions under Part 3A	No.
	If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.	
15.	Site compatibility certificates and conditions for seniors housing	Council is not aware of a current site compatibility certificate (seniors housing) in respect of the subject
	If the land is land to which <u>State Environmental</u> <u>Planning Policy (Housing for Seniors or People with a Disability) 2004</u> applies:	land.
	<ul> <li>(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include: <ul> <li>(i) the period for which the certificate is current, and</li> <li>(ii) that a copy may be obtained from the</li> </ul> </li> </ul>	
	head office of the Department, and	
	(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.	



### 16. Site compatibility certificates for infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), or site compatibility certificate (schools or TAFE establishments), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:

Council is not aware of any valid site compatibility certificate (infrastructure) in respect of the subject land.

- (a) the period for which the certificate is valid, and
- (b) that a copy may be obtained from the head office of the Department.

# 17. Site compatibility certificates and conditions for affordable rental housing

- (1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
- (a) the period for which the certificate is current, and
- (b) that a copy may be obtained from the head office of the Department.
- (2) A statement setting out any terms of a kind referred to in clause 17 (1) or 37 (1) of <u>State Environmental Planning Policy (Affordable Rental Housing) 2009</u> that have been imposed as a condition of consent to a development application in respect of the land.

Council is not aware of any valid site compatibility

certificate (affordable rental housing) in respect of the

### 18. Paper Subdivision Information

- (1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.
- (2) The date of any subdivision order that applies to the land.
- (3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

## Not Applicable

subject land.

### 19. Site Verification Certificates

A statement of whether there is a current site verification certificate, of which the council is aware, in respect of the land and, if there is a certificate, the statement is to include:

(a) the matter certified by the certificate, and Note. A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of <u>State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries)</u> 2007. Council is not aware of any current site verification certificates in respect of the land.



				Page   9	
	(b) the date on which the	certificate ceases to			
	be current (if any), and	k			
	(c) that a copy may be ob office of the Department				
	Infrastructure.	int of Planning and			
20.	Loose-fill asbestos insulation		No.		
	If the land includes any resident the meaning of Division 1A				
	Building Act 1989) that are lis				
	is required to be maintained				
	statement to that effect.				
21.	Affected building notices a	and building product	No.		
	rectification orders				
	(1) A statement of whether				
	building notice of which that is in force in respec				
	(2) A statement of:	t of the land.			
		ny building product			
	rectification order of wh that is in force in respe				
	not been fully complied				
	(b) whether any notice of				
	building product rectification council is aware has be				
	the land is outstanding.	son given in respect of			
	(3) In this clause:				
	affected building no meaning as in Part 4 o				
	(Safety) Act 2017.	Time <u>Building 1 roducts</u>			
	building product rect				
	same meaning as in (Safety) Act 2017.	the <u>Building Products</u>			
	(Galety) Act 2011.				
22.	State Environmental Plann	ing Policy (Western	No.		
	Sydney Aerotropolis) 2020 For land to which <u>State Enviro</u>	enmontal Planning			
	Policy (Western Sydney Aeros				
	whether the land is:				
	(a) in an ANEF or ANEC greater as referred to				
	Policy, or	in clause 19 of that			
	(b) shown on the Lighting				
	Shear Map under that (c) shown on the Obstacl				
	(c) shown on the Obstacl  Map under that Policy				
	(d) in the "public safety a	ea" on the <i>Public</i>			
	Safety Area Map unde	er that Policy, or dlife buffer zone" or the			
	(e) in the "3 kilometre wild "13 kilometre wildlife b				
	Wildlife Buffer Zone N				
	Note. The following matters a	re nrescribed by	Nil.		
	section 59 (2) of the <u>Co</u>		TVII.		
	Management Act 1997	as additional matters to			
	be specified in a plannir	ng certificate:			
	(a) that the land to which the				
	significantly contaminat meaning of that Act—if				
	land) is significantly cor				
	date when the certificate				
			•		



- (b) that the land to which the certificate relates is subject to a management order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,
- (c) that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act—if it is the subject of such an approved proposal at the date when the certificate is issued,
- (d) that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act—if it is subject to such an order at the date when the certificate is issued,
- (e) that the land to which the certificate relates is the subject of a site audit statement within the meaning of that Act—if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

#### Disclaimer

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**Brent Tucker** 

**ACTING MANAGER PLANNING SERVICES** 

## **SCHEDULE A**

### **Zone RU1 Primary Production**

## 1 Objectives of Zone

The objectives of this zone are:

- To encourage sustainable primary industry production by maintaining and enhancing the natural resource base.
- To encourage diversity in primary industry enterprises and systems appropriate for the area.
- To minimise the fragmentation and alienation of resource lands.
- To minimise conflict between land uses within this zone and land uses within adjoining zones.
- To encourage eco-tourism enterprises that minimise any adverse effect on primary industry production.
- To permit non-agricultural uses that support the primary production purposes of the zone.
- To permit small scale rural tourism uses associated with primary production and environmental conservation with minimal impact on primary production and the scenic amenity of the area.
- To encourage the provision of tourist accommodation in association with agricultural activities.
- To provide opportunities for employment-generating development that adds value to local agricultural production and integrates with tourism.

#### 2 Permitted without consent

Environmental protection works; Extensive agriculture; Forestry; Home occupations; Intensive plant agriculture.

#### 3 Permitted with consent

Air transport facilities; Airstrips; Animal boarding or training establishments; Aquaculture; Bed and breakfast accommodation; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Cellar door premises; Cemeteries; Community facilities; Correctional centres; Crematoria; Depots; Dual occupancies (attached); Dwelling houses; Eco-tourist facilities; Educational establishments; Environmental facilities; Extractive industries; Farm buildings; Farm stay accommodation; Flood mitigation works; Freight transport facilities; Helipads; Highway service centres; Home industries; Home occupations (sex services); Industrial training facilities; Information and education facilities; Intensive livestock agriculture; Jetties; Landscaping material supplies; Open cut mining; Plant nurseries; Recreation areas; Recreation facilities (major); Recreation facilities (outdoor); Roads; Roadside stalls; Rural industries; Rural supplies; Rural workers' dwellings; Secondary dwellings; Timber yards; Veterinary hospitals; Water recreation structures.

## 4 Prohibited

Any development not specified in item 2 or 3.





# PLANNING CERTIFICATE UNDER SECTION 14 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

Information provided pursuant to Section 10.7(5) of the Act

Applicant Details: Ground Doctor Pty Ltd

PO Box 6278

DUBBO NSW 2830

Your Reference: Trundle Siding
Certificate No: PC2021/0134

Date: 11 March 2021

Property Number: 704700

Subject Land: Lot 1 DP 630504

Property Address: 'Moomalong' 193 Scotson Lane, Trundle

Owners: Clean Teq Sunrise Pty Ltd

**Location Map:**As shown on the map below and edged in red



**Note** This drawing is provided by Parkes Shire Council to its clients and correspondents for their information on an as is basis. It represents a depiction of the land details as currently held and should not be relied upon as a definitive or complete statement of the title details.





1. Development Consent	
Whether any development consent (including complying development certificate) with respect to the land has been granted within the previous two years.	No
2. Resolution to prepare Draft Local Environmental Plan  Whether the land is affected by any resolution of the Council to seek amendment to any environmental planning instrument or draft environmental planning instrument applying to the land.	No
<ol> <li>Tree Preservation Order</li> <li>Whether the land is affected by a Tree Preservation Order.</li> </ol>	No
4. Residential District Proclamation  Whether the land is affected by a Residential District Proclamation.	No
5. Contaminated Site Register  Whether the land is listed in Council's Contaminated Sites Register.	No
6. Dwelling Potential on Land Zoned RU1 Primary Production  Whether Development Consent can be granted for the erection of a dwelling on the land.	<ul> <li>The land is zoned RU1 Primary Production under Parkes Local Environmental Plan 2012 ("PLEP 2012").</li> <li>Pursuant to clause 4.2A(1) of PLEP 2012, development consent for erection of a dwelling house on land zoned RU1 Primary Production can be granted in the following circumstances:</li> <li>a) The land is a lot that is at least the 400 hectare minimum lot size development standard as shown on the PLEP 2012 Lot Size Map; or</li> <li>b) The land is a lot created under an Environmental Planning Instrument (defined below) before the PLEP 2012 commenced and on which the erection of a dwelling house was permissible before that commencement; or</li> <li>c) The land is a lot resulting from a subdivision for which development consent was granted before the PLEP 2012 commenced and on which the erection of a dwelling house would have been permissible if the plan of subdivision had been registered before that commencement; or</li> <li>d) The land is an Existing Holding (defined below); or</li> <li>e) The land would have been a lot or Holding referred to in (a), (b), (c) or (d) above had it not been affected by: a minor realignment of its boundaries that did not create an additional lot, or a subdivision</li> </ul>

A dwelling house can be erected on the land under the circumstances above for the following reasons:

a) Council's records indicate that Lot 1 DP 630504 was held in the same ownership on 14 December 1990 and formed an existing holding (defined below). Clause 4.2A(2)(d) can be used to permit the erection of a dwelling house on the land. Should a dwelling be located upon Lot 1 DP 630504 the holding is exhausted.

**Environmental Planning Instrument** means an environmental planning instrument (including a SEPP or LEP but not including a DCP) made, or taken to have been made, under Part 3 and in force.

### Existing Holding means land that:

- (a) was a holding on 14 December 1990, and
- (b) is a holding at the time the application for development consent referred to in subclause (2) is lodged,

whether or not there has been a change in the ownership of the holding since 14 December 1990, and includes any other land adjoining that land acquired by the owner since 14 December 1990.

**Holding** means all adjoining land, even if separated by a road or railway, held by the same person or persons.

### 7. Building Certificate

A Building Information Certificate issued under Section 6.22-6.26 of the Environmental Planning and Assessment Act, 1979 is required should it be necessary to ascertain whether or not a development complies with Council's requirements. A separate application and fee is required.

### 8. Other Certificates

The following certificates area also available from Council:

- a) Section 603 Local Government Act 1993 –
   "Rates Certificate" which details any monies
   payable to Council (eg. outstanding rates,
   charges for works undertaken by Council). A
   separate application and fee is required.
- b) Section 735A Local Government Act 1993 "Outstanding Notices Certificate (LGA)" which details any outstanding notices issued under the Local Government Act. A separate application and fee is required.
- c) Clause 41 of Schedule 5 Environmental Planning and Assessment Act, 1979 –
   "Outstanding Notices Certificate (EP&A Act 1979)" which details any outstanding notices of proposed orders or outstanding orders issued under the Environmental Planning and Assessment Act, 1979. A separate application and fee is required.



d)	Combined Section 735A and Clause 41 of
	Schedule 5 of EP&A Act 1979. A separate
	application and fee is required.
e)	Section 6.22-6.23 – Environmental Planning
	and Assessment Act, 1979 – "Building
	Information Certificate" which details whether a

building complies with Council approvals and the Building Code of Australia. A separate

application and fee is required.

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**Brent Tucker** 

**ACTING MANAGER PLANNING SERVICES** 

# Annexure G

**Soil Analytical Results Summary Tables** 

Sample ID Date	SS01 25-Feb-21	SS02 25-Feb-21	SS03 25-Feb-21	SS04 25-Feb-21	SS05 25-Feb-21	SS06 25-Feb-21	SS07 25-Feb-21	HSL D		2013) SILs Manage Limit	HIL D
Total Recoverable Hydrocarbons - 2013 N	EPM Fraction	ıs									
Naphthalene TRH C6-C10	< 0.5 < 20	< 0.5 < 20	< 0.5 < 20	< 0.5 < 20			-	NL -	370 215	na 800	
TRH C6-C10 less BTEX (F1) TRH >C10-C16	< 20 < 50	< 20 < 50	< 20 < 50	< 20 < 50	-	-	-	260	170	1000	na
TRH >C10-C16 less Naphthalene (F2) TRH >C10-C40 (total)*	< 50 < 100	< 50 < 100	< 50 < 100	< 50 < 100	-	-	-	NL na	- na	- na	na na
TRH >C16-C34 TRH >C34-C40	< 100 < 100	< 100 < 100	< 100 < 100	< 100 < 100	-	-	-	NL NL	2500 6600	5000 10000	na na
BTEX							, ,				
Benzene Ethylbenzene	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	< 0.1 < 0.1	-	-	-	3 NL	95 185	-	•
m&p-Xylenes o-Xylene	< 0.2	< 0.2	< 0.2	< 0.2	-	-	-	-		-	•
Toluene Xylenes - Total*	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	NL 230	135 95	-	-
Polycyclic Aromatic Hydrocarbons	10.0	10.0	10.0	10.0			- 1	200	33	-	
Acenaphthene Acenaphthylene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Anthracene	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5 < 0.5	-	-	-	na	na	na	-
Benz(a)anthracene Benzo(a)pyrene	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na na	na 0.7	na na	-
Benzo(a)pyrene TEQ (lower bound) * Benzo(b&j)fluoranthene	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na na	na na	na na	40 -
Benzo(g.h.i)perylene Benzo(k)fluoranthene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Chrysene Dibenz(a.h)anthracene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Fluoranthene Fluorene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Indeno(1.2.3-cd)pyrene Naphthalene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na 370	na na	-
Phenanthrene Pyrene	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Total PAH*	< 0.5	< 0.5	< 0.5	< 0.5	-	-		na	na	na	4000
Heavy Metals Arsenic	16	21	17	25	17	18	28	na	160	na	3000
Cadmium Chromium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4 41	na na	310*	na na	900
Copper Lead	17 16	18	18	17 19	22	16 27	28	na na	85* 1800	na na	240000 1500
Mercury Nickel	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	na na	na 55*	na na	730 6000
Zinc	48	62	58	68	37	46	110	na	110*	na	400000
Organochlorine Pesticides	< 0.05		< 0.05		< 0.05		< 0.05				-
4.4'-DDD 4.4'-DDE	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05	< 0.05	< 0.05 < 0.05	< 0.05	na na	na na	na na	•
4.4'-DDT a-BHC	< 0.05 < 0.05	na na	640 na	na na	-						
Aldrin Aldrin and Dieldrin (Total)*	< 0.05 < 0.05	na na	na na	na na	- 45						
b-BHC Chlordanes - Total	< 0.05 < 0.1	na na	na na	na na	530						
d-BHC DDT + DDE + DDD (Total)*	< 0.05 < 0.05	na na	na na	na na	3600						
Dieldrin Endosulfan I	< 0.05 < 0.05	na na	na na	na na	2000						
Endosulfan II Endosulfan sulphate	< 0.05 < 0.05	na na	na na	na na	2000						
Endrin Endrin aldehyde	< 0.05 < 0.05	< 0.1 < 0.05	< 0.1 < 0.05	< 0.1 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05	na na	na na	na na	100
Endrin ketone g-BHC (Lindane)	< 0.05 < 0.05	na na	na na	na na	•						
Heptachlor Heptachlor epoxide	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na na	na na	na na	50
Hexachlorobenzene Methoxychlor	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 < 0.2	na na	na na	na	80 2500
Toxaphene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	na	na	na na	160
Organophosphorus Pesticides											
Azinphos-methyl Bolstar	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na na	na na	na na	-
Chlorfenvinphos Chlorpyrifos	< 0.2 < 0.2	na na	na na	na na	2000						
Chlorpyrifos-methyl Coumaphos	< 0.2 < 2	na na	na na	na na	-						
Demeton-O Demeton-S	< 0.2 < 0.2	na na	na na	na na	-						
Diazinon Dichlorvos	< 0.2 < 0.2	na na	na na	na na	-						
Dimethoate Disulfoton	< 0.2 < 0.2	na na	na na	na na	•						
EPN Ethion	< 0.2 < 0.2	na na	na na	na na	•						
Ethoprop Ethyl parathion	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na na	na na	na na	-
Fenitrothion Fensulfothion	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na na	na na	na na	
Fenthion	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na	na	na	-
Malathion Merphos	< 0.2 < 0.2	na na	na na	na na	-						
Methyl parathion Mevinphos	< 0.2 < 0.2	na na	na na	na na	-						
Monocrotophos Naled	< 2	< 2 < 0.5	< 2 < 0.5	< 2 < 0.5	< 2 < 0.2	< 2 < 0.2	< 2 < 0.2	na na	na na	na na	-
Omethoate Phorate	< 2 < 0.2	na na	na na	na na	•						
Pirimiphos-methyl Pyrazophos	< 0.2 < 0.2	na na	na na	na na	-						
Ronnel Terbufos	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na na	na na	na na	-
Tetrachlorvinphos Tokuthion	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na na	na na	na na	
Trichloronate	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	na	na	na	
Acid Herbicides	< 0.5	< 0.5	< n =	< 0.5	-	-	- 1	no	no	na	5000
2.4.5-TP	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na na	na na	na na	5000
2.4-D 2.4-DB	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	9000
Actril (loxynil) Dicamba	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Dichlorprop Dinitro-o-cresol	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	-	-	-	na na	na na	na na	-
Dinoseb MCPA	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na na	na na	na na	5000
MCPB	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na	na	na	5000
Mecoprop	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	na	na	na	5000

Table G2
Relative Percentage Difference For Duplicate and Primary Soil Samples

Sample ID	SS01	DUPA	RPD
Date	25-Feb-21	25-Feb-21	%
Heavy Metals			
Arsenic	16	17	6
Cadmium	< 0.4	< 0.4	
Chromium	39	41	5
Copper	17	18	6
Lead	16	18	12
Mercury	< 0.1	< 0.1	•
Nickel	18	18	0
Zinc	48	48	0

# Annexure H

**Laboratory Certificate of Analysis** 



ABN: 50 005 085 521

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

Christchurch **Auckland** 35 O'Rorke Road 43 Detroit Drive Penrose, Auckland 1061 Phone: +64 9 526 45 51 Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1327 IANZ # 1290

## Sample Receipt Advice

Company name:

Clean TeQ Sunrise Pty Ltd

Contact name:

James Morrow

Project name:

TRUNDLE RAIL SLIDING

Project ID: Turnaround time:

2021-GD006 5 Day

Date/Time received

Feb 26, 2021 8:40 AM

**Eurofins reference** 

776840

## Sample Information

A detailed list of analytes logged into our LIMS, is included in the attached summary table.

All samples have been received as described on the above COC.

COC has been completed correctly.

Attempt to chill was evident.

Appropriately preserved sample containers have been used.

Appropriate sample containers have been used.

All samples were received in good condition.

Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

Sample containers for volatile analysis received with zero headspace.

Split sample sent to requested external lab.

Some samples have been subcontracted.

N/A Custody Seals intact (if used).

## **Notes**

#### Contact

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

Michael Morrison on phone: 03 8564 5933 or by email: MichaelMorrison@eurofins.com

Results will be delivered electronically via email to James Morrow - james.morrow@grounddoc.com.au.

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





Clean TeQ Sunrise Pty Ltd Level 6, 350 Collins Street Melbourne VIC 3000





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: James Morrow

Report 776840-S

Project name TRUNDLE RAIL SLIDING

Project ID 2021-GD006
Received Date Feb 26, 2021

Client Sample ID			SS01	SS02	SS03	SS04	
Sample Matrix			Soil	Soil	Soil	Soil	
Eurofins Sample No.			S21-Fe53787	S21-Fe53788	S21-Fe53789	S21-Fe53790	
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	
Test/Reference	LOR	Unit					
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20	
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20	
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50	
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50	
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50	
втех	•						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	
4-Bromofluorobenzene (surr.)	1	%	82	84	82	81	
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions	•					
Naphthalene <sup>N02</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20	
TRH C6-C10 less BTEX (F1)N04	20	mg/kg	< 20	< 20	< 20	< 20	
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50	
TRH >C10-C16 less Naphthalene (F2)N01	50	mg/kg	< 50	< 50	< 50	< 50	
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100	
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100	
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100	
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6	
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2	
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	



Client Sample ID			SS01	SS02	SS03	SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Fe53787	S21-Fe53788	S21-Fe53789	S21-Fe53790
Date Sampled						
•	1.00		Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene Tatal PALIX	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106 118	109	110	107
p-Terphenyl-d14 (surr.)  Organochlorine Pesticides	l I	70	110	INT	131	101
	0.4		0.4	0.4	0.4	0.4
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC Aldrin	0.05	mg/kg	< 0.05 < 0.05	< 0.05	< 0.05	< 0.05
	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05 < 0.05
b-BHC d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	
Dieldrin	0.05 0.05	mg/kg	< 0.05	< 0.05 < 0.05	< 0.05 < 0.05	< 0.05 < 0.05
Endosulfan I	0.05	mg/kg mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.1	< 0.1	< 0.1
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	114	140	110	144
Tetrachloro-m-xylene (surr.)	1	%	94	131	99	95
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2



Client Semple ID			0004	0000	0000	0004
Client Sample ID			SS01	SS02	SS03	SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Fe53787	S21-Fe53788	S21-Fe53789	S21-Fe53790
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.5	< 0.5	< 0.5
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	120	INT	146	149
Acid Herbicides	I					
2.4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	79	82	80	82
Ammonia (as N)	5	mg/kg	< 5	< 5	< 5	< 5
Sulphate (as SO4)	10	mg/kg	13	< 10	41	63
Sulphur	5	mg/kg	85	95	57	66
% Moisture	1	%	5.3	2.9	6.0	6.3
Heavy Metals		,		1		
Arsenic	2	mg/kg	16	21	17	25
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	39	46	46	62
Copper	5	mg/kg	17	18	18	17



Client Sample ID Sample Matrix Eurofins Sample No.			SS01 Soil S21-Fe53787	SS02 Soil S21-Fe53788	SS03 Soil S21-Fe53789	SS04 Soil S21-Fe53790
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	16	21	21	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	21	19	23
Zinc	5	mg/kg	48	62	58	68

Client Sample ID			SS05	SS06	SS07	DUPA
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Fe53791	S21-Fe53792	S21-Fe53793	S21-Fe53794
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions	1				
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
ВТЕХ						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	82
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions					
Naphthalene <sup>N02</sup>	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) <sup>N04</sup>	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)N01	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene <sup>N07</sup>	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5



Client Sample ID			SS05	SS06	SS07	DUPA
Sample Matrix			Soil	Soil	Soil	Soil
·						
Eurofins Sample No.			S21-Fe53791	S21-Fe53792	S21-Fe53793	S21-Fe53794
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons	ı	1				
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	104
p-Terphenyl-d14 (surr.)	1	%	-	-	-	117
Organochlorine Pesticides		1				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	104	116	111	102
Tetrachloro-m-xylene (surr.)	1	%	97	87	97	88
Organophosphorus Pesticides	ı	1				
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2



Client Semule ID			0005	0000	0007	BUBA
Client Sample ID			SS05	SS06	SS07	DUPA
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Fe53791	S21-Fe53792	S21-Fe53793	S21-Fe53794
Date Sampled			Feb 25, 2021	Feb 25, 2021	Feb 25, 2021	Feb 25, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	121	116	129	112
Acid Herbicides	0.5					0.5
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5 0.5	mg/kg		-	-	< 0.5 < 0.5
Actril (loxynil)		mg/kg				
Dichlororop	0.5	mg/kg	-	-	-	< 0.5 < 0.5
Dichlorprop Dinitro-o-cresol	0.5	mg/kg mg/kg				< 0.5
Dinoseb	0.5	mg/kg		_		< 0.5
MCPA	0.5	mg/kg		_	_	< 0.5
MCPB	0.5	mg/kg		_	_	< 0.5
Mecoprop	0.5			_	_	< 0.5
Warfarin (surr.)	1	mg/kg %	-			82
	'					
Ammonia (as N)	5	mg/kg	< 5	< 5	< 5	< 5
Sulphate (as SO4)	10	mg/kg	21	57	110	13
Sulphur	5	mg/kg	63	75	93	94
% Moisture	1	111g/kg %	5.4	9.4	16	20
Heavy Metals	1	1 /0	0.4	5.4	10	20
Arsenic	2	mg/kg	17	18	28	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	37	40	41	41
Copper	5	mg/kg	22	16	28	18
Lead	5	mg/kg	32	27	22	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1



Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			SS05 Soil S21-Fe53791 Feb 25, 2021	SS06 Soil S21-Fe53792 Feb 25, 2021	SS07 Soil S21-Fe53793 Feb 25, 2021	DUPA Soil S21-Fe53794 Feb 25, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	22	17	37	18
Zinc	5	mg/kg	37	46	110	48



#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Mar 02, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Mar 02, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Acid Herbicides	Melbourne	Mar 04, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Ammonia (as N)	Sydney	Mar 02, 2021	28 Days
- Method: LTM-INO-4200 Ammonia by Discrete Analyser			
Sulphate (as SO4)	Sydney	Mar 02, 2021	28 Days
- Method: E045 Anions by Ion Chromatography			
Sulphur	Melbourne	Mar 04, 2021	7 Days
- Method: LTM-MET-3010 Alkali Metals Sulfur Silicon and Phosphorus by ICP-AES			
% Moisture	Sydney	Feb 26, 2021	14 Days



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Company Name: Clean TeQ Sunrise Pty Ltd

Level 6, 350 Collins Street

Melbourne

VIC 3000

Project Name:

Address:

TRUNDLE RAIL SLIDING

**Project ID:** 2021-GD006

 Order No.:
 14542
 Received:
 Feb 26, 2021 8:40 AM

 Report #:
 776840
 Due:
 Mar 4, 2021

 Report #:
 776840
 Due:
 Mar 4,

 Phone:
 03 9797 6777
 Priority:
 5 Day

9706 8344 Contact Name: James Morrow

**Eurofins Analytical Services Manager: Michael Morrison** 

		Sa	mple Detail			Ammonia (as N)	Asbestos - AS4964	Sulphate (as SO4)	Sulphur	Acid Herbicides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B10
Melk	ourne Laborat	ory - NATA Site	# 1254 & 142	271					Х	Х				
Syd	ney Laboratory	- NATA Site # 1	8217			Х	Х	Х			Х	Х	Х	Х
		y - NATA Site #												
		NATA Site # 237	36											
	field Laboratory													
Exte	rnal Laboratory	<u>/</u>			_									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	SS01	Feb 25, 2021		Soil	S21-Fe53787	Х	Х	Х	Х	Х			Х	Х
2	SS02	Feb 25, 2021		Soil	S21-Fe53788	Х	Х	Х	Х	Х			Х	Х
3	SS03	Feb 25, 2021		Soil	S21-Fe53789	Х	Х	Х	Х	Х			Х	Х
4	SS04	Feb 25, 2021		Soil	S21-Fe53790	Х	Х	Х	Х	Х			Х	Х
5	SS05	Feb 25, 2021		Soil	S21-Fe53791	Х		Х	Х		Х	Х	Х	
6	SS06	Feb 25, 2021		Soil	S21-Fe53792	Х		Х	Х		Х	Х	Х	
7	SS07	Feb 25, 2021		Soil	S21-Fe53793	Х		Х	Х		Х	Х	Х	
8	8 DUPA Feb 25, 2021 Soil S21-Fe53794					Х	Х	Х	Х	Х			Х	Х
Test	Counts					8	5	8	8	5	3	3	8	5



#### **Internal Quality Control Review and Glossary**

#### General

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

#### **Holding Times**

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

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

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

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

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

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

#### Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ug/L: micrograms per litre

org/100mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100mL: Most Probable Number of organisms per 100 millilitres

#### **Terms**

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

LOR Limit of Reporting

SPIKE Addition of the analyte to the sample and reported as percentage recovery.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

LCS Laboratory Control Sample - reported as percent recovery.

CRM Certified Reference Material - reported as percent recovery.

Method Blank In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.

**Surr - Surrogate** The addition of a like compound to the analyte target and reported as percentage recovery.

**Duplicate** A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

USEPA United States Environmental Protection Agency

APHA American Public Health Association
TCLP Toxicity Characteristic Leaching Procedure

COC Chain of Custody
SRA Sample Receipt Advice

QSM US Department of Defense Quality Systems Manual Version 5.3

CP Client Parent - QC was performed on samples pertaining to this report

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

TEQ Toxic Equivalency Quotient

#### QC - Acceptance Criteria

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

Results <10 times the LOR: No Limit

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

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

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

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

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

#### **QC Data General Comments**

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time.

  Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



## **Quality Control Results**

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank					
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	mg/kg	< 20	20	Pass	
TRH C10-C14	mg/kg	< 20	20	Pass	
TRH C15-C28	mg/kg	< 50	50	Pass	
TRH C29-C36	mg/kg	< 50	50	Pass	
Method Blank					
BTEX					
Benzene	mg/kg	< 0.1	0.1	Pass	
Toluene	mg/kg	< 0.1	0.1	Pass	
Ethylbenzene	mg/kg	< 0.1	0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2	0.2	Pass	
o-Xylene	mg/kg	< 0.1	0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3	0.3	Pass	
Method Blank					
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene	mg/kg	< 0.5	0.5	Pass	
TRH C6-C10	mg/kg	< 20	20	Pass	
TRH >C10-C16	mg/kg	< 50	50	Pass	
TRH >C16-C34	mg/kg	< 100	100	Pass	
TRH >C34-C40	mg/kg	< 100	100	Pass	
Method Blank		1100	100	1 400	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	mg/kg	< 0.5	0.5	Pass	
Acenaphthylene	mg/kg	< 0.5	0.5	Pass	
Anthracene	mg/kg	< 0.5	0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5	0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5	0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5	0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Chrysene	mg/kg	< 0.5	0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5	0.5	Pass	
Fluoranthene	mg/kg	< 0.5	0.5	Pass	
Fluorene	mg/kg	< 0.5	0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5	0.5	Pass	
Naphthalene	mg/kg	< 0.5	0.5	Pass	
Phenanthrene	mg/kg	< 0.5	0.5	Pass	
Pyrene	mg/kg	< 0.5	0.5	Pass	
Method Blank	IIIg/kg	< 0.5	0.5	1 033	
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-BHC	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-BHC		< 0.05	0.05	Pass	
	mg/kg				
d-BHC	mg/kg	< 0.05	0.05	Pass	
Dieldrin Endosulfan I	mg/kg mg/kg	< 0.05 < 0.05	0.05	Pass	
	i ma/ka	1 < U U5	0.05	Pass	I



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.2	0.2	Pass	
Toxaphene	mg/kg	< 0.1	0.1	Pass	
Method Blank	ı mg/ng	1 0.1	0.1	1 400	
Organophosphorus Pesticides					
Azinphos-methyl	mg/kg	< 0.2	0.2	Pass	
Bolstar	mg/kg	< 0.2	0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2	0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2	0.2	Pass	
Chlorpyrifos-methyl	mg/kg mg/kg	< 0.2	0.2	Pass	
		i i			
Coumaphos S	mg/kg	< 2	2	Pass	
Demeton-S	mg/kg	< 0.2	0.2	Pass	
Demeton-O	mg/kg	< 0.2	0.2	Pass	
Diazinon	mg/kg	< 0.2	0.2	Pass	
Dichlorvos	mg/kg	< 0.2	0.2	Pass	
Dimethoate	mg/kg	< 0.2	0.2	Pass	
Disulfoton	mg/kg	< 0.2	0.2	Pass	
EPN	mg/kg	< 0.2	0.2	Pass	
Ethion	mg/kg	< 0.2	0.2	Pass	
Ethoprop	mg/kg	< 0.2	0.2	Pass	
Ethyl parathion	mg/kg	< 0.2	0.2	Pass	
Fenitrothion	mg/kg	< 0.2	0.2	Pass	
Fensulfothion	mg/kg	< 0.2	0.2	Pass	
Fenthion	mg/kg	< 0.2	0.2	Pass	
Malathion	mg/kg	< 0.2	0.2	Pass	
Merphos	mg/kg	< 0.2	0.2	Pass	
Methyl parathion	mg/kg	< 0.2	0.2	Pass	
Mevinphos	mg/kg	< 0.2	0.2	Pass	
Monocrotophos	mg/kg	< 2	2	Pass	
Naled	mg/kg	< 0.2	0.2	Pass	
Omethoate	mg/kg	< 2	2	Pass	
Phorate	mg/kg	< 0.2	0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2	0.2	Pass	
Pyrazophos	mg/kg	< 0.2	0.2	Pass	
Ronnel	mg/kg	< 0.2	0.2	Pass	
Terbufos	mg/kg	< 0.2	0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2	0.2	Pass	
Tokuthion	mg/kg	< 0.2	0.2	Pass	
Trichloronate	mg/kg	< 0.2	0.2	Pass	
Method Blank	, ···ə···ə		, , , , , , ,		
Acid Herbicides					
2.4-D	mg/kg	< 0.5	0.5	Pass	
2.4-DB	mg/kg	< 0.5	0.5	Pass	
2.4.5-T	mg/kg	< 0.5	0.5	Pass	
2.4.5-TP	mg/kg	< 0.5	0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5	0.5	Pass	
			1 0.0	1 433	1



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Dichlorprop	mg/kg	< 0.5	0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5	0.5	Pass	
Dinoseb	mg/kg	< 0.5	0.5	Pass	
MCPA	mg/kg	< 0.5	0.5	Pass	
МСРВ	mg/kg	< 0.5	0.5	Pass	
Mecoprop	mg/kg	< 0.5	0.5	Pass	
Method Blank					
Ammonia (as N)	mg/kg	< 5	5	Pass	
Sulphate (as SO4)	mg/kg	< 10	10	Pass	
Method Blank					
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Cadmium	mg/kg	< 0.4	0.4	Pass	
Chromium	mg/kg	< 5	5	Pass	
Copper	mg/kg	< 5	5	Pass	
Lead	mg/kg	< 5	5	Pass	
Mercury	mg/kg	< 0.1	0.1	Pass	
Nickel	mg/kg	< 5	5	Pass	
Zinc	mg/kg	< 5	5	Pass	
LCS - % Recovery	1			1 3.00	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	%	85	70-130	Pass	
TRH C10-C14	%	75	70-130	Pass	
LCS - % Recovery	70	10	70 100	1 455	
BTEX					
Benzene	%	90	70-130	Pass	
Toluene	%	92	70-130	Pass	
Ethylbenzene	%	93	70-130	Pass	
m&p-Xylenes	%	94	70-130	Pass	
o-Xylene	%	96	70-130	Pass	
Xylenes - Total*	%	94	70-130	Pass	
LCS - % Recovery	70	J J T	70 100	1 455	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene	%	86	70-130	Pass	
TRH C6-C10	%	83	70-130	Pass	
TRH >C10-C16	%	75	70-130	Pass	
LCS - % Recovery	,,,	,,,	70 100	1 400	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	81	70-130	Pass	
Acenaphthylene	%	90	70-130	Pass	
Anthracene	%	86	70-130	Pass	
Benz(a)anthracene	%	91	70-130	Pass	
Benzo(a)pyrene	%	93	70-130	Pass	
Benzo(b&j)fluoranthene	%	92	70-130	Pass	
Benzo(g.h.i)perylene	%	83	70-130	Pass	
Benzo(k)fluoranthene	%	86	70-130	Pass	
Chrysene	%	87	70-130	Pass	
Dibenz(a.h)anthracene	%	89	70-130	Pass	
Fluoranthene	%	83	70-130	Pass	
Fluorantnene	%	85	70-130	Pass	
	%	88			
Indeno(1.2.3-cd)pyrene	%		70-130	Pass	
Naphthalene	1	81	70-130	Pass	
Phenanthrene	%	79	70-130	Pass	
Pyrene	%	84	70-130	Pass	



Test	Units	Result 1	Accep Lim	tance Pass	
LCS - % Recovery					
Organochlorine Pesticides					
Chlordanes - Total	%	94	70-1	30 Pass	
4.4'-DDD	%	73	70-1	30 Pass	
4.4'-DDE	%	101	70-1	30 Pass	
4.4'-DDT	%	93	70-1	30 Pass	
a-BHC	%	91	70-1	30 Pass	
Aldrin	%	100	70-1	30 Pass	
b-BHC	%	95	70-1	30 Pass	
d-BHC	%	89	70-1	30 Pass	
Dieldrin	%	77	70-1	30 Pass	
Endosulfan I	%	92	70-1	30 Pass	
Endosulfan II	%	86	70-1	30 Pass	
Endosulfan sulphate	%	99	70-1	30 Pass	
Endrin	%	110	70-1	30 Pass	
Endrin aldehyde	%	76	70-1	30 Pass	
Endrin ketone	%	83	70-1	30 Pass	
g-BHC (Lindane)	%	96	70-1		
Heptachlor	%	93	70-1	30 Pass	
Heptachlor epoxide	%	95	70-1	30 Pass	
Hexachlorobenzene	%	99	70-1	30 Pass	
Methoxychlor	%	104	70-1	30 Pass	
LCS - % Recovery					
Organophosphorus Pesticides					
Diazinon	%	97	70-1	30 Pass	
Dimethoate	%	121	70-1	30 Pass	
Ethion	%	130	70-1	30 Pass	
Mevinphos	%	86	70-1	30 Pass	
LCS - % Recovery					
Acid Herbicides					
2.4-D	%	105	70-1	30 Pass	
2.4-DB	%	91	70-1	30 Pass	
2.4.5-T	%	109	70-1	30 Pass	
2.4.5-TP	%	110	70-1	30 Pass	
Actril (loxynil)	%	97	70-1	30 Pass	
Dicamba	%	104	70-1	30 Pass	
Dichlorprop	%	102	70-1	30 Pass	
Dinitro-o-cresol	%	108	70-1	30 Pass	
Dinoseb	%	110	70-1	30 Pass	
MCPA	%	90	70-1	30 Pass	
MCPB	%	90	70-1	30 Pass	
Mecoprop	%	94	70-1	30 Pass	
LCS - % Recovery					
Sulphate (as SO4)	%	82	70-1	30 Pass	
LCS - % Recovery					
Heavy Metals					
Arsenic	%	108	80-1	20 Pass	
Cadmium	%	110	80-1		
Chromium	%	116	80-1		
Copper	%	118	80-1		
Lead	%	119	80-1		
Mercury	%	117	80-1		
Nickel	%	117	80-1		
Zinc	%	108	80-1		



Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons	- 1999 NEPM Fract	tions		Result 1			
TRH C6-C9	S21-Fe51090	NCP	%	83	70-130	Pass	
TRH C10-C14	S21-Ma06214	NCP	%	77	70-130	Pass	
Spike - % Recovery							
BTEX				Result 1			
Benzene	S21-Fe51090	NCP	%	81	70-130	Pass	
Toluene	S21-Fe51090	NCP	%	71	70-130	Pass	
Ethylbenzene	S21-Fe51090	NCP	%	84	70-130	Pass	
m&p-Xylenes	S21-Fe51090	NCP	%	93	70-130	Pass	
o-Xylene	S21-Fe51090	NCP	%	118	70-130	Pass	
Xylenes - Total*	S21-Fe51090	NCP	%	102	70-130	Pass	
Spike - % Recovery							
Total Recoverable Hydrocarbons	- 2013 NEPM Fract	ions		Result 1			
Naphthalene	S21-Fe51090	NCP	%	104	70-130	Pass	
TRH C6-C10	S21-Fe51090	NCP	%	86	70-130	Pass	
TRH >C10-C16	S21-Ma06214	NCP	%	76	70-130	Pass	
Spike - % Recovery							
Polycyclic Aromatic Hydrocarbon	ıs			Result 1			
Acenaphthene	S21-Fe51198	NCP	%	95	70-130	Pass	
Acenaphthylene	S21-Fe51198	NCP	%	109	70-130	Pass	
Anthracene	S21-Fe51198	NCP	%	100	70-130	Pass	
Benz(a)anthracene	S21-Fe51198	NCP	%	108	70-130	Pass	
Benzo(a)pyrene	S21-Fe51198	NCP	%	112	70-130	Pass	
Benzo(b&j)fluoranthene	S21-Fe51198	NCP	%	112	70-130	Pass	
Benzo(g.h.i)perylene	S21-Fe51198	NCP	%	111	70-130	Pass	
Benzo(k)fluoranthene	S21-Fe51198	NCP	%	101	70-130	Pass	
Chrysene	S21-Fe51198	NCP	%	95	70-130	Pass	
Dibenz(a.h)anthracene	S21-Fe51198	NCP	%	107	70-130	Pass	
Fluoranthene	S21-Fe51198	NCP	%	98	70-130	Pass	
Fluorene	S21-Fe51198	NCP	%	105	70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Fe51198	NCP	%	104	70-130	Pass	
Naphthalene	S21-Fe51198	NCP	%	94	70-130	Pass	
Phenanthrene	S21-Fe51198	NCP	%	91	70-130	Pass	
Pyrene	S21-Fe51198	NCP	%	100	70-130	Pass	
Spike - % Recovery							
Organochlorine Pesticides				Result 1			
Chlordanes - Total	S21-Ma01534	NCP	%	75	70-130	Pass	
4.4'-DDD	S21-Ma01534	NCP	%	90	70-130	Pass	
4.4'-DDE	S21-Ma01534	NCP	%	92	70-130	Pass	
a-BHC	S21-Ma01534	NCP	%	84	70-130	Pass	
Aldrin	S21-Ma01534	NCP	%	88	70-130	Pass	
b-BHC	S21-Ma01534	NCP	%	89	70-130	Pass	
d-BHC	S21-Ma01534	NCP	%	87	70-130	Pass	
Dieldrin	S21-Ma01534	NCP	%	79	70-130	Pass	
Endosulfan I	S21-Ma01534	NCP	%	88	70-130	Pass	
Endosulfan II	S21-Ma01534	NCP	%	88	70-130	Pass	
Endosulfan sulphate	S21-Ma01534	NCP	%	94	70-130	Pass	
Endrin	S21-Ma01534	NCP	%	115	70-130	Pass	
Endrin ketone	S21-Ma01534	NCP	%	80	70-130	Pass	
g-BHC (Lindane)	S21-Ma01534	NCP	%	84	70-130	Pass	
Heptachlor	S21-Ma01534	NCP	%	80	70-130	Pass	
Heptachlor epoxide	S21-Ma01534	NCP	%	92	70-130	Pass	
Hexachlorobenzene	S21-Ma01534	NCP	%	83	70-130	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	S21-Ma01534	NCP	%	89			70-130	Pass	
Spike - % Recovery		<u>'</u>		_			1		
Organochlorine Pesticides				Result 1					
4.4'-DDT	S21-Fe53806	NCP	%	85			70-130	Pass	
Endrin aldehyde	S21-Fe53806	NCP	%	106			70-130	Pass	
Spike - % Recovery							•		
Organophosphorus Pesticides				Result 1					
Diazinon	S21-Fe53806	NCP	%	114			70-130	Pass	
Dimethoate	S21-Fe51090	NCP	%	121			70-130	Pass	
Ethion	S21-Fe48824	NCP	%	91			70-130	Pass	
Fenitrothion	S21-Fe53806	NCP	%	84			70-130	Pass	
Methyl parathion	S21-Fe53806	NCP	%	85			70-130	Pass	
Mevinphos	S21-Fe53806	NCP	<u> </u>	105			70-130	Pass	
	321-7633606	INCF	70	100			70-130	Fass	
Spike - % Recovery				Danult 4	T				
Ammonia (aa NI)	CO4 F-50700	CD	0/	Result 1			70.400	Dess	
Ammonia (as N)	S21-Fe53788	CP	%	87			70-130	Pass	
Spike - % Recovery				Desided					
0.454.54.54.50.00	004 5 55555	05	0.4	Result 1			70.460		
Sulphate (as SO4)	S21-Fe53790	CP	%	91			70-130	Pass	
Spike - % Recovery				1	T I			Γ	
Heavy Metals	1	1		Result 1					
Arsenic	S21-Fe53791	CP	%	125			75-125	Pass	
Cadmium	S21-Fe53791	CP	%	120			75-125	Pass	
Chromium	S21-Fe53791	CP	%	117			75-125	Pass	
Copper	S21-Fe53791	CP	%	102			75-125	Pass	
Lead	S21-Fe53791	CP	%	84			75-125	Pass	
Mercury	S21-Fe53791	CP	%	109			75-125	Pass	
Nickel	S21-Fe53791	CP	%	105			75-125	Pass	
Zinc	S21-Fe53791	CP	%	116			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate				1	1				
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	S21-Fe53787	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Fe53787	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Fe53787	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Fe53787	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Fe53787	СР	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Fe53787	СР	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Fe53787	СР	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate				•	·		•		
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	S21-Fe53787	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Fe53787	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate	0211000707		mg/Rg	1 120			0070	1 433	
Polycyclic Aromatic Hydrocarbons	<u> </u>			Result 1	Result 2	RPD			
Acenaphthene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1 <1	30%	Pass	
, ,									
Anthracene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



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Duplicate  Deliver l'a Assessité Heales authorise				Door It 4	D It O	DDD	l		
Polycyclic Aromatic Hydrocarb		NOD	,,	Result 1	Result 2	RPD	000/	_	
Benzo(k)fluoranthene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ma03176	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				D 11.4	D 11.0	222	I		
Organochlorine Pesticides	20111 20172			Result 1	Result 2	RPD	222/	<del>   </del>	
Chlordanes - Total	S21-Ma03176	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ma03176	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
<b>Organophosphorus Pesticides</b>				Result 1	Result 2	RPD			
Azinphos-methyl	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-Ma03176	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
			J .J				·	1	



Duplicate									
Organophosphorus Pesticid	les			Result 1	Result 2	RPD			
Methyl parathion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-Ma03176	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-Ma03176	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-Ma03176	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate				<u> </u>	•				
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
МСРВ	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	M21-Fe54613	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate			<u> </u>						
.,				Result 1	Result 2	RPD		T	
Sulphur	S21-Fe53787	CP	mg/kg	85	77	10	30%	Pass	
Duplicate		-	<u> </u>						
Total Recoverable Hydrocar	bons - 1999 NEPM Fract	ions		Result 1	Result 2	RPD		T	
TRH C10-C14	S21-Fe53789	СР	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Fe53789	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Fe53789	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate				_					
Total Recoverable Hydrocar	bons - 2013 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH >C10-C16	S21-Fe53789	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Fe53789	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Fe53789	СР	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Fe53790	СР	mg/kg	25	25	<1	30%	Pass	
Cadmium	S21-Fe53790	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Fe53790	CP	mg/kg	62	52	16	30%	Pass	
Copper	S21-Fe53790	CP	mg/kg	17	18	4.0	30%	Pass	
Lead	S21-Fe53790	CP	mg/kg	19	20	3.0	30%	Pass	
Mercury	S21-Fe53790	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Fe53790	CP	mg/kg	23	20	14	30%	Pass	
Zinc	S21-Fe53790	CP	mg/kg	68	75	11	30%	Pass	
Duplicate	,		. <u> </u>						
				Result 1	Result 2	RPD			
	S21-Fe53792	СР	%	9.4	8.4	11	30%	Pass	



#### Comments

## Sample Integrity

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

#### **Qualifier Codes/Comments**

Code Description

F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).

N01

Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.

N02

F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. N04

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs N07

#### Authorised by:

Adrian Tabacchiera Analytical Services Manager Andrew Sullivan Senior Analyst-Organic (NSW) Charl Du Preez Senior Analyst-Inorganic (NSW) Emily Rosenberg Senior Analyst-Metal (VIC) Senior Analyst-Metal (NSW) John Nauven Joseph Edouard Senior Analyst-Organic (VIC)

Glenn Jackson **General Manager** 

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- \* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here

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# Certificate of Analysis

# **Environment Testing**

Clean TeQ Sunrise Pty Ltd Level 6, 350 Collins Street Melbourne VIC 3000





NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: James Morrow Report 776840-AID

Project Name TRUNDLE RAIL SLIDING

 Project ID
 2021-GD006

 Received Date
 Feb 26, 2021

 Date Reported
 Mar 07, 2021

### Methodology:

Asbestos Fibre Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

independent technique.

Subsampling Soil Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a subsampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestoscontaining material (ACM) The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 %" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.



Date Reported: Mar 07, 2021

# **Environment Testing**





Accredited for compliance with ISO/IEC 17025–Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Page 2 of 6

**Project Name** TRUNDLE RAIL SLIDING

**Project ID** 2021-GD006 **Date Sampled** Feb 25, 2021 Report 776840-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SS01	21-Fe53787	Feb 25, 2021	Approximate Sample 75g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
SS02	21-Fe53788	Feb 25, 2021	Approximate Sample 73g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
SS03	21-Fe53789	Feb 25, 2021	Approximate Sample 86g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
SS04	21-Fe53790	Feb 25, 2021	Approximate Sample 55g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
DUPA	21-Fe53794	Feb 25, 2021	Approximate Sample 95g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

ABN: 50 005 085 521 Telephone: +61 2 9900 8400 Report Number: 776840-AID



## **Sample History**

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

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

DescriptionTesting SiteExtractedHolding TimeAsbestos - LTM-ASB-8020SydneyFeb 26, 2021Indefinite



#### Australia

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New Zealand

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ABN: 50 005 085 521 web; www.eurofins.com.au email: EnviroSales@eurofins.com Site # 1254 & 14271

Clean TeQ Sunrise Pty Ltd

Level 6, 350 Collins Street Melbourne

VIC 3000

**Project Name:** 

**Company Name:** 

Address:

TRUNDLE RAIL SLIDING

Project ID:

2021-GD006

Order No.: 14542 Received: Feb 26, 2021 8:40 AM Report #: 776840 Due: Mar 4, 2021

Phone: 03 9797 6777 Priority: 5 Day 9706 8344 **Contact Name:** James Morrow

**Eurofins Analytical Services Manager: Michael Morrison** 

	Time           SS01         Feb 25, 2021         Soil         S21-Fe53           SS02         Feb 25, 2021         Soil         S21-Fe53           SS03         Feb 25, 2021         Soil         S21-Fe53           SS04         Feb 25, 2021         Soil         S21-Fe53           SS05         Feb 25, 2021         Soil         S21-Fe53           SS06         Feb 25, 2021         Soil         S21-Fe53           SS07         Feb 25, 2021         Soil         S21-Fe53		Ammonia (as N)	Asbestos - AS4964	Sulphate (as SO4)	Sulphur	Acid Herbicides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B10			
Melk	ourne Laborate	ory - NATA Site	# 1254 & 142	71					Х	Х				
Sydi	ney Laboratory	- NATA Site # 1	8217			Х	Х	Х			Х	Х	Х	Х
Bris	bane Laborator	y - NATA Site #	20794											
Pert	h Laboratory - I	NATA Site # 237	36											
May	field Laboratory	/												
Exte	rnal Laboratory	<u>/</u>			_									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	SS01	Feb 25, 2021		Soil	S21-Fe53787	Х	Х	Х	Х	Х			Х	Х
2	SS02	Feb 25, 2021		Soil	S21-Fe53788	Х	Х	Х	Х	Х			Х	Х
3	SS03	Feb 25, 2021		Soil	S21-Fe53789	Х	Х	Х	Х	Х			Х	Х
4	SS04	Feb 25, 2021		Soil	S21-Fe53790	Х	Х	Х	Х	Х			Х	Х
5	SS05	Feb 25, 2021		Soil	S21-Fe53791	Х		Х	Х		Х	Х	Х	
6	SS06	Feb 25, 2021		Soil	S21-Fe53792	Х		Х	Х		Х	Х	Х	
7	SS07	Feb 25, 2021		Soil	S21-Fe53793	Х		Х	Х		Х	Х	Х	
8	DUPA	Feb 25, 2021		Soil	S21-Fe53794	Х	Х	Х	Х	Х			Х	Х
Test	Counts					8	5	8	8	5	3	3	8	5

Page 4 of 6



#### **Internal Quality Control Review and Glossary**

#### General

- 1. QC data may be available on request.
- 2. All soil results are reported on a dry basis, unless otherwise stated
- 3. Samples were analysed on an 'as received' basis.
- 4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- 5. This report replaces any interim results previously issued.

#### **Holding Times**

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

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis grams per kilogram
Filter loading: fibres/100 graticule areas

Reported Concentration: fibres/mL Flowrate: L/min

Terms

FA

Date Reported: Mar 07, 2021

Dry Sample is dried by heating prior to analysis

LOR Limit of Reporting
COC Chain of Custody
SRA Sample Receipt Advice

ISO International Standards Organisation

AS Australian Standards

WA DOH Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated

Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)

NEPM National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)

ACM Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the

NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.

Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".

Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those

materials that do not pass a 7mm x 7mm sieve.

Friable

Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is

Asbestos-containing materials of any size that may be broke outside of the laboratory's remit to assess degree of friability

Trace Analysis Analytical procedure used to detect the presence of respirable fibres in the matrix.

Eurofins Environment Testing Unit F3, Building F, 16 Mars Road, Lane Cove West, NSW, Australia, 2066
ABN: 50 005 085 521 Telephone: +61 2 9900 8400

Page 5 of 6



#### Comments

The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

#### Sample Integrity

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

#### **Qualifier Codes/Comments**

Code Description N/A Not applicable

#### **Asbestos Counter/Identifier:**

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

#### Authorised by:

Sayeed Abu Senior Analyst-Asbestos (NSW)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- \* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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

**Company Name:** 

Clean TeQ Sunrise Pty Ltd Level 6, 350 Collins Street

Melbourne

VIC 3000

**Project Name:** 

Address:

TRUNDLE RAIL SLIDING

Project ID:

2021-GD006

Order No.: 14542 Received: Feb 26, 2021 8:40 AM Report #: Due: Mar 4, 2021

776840 Phone: 03 9797 6777 **Priority:** 5 Day

9706 8344 **Contact Name:** James Morrow

**Eurofins Analytical Services Manager: Michael Morrison** 

			mple Detail			Ammonia (as N)	Asbestos - AS4964	Sulphate (as SO4)	Sulphur	Acid Herbicides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B10	
		ory - NATA Site		271					Х	Х				<u> </u>	
		- NATA Site # 1				Х	Х	Х			Х	Х	Х	Х	
		y - NATA Site #												<u> </u>	
		NATA Site # 237	36											<u> </u>	
	field Laborator													<u> </u>	
Exte	rnal Laboratory	/		1	_									<u> </u>	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
1	SS01	Feb 25, 2021		Soil	S21-Fe53787	Х	Х	Х	Х	Х			Х	Х	
2	SS02	Feb 25, 2021		Soil	S21-Fe53788	Х	Х	Х	Х	Х			Х	Х	
3	SS03	Feb 25, 2021		Soil	S21-Fe53789	Х	Х	Х	Х	Х			Х	Х	
4	SS04	Feb 25, 2021		Soil	S21-Fe53790	Х	Х	Х	Х	Х			Х	Х	
5	SS05	Feb 25, 2021		Soil	S21-Fe53791	Х		Х	Х		Х	Х	Х	L	
6	SS06	Feb 25, 2021		Soil	S21-Fe53792	Х		Х	Х		Х	Х	Х	L	
7	SS07	Feb 25, 2021		Soil	S21-Fe53793	Х		Х	Х		Х	Х	Х	L	
8	DUPA	Feb 25, 2021		Soil	S21-Fe53794	Х	Х	Х	Х	Х			Х	Х	
Test	Counts					8	5	8	8	5	3	3	8	5	

CHAIN OF CUSTODY RECORD Sydney L Eurofins I mgt ABN 50 005 085 521 02 9608 84

Brisbane Laboratory	Unit 1 21 Smallwood Place Muramie QLD 4172	97 3902 4600 EnviroSampleQLD@eurofins.com
Laboratory	d.F 16 Mars Road Lane Cove West NSW 2066	400 EnviroSampleNSW@eurofins.com

Melbourne Laboratory

Robouth VIC 3175

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Robouth VIC 3175

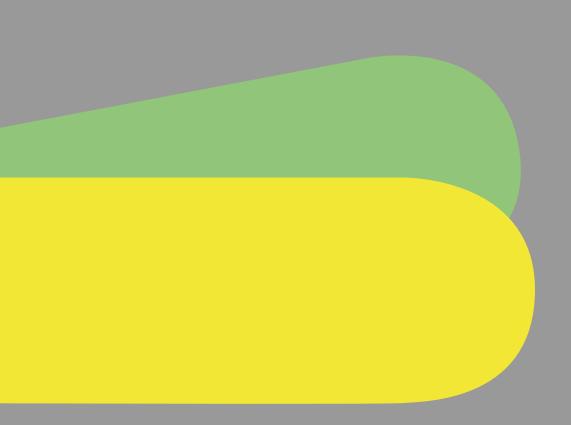
Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9900 EnviroSampleWA@eurofins.com

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lorrow	Іотом	@cleanteq.co	ounddoc.com cleanteq.com	Required Turnaround Tim Detaill will be 5 days if not ficke	<ul> <li>Surcharge will apply Overnight (reporting by 9am)*</li> </ul>			٦ .	Other( Sample Comments / Dangerous Goods Hazard Warning										THE REAL PROPERTY.	1430	0
James Morrow	James Morrow	Accounts.Sunrise@cleanteq.com	james.morrow@grounddoc.com.au Environment@cleanteq.com	Required T	Overnight	Same day		2 days (Standard)	Sample Dangerou										-	Time	Temperature
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Sampler(s)	Handed over by	Email for Involce	Email for Results	Containers Churiga container type		S	L Plastic L Plastic mber Glass mby List	m3St A Jm00S												Date	Times
				Ö			Plastic	m003													10/0/01
Bronwyn Flynn	AN																			JRM	,
ā																				fure	
Project Manager	EDD Format ESdar, EQuIS ato																			Signature	-
Projec	EGP Fo																			Јатев Мотом	
900	Siding																			7	
2021-GD006	Trundle Rail Siding																			Name	
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