15.3 POST EXHIBITION REPORT- PLANNING PROPOSAL- AMENDMENTS TO GOULBURN MULWAREE LEP SCHEDULE 1 ADDITIONAL PERMITTED USES AT 14 & 16 GEORGE ST, MARULAN AND 159 RIFLE RANGE ROAD, GOULBURN

Author: Senior Strategic Planner

**Director Planning & Environment** 

Authoriser: Warwick Bennett, General Manager

Attachments: 1. Targeted Detailed Site Investigation Report Sept 2021 (separately

enclosed) 幸 🛣

2. Marulan Truckstop Remedial Action Plan (separately enclosed) <u>⇒</u> **□** 

3. Agency Referrals Revised (separately enclosed) ⇒ 🖺

4. Public Submissions Combined (separately enclosed) ⇒ 🖫

Reference to LSPS:	Planning Priority 4: Housing — Vision 2040 - A range and diversity in housing type, which is contextual and affordable and is primarily centred around Goulburn and Marulan.
	Planning Priority 6: Industry and Economy – Vision 2040 – Local industry provides for the employment needs of the region within a thriving and diversified economy which is resilient to change.
Planning Proposal Reference:	REZ/0002/2021
Submissions:	5 Public Submissions

#### RECOMMENDATION

That:

- 1. The post exhibition report from the Senior Strategic Planner for the planning proposal to amend LEP Schedule 1 (Additional Permitted Uses) be received.
- 2. Council endorse the current planning proposal to amend Schedule 1: Additional Permitted Uses of the Goulburn Mulwaree Local Environmental Plan (LEP) 2009 to:
  - Provide permissibility for a fast food restaurant (food and drink premises) on Lot 2, DP 1053945 at 14 George Street, Marulan;
  - Provide permissibility for motel accommodation and pub with ancillary bottle shop on Lot
     3, DP 1053945 at 16 George Street, Marulan; and
  - Provide permissibility for a single dwelling house including a 74ha minimum lot size restriction at Lot 1, DP 706477 at 159 Rifle Range Road, Goulburn.
- 3. A draft instrument be prepared that is consistent with the above amendments.
- 4. The General Manager, using Council's delegated plan-making authority, prepare and finalise the LEP amendments as soon as practicable.

Section 375A of the *Local Government Act 1993* requires General Managers to record which Councillors vote for and against each planning decision of the Council, and to make this information publicly available.

# **BACKGROUND**

Two separate council reports were submitted for consideration by Council at its meeting on 6 April 2021, where Council resolved to prepare a planning proposal to amend Schedule 1 of the *Goulburn Mulwaree Local Environmental Plan 2009* (Goulburn Mulwaree LEP) to include the following additional permitted uses:

- fast food restaurant (food and drink premises) on Lot 2 at 14 George Street, Marulan;
- motel/hotel accommodation and pub with ancillary bottle shop on Lot 3 at 16 George Street, Marulan; and
- single dwelling house including a 74ha minimum lot size restriction at 159 Rifle Range Road, Goulburn.

A planning proposal (REZ/0002/2021) was prepared which included amendments relating to both Goulburn and Marulan sites and a Gateway Determination to proceed was received on 22 July 2021 with delegated authority provided to the Council.

The public exhibition for the planning proposal ran for 29 days between 6 September 2021 and 5 October 2021 with late submissions accepted up until 28 October 2021 (which falls after the creation of the business paper for this meeting). Five (5) public submissions relating to the Marulan Truckstop element of the proposal were received with no public submissions relating to the 159 Rifle Range Road component. Agency submissions were received from Water NSW, Transport for NSW, NSW Rural Fire Service and the Biodiversity and Conservation Division of Department of Planning, Industry and Environment.

#### 159 Rifle Range Road

The site is a large rural lot approximately 3km to the east of the Goulburn urban area, standing adjacent the Goulburn Rifle Club Shooting Range and divided by the Hume Highway. The adoption of the *Goulburn Mulwaree Local Environmental Plan 2009* (Goulburn Mulwaree LEP) applied separate land zones to the one lot separated by the Highway.

An E2 Environmental Conservation Zone was applied to the approximately 74.5 hectare northern land parcel with a minimum lot size of 100 hectares and a RU6 Transition Zone was applied to the 43 hectare southern parcel with a 20 hectare minimum lot size, as illustrated in **Figure 1**.

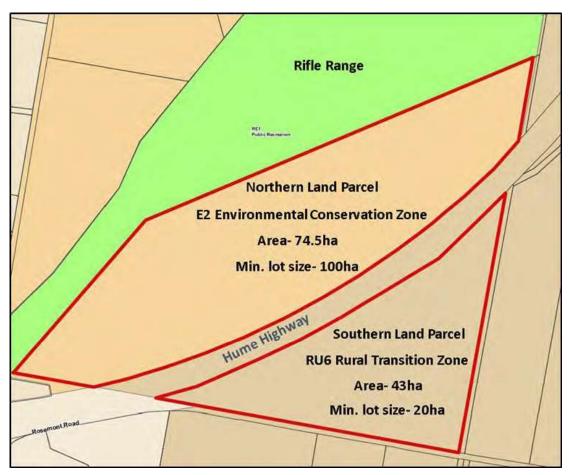


Figure 1: Land use zone, site area & minimum lot size for 159 Rifle Range Road

The current E2 Environmental Conservation zoning prevents the establishment of a dwelling and the minimum lot size prevents subdivision from the RU6 Transition zoned land to the south. These restrictions also prevent further subdivision of the RU6 Transition zoned land.

The *Urban and Fringe Housing Strategy* sought to rectify this zoning anomaly by identifying the:

"Opportunity to address zoning anomaly created between Environmental and RU6 Zones between Mt Gray and Mountain Ash Precincts".

The strategy also included a high priority recommendation to:

"Amend the Goulburn Mulwaree LEP to address anomalies in split zone created by Highway".

This element of the planning proposal is Council initiated and seeks to rectify this zoning anomaly and fulfil the recommendation of the *Urban and Fringe Housing Strategy*.

#### Marulan Truckstop 31

The Local Strategic Planning Statement identifies Goulburn and Marulan as the focus for residential and employment growth in the local government area. It identifies land use challenges to maximise opportunities to attract employment generating businesses to provide local employment and address the shortage of short term accommodation for fly in, fly out workers.

The *Urban and Fringe Housing Strategy* (the Strategy) directs the level and location of residential growth in Marulan and describes Marulan as a highway town which provides roadside services to passing traffic on the Hume Highway. It highlights strong recent population growth in Marulan with a 27% population increase between 2006 and 2016, which if maintained, would lead to an additional 450 dwellings by 2036. This strong population growth is supported by the Strategy

through the identification of existing undeveloped residential zoned land and land with residential rezoning potential.

This planned population growth also stands alongside additional employment opportunities in the local area, particularly relating to the extractive industries and the increase in traffic on the Hume Highway, with a 1.6% increase in traffic expected annually. The Marulan Truckstop planning proposal site comprises two lots with a total combined area of approximately 4 hectares, being lot 2 and lot 3, DP 1053945, as illustrated in **Figure 2.** 



Figure 2: Marulan Truckstop lot identification map

Lot 1 does not form part of the planning proposal but is in the same ownership with indicative plans provided to Council for its redevelopment at a later stage. The site is located to the south west of Marulan approximately 600 metres south of the Marulan local centre and 150 metres from the north-bound (Sydney-bound) exit of the Hume Highway.

An existing service station (Truckstop 31) occupies Lot 2, which is the larger of the two lots, and currently includes a restaurant and fuel forecourt. A small residential structure is currently sited on adjacent Lot 3 and Lot 1 is currently vacant. The site is zoned IN1 General Industrial with a variety of other land zones surrounding the site as illustrated in **Figure 3.** 

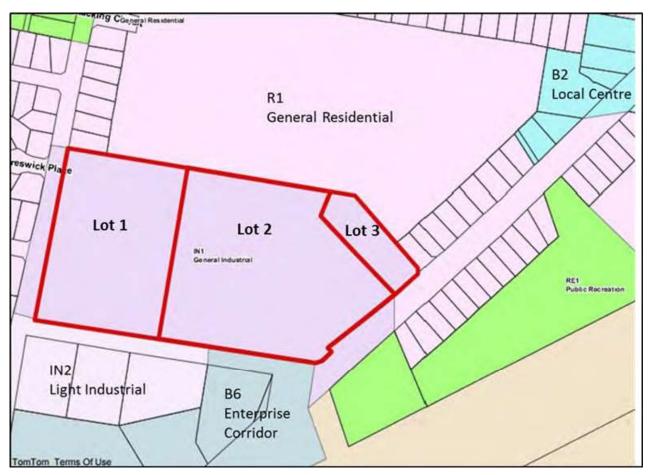


Figure 3: Marulan Truckstop zoning map

The site owner submitted a planning proposal to Council on 11 January 2021 seeking to amend the Goulburn Mulwaree LEP by permitting a fast food restaurant on Lot 2 and motel, pub and bottle shop on Lot 3.

This planning proposal is only one part of a wider redevelopment and upgrade proposal for the existing Truckstop and adjacent lots. A development application (DA/0299/2021) for a range of ancillary developments including a weighbridge and truck wash facility on the Truckstop site (Lot 2) was given consent on 27 May 2021 subject to a number of conditions. The improvements granted through this consent were permissible in the existing IN1 General Industrial zone without the need for a planning proposal.

The wider redevelopment of the Truckstop site including adjacent lots 1 and 3 is anticipated to be undertaken in the stages presented in **Table 1** below:

Table1: Indicative staging of Marulan Truckstop redevelopment

Stage	Applicable lot	Proposed	Approval Pathway
Stage 1	Lot 2	Redevelopment/improvement of existing service station including new fuel court canopy, truck wash and weighbridge.	DA/0299/2021 given consent on 27 May 2021- Subject to condition preventing disposal of waste water until Marulan Water Treatment plant

Stage	Applicable lot	Proposed	Approval Pathway	
			upgrade is complete	
	Lot 2	Development of supporting services including a fast food drive-thru restaurant fronting George Street with an area of approximately 498m² GFA, with:  Two drive thru ordering lanes and waiting bay lane, and  Car parking for 33 vehicles	Subject to the Planning	
Stage 2	Lot 3	<ul> <li>A pub fronting George Street with an area of approximately 839m² GFA plus roof top seating of 281m²</li> <li>An ancillary bottle shop as part of the pub, and</li> <li>A three level, 48 room motel with an area of approximately 3,144m² GFA to the rear of the lot which includes a swimming pool.</li> </ul>	Proposal Subsequent DA required	
Stage 3	Lot 1	Development of vacant site for warehousing/distribution	DA can be submitted as permissible use for the zone	

The uses which are not currently permissible in the current IN1 General Industrial Zone are the motel and the pub. The Truckstop use and the IN1 General Industrial zone currently enable the establishment of a fast food restaurant without the need for a planning proposal and a restaurant stands on the site currently. This element has been included in the proposal to enable the creation of a Torrens title on the part of Lot 2 illustrated in **Figure 2**. Neighbourhood shops with a floor space not exceeding 250m2 are also permissible within the current zone.

# **REPORT**

# 159 Rifle Range Road

As highlighted above, this component of the planning proposal is seeking to enable the creation of a dwelling entitlement on the northern E2 Environmental Conservation land parcel and rectify the zoning anomaly created by the introduction of the Goulburn Mulwaree LEP in 2009 and earlier Hume Highway bypass.

The current zoning on the northern E2 land parcel prohibits the use of the site for a dwelling house and the 100 hectare minimum lot size restriction (on this 74.5 hectare site) prevents subdivision from the southern land parcel and the establishment of a dwelling entitlement.

#### Proposed Change

The planning proposal is seeking to amend Goulburn Mulwaree LEP 2009 Schedule 1 Additional Permitted Uses to enable, with consent, the development of a dwelling house on the northern part of Lot 1, DP 706477.

This is accompanied by additional sub-clauses restricting the minimum lot size to 74 hectares (for the E2 zoned portion), the siting of the dwelling to outside the Range Danger Area, preventing access to and from the Hume Highway and ensuring internal noise levels are attenuated to acceptable levels. The draft Schedule 1 wording is presented below:

# 7 Use of certain land at 159 Rifle Range Road, Goulburn

- (1) This clause applies to land at Rifle Range Road, Goulburn, being part of Lot 1, DP 706477, and identified as Item 7 on the Additional Permitted Uses Map
- (2) Development for the purposes of a dwelling house is permitted with consent with a minimum lot size of 74ha
- (3) Development consent must not be granted under this clause unless the consent authority is satisfied the development
- a. Ensures vehicular access is provided via Rifle Range Road with no access to and from the Hume Highway, and
- b. Includes appropriate measures to ensure the following LAeq levels are not exceeded:
  - i. Internal noise levels in a bedroom of 35 (dB(A) at any time between 10pm and 7am
  - ii. Internal noise levels elsewhere in residential accommodation of 40 dB(A)(not including a garage, kitchen, bedroom or hallway)
- c. Is sited outside of the Range Danger Area of the shooting range

The minimum lot size restriction is not proposed to be achieved through the usual amendment to the Minimum Lot Size Map of the Goulburn Mulwaree LEP but instead through a limitation within the wording of Schedule 1: Additional Permitted Uses. This approach would avoid the creation of a new lot size category (namely 74ha) which would apply to this site only.

Any development on this site requires a development application and will be subject to the relevant policies' within the *Goulburn Mulwaree Development Control Plan*.

#### Addressing Constraints

The primary constraints, particularly relating to the northern land parcel subject to change, are biodiversity and bushfire with the proximity of Goulburn Rifle Range Club Shooting Range and the Hume Highway raising issues of noise and safety. The availability of a suitable access has also been a consideration.

# Bushfire

The site is identified as Category 3 bushfire prone land (medium bushfire risk) as illustrated in Appendix 8 of the planning proposal. The northern land parcel includes significant areas of cleared land ample space and opportunity to include bushfire protection measures, including suitable asset protection zones. These bushfire protection measures will be implemented through a subsequent development application.

# Biodiversity

The site historically comprised White-Box-Yellow Box-Blackley's Red Gum Grassy Woodland and Derived Native Grassland but this has been degraded by pasture improvements. Less than half of

the site now comprises native groundcover with significant cleared areas presenting an opportunity to site a single dwelling house without adversely affecting remnant critically endangered ecological communities as illustrated in appendix 24 of the planning proposal. The site is also sufficiently large to provide for revegetation and clearing offset areas for biodiversity.

A biodiversity assessment will be required at the development application stage with suitable provisions made to avoid adverse impacts on native flora and fauna.

## Proximity to the Goulburn Rifle Club Shooting Range

The northern land parcel adjoins the Goulburn Rifle Club Shooting Range with an established Range Danger Area which encroaches on to a small part of the subject site as illustrated in appendix 21 of the planning proposal. This Range Danger Area includes areas of land together with a specified air space, within which danger to life, limb and property may be expected to occur arising from the initiation of specified ammunition. A dwelling within the Range Danger Area would present concerns around safety of the dwellings` residents. This may be avoided/mitigated through appropriate siting of any proposed dwelling outside of the Range Danger Area (as identified in the considerations of the draft Schedule 1 clause).

#### Noise Impacts

The northern parcel of the subject site is located between the Hume Highway to the east and the shooting range to the west with both creating noise impacts which may adversely affect the amenity of residents of any proposed dwelling. Clause 102 of *State Environmental Planning Policy (Infrastructure)* (the Infrastructure SEPP) sets maximum internal noise levels within residential properties in proximity to the Highway. Clause 5.16 of the Goulburn Mulwaree LEP requires a development application for the erection of a dwelling house on E2 Environmental Conservation zoned land to consider the dwellings compatibility with these adjacent uses.

These policy mechanisms ensure robust consideration of noise impacts on future residential amenity and are imbedded into the draft wording for Schedule 1 of the Goulburn Mulwaree LEP.

The onus is upon the applicant of any subsequent development application to adequately demonstrate development compliance with the LEP and in particular Schedule 1, the Goulburn Mulwaree DCP and the requirements of the Infrastructure SEPP. Measures used to reduce potential noise impacts could include appropriate siting of a dwelling, landscaping/earth mounds or built solutions such as double glazing/insulation.

#### Access

An independent vehicular access is achievable from the northern E2 Environmental Conservation zoned section of the site to Rifle Range Road. This would provide an access separate from the existing primary access to the wider lot from Rosemount Road.

No access is proposed to or from the Hume Highway, further, to ensure highway safety, access is prohibited, an additional sub-clause has been included within draft wording to Schedule 1 which prevents access to and from the Hume Highway.

#### Marulan Truckstop 31

As highlighted above, this element of the planning proposal is seeking to enable the permissibility of a fast food restaurant on Lot 2 and motel and pub with ancillary bottle shop on Lot 3. These additional uses form part of the wider redevelopment plans for the Truckstop site and seeks to provide enhanced service provision for road users.

#### Proposed Change

The planning proposal is seeking to amend Schedule 1 Additional Permitted Uses of the Goulburn Mulwaree LEP to enable, with consent, a motel, pub and bottle shop on Lot 3 and food and drink premises on Lot 2, DP 1053945.

The draft Schedule 1 wording is presented below:

## 5 Use of certain land at 14 George Street, Marulan

- (1) This clause applies to land at 14 George Street, Marulan, being Lot 2, DP 1053945, and identified as Item 5 on the Additional Permitted Uses Map
- (2) Development for the purpose of food and drink premises is permitted with development consent

# 6 Use of certain land at 16 George Street, Marulan

- (1) This clause applies to land at 16 George Street, Marulan, being Lot 3, DP 1053945 and identified as Item 6 on the Additional Permitted Uses Map
- (2) Development for the purpose of motel or hotel accommodation, pub and bottle-shop is permitted with development consent.

The planning proposal is considered to reinforce the function of Marulan as a highway service town (as opposed to its separate function as a local centre), providing roadside services by redeveloping and expanding a site which already serves this purpose. The proposal seeks to maximise the sites' close proximity to the Hume Highway to provide a greater range and higher quality of services to road users than is currently available on the site. This would take advantage of a significant opportunity afforded by the sites' location adjacent the Hume Highway.

The proposal seeks to build upon the high traffic uses which are concentrated on the northbound exit on the Hume Highway which collectively provide a range of highway oriented services for road users. This also serves to keep higher traffic volumes from affecting the central section of George Street which predominantly services the local population (thereby having a lesser impact on the amenity of the main street).

#### Addressing Impacts

The primary constraints relative to this site are Marulan's sewerage capacity, contamination, residential amenity and the potential economic and social impacts of the scheme, including on the viability of Marulan Local Centre.

# Marulan`s Sewerage Capacity

The Marulan sewerage treatment plant is currently at capacity and is unable to accommodate the additional sewerage generated from the proposed uses. The Marulan sewerage treatment plant upgrade is identified in the Council's Operation Plan and is scheduled for completion in 2023.

Any development application to permit construction of the proposed uses would include conditions which prevent disposal of wastewater into the local sewer system until the Marulan sewerage treatment plan has been upgraded and require compliance with an approved Water Cycle Management Plan. These conditions have already been placed on the development consent for stage 1 of the Truckstop redevelopment.

#### Contamination

Ministerial Direction 2.6 Remediation of Contaminated Land requires the planning proposal authority to consider whether the land is contaminated, and the remediation required to make the land suitable for the purpose the land is to be used for.

The site's historic use as a service station indicated potential contamination could be present on site. Subsequent to the initial council report on 6 April 2021 the proponent provided a Preliminary Site Investigation which concluded that contaminants may be present and a Detailed Site Investigation would be required.

The Detailed Site Investigation (DSI) was prepared and submitted in June 2021 which focused on the suitability of Lot 3 for a motel and Lot 2 for food and drink premises.

This suitability was measured against National Environment Protection Measures (NEPM) assessment criteria, specifically against health investigation levels relating to industrial/commercial premises (HIL D).

Upon review of the DSI, Water NSW requested an additional level of assessment which compared the soil test results for Lot 3 (motel and pub) against more sensitive health investigation levels relating to residential with minimal opportunities for soil access (HIL B).

The updated DSI was submitted to Council on 8 October 2021 and forwarded to Water NSW on 12 October 2021. The updated DSI identified some categories of Total Recoverable Hydrocarbons (TRH) present within the soil samples for Lot 3 which exceeded the most sensitive health investigation levels relating to residential with garden/accessible soils (HIL A) (a slightly more sensitive level than requested by Water NSW). The groundwater sampling results identified one sample where copper and zinc exceeded this assessment criteria on Lot 3. These metals are not considered to be directly associated with the service station operations and can be attributed to naturally occurring levels of zinc and copper within groundwater.

The report concluded that the site can be made suitable for the proposed uses on Lots 2 and 3 providing the recommendations outlined are addressed. These recommendations include a Remedial Action Plan for Lot 3 to guide the remediation of the TRH contamination.

The updated DSI was accompanied by the Remedial Action Plan which in summary includes the following remedial actions to address the TRH contamination area:

- Excavate a pit at the sampling location and remove contaminated soil
- Stockpile the soil and physically remove off-site for disposal to an appropriate licensed landfill facility
- Excavated soil must be classified and removed off-site in accordance with the NSW EPA, Waste Classification Guidelines, Part 1:Classifying Waste (2014)

Water NSW confirmed theses plans sufficiently addressed the concerns for the planning proposal stage but further comment and or detail maybe required about the remediation at DA stage.

The updated Detailed Site Investigation report is presented in **Attachment 1** and the Remedial Action Plan is presented in **Attachment 2**.

#### Residential Amenity

The site is industrial zoned land which adjoins or is adjacent to existing residential properties to the north and east with vacant R1 Low Density Residential zoned land to the north. The proximity of the proposed uses could present some potential amenity impacts such as noise and light, particularly the evening uses, on the amenity of existing and future residents.

The Goulburn Mulwaree DCP provides a suite of controls relating to non-residential development (Section 4.2) and a specific chapter (Section 6.2) providing tailored controls for Service Centres. These relate to detailed requirements around visual impacts, acoustic impacts, lighting, traffic arrangements and noise amongst others. Any subsequent development application will be assessed against these chapters and other applicable requirements in the Goulburn Mulwaree DCP.

It must also be noted that the potential impacts on amenity for the proposed uses is considered to be of a lesser extent than other potential land uses currently permissible on this industrial zoned site.

#### Social Impacts

Marulan is identified as an area with multiple indices of deprivation with lower than average educational levels and higher levels of disadvantage. The location and density of licensed premises can influence the health and well-being of people in the surrounding area, particularly disadvantaged areas, such as Marulan.

The proponent submitted a Social Impact Assessment to review both the positive and negative potential social impacts of the proposed uses which are listed in **Table 2** below and accompanied by proposed mitigations:

Table 2: Potential positive and negative social impacts and mitigations

Positive Social Impacts	Negative Social Impacts	Mitigations/how to be addressed
Provision of additional short term accommodation which seeks to address the shortage of fly in, fly out accommodation highlighted in the Council's LSPS.	Reliance on private transport as a result of limited public transport options.	Proposed uses primarily seek to serve highway users with reliance on the private vehicle unavoidable. Marulan is considered a more sustainable and accessible settlement than most in the LGA due to existing bus and train services to nearby urban areas.
Increased opportunities for local residents to interact and enhance community cohesion.	Short term reduction in amenity during construction.	Mitigations to be included within a Construction Management Plan at the development application stage.
Creation of locally accessible jobs with opportunities to shorten commutes.	Low risk of an increase in crime and/or disorder.	Implementation of Crime Prevention through Environmental Design principles, ensuring secure access and dispersal of staff and staff training in the responsible service of alcohol.
Additional food and retail expenditure positively impacting livelihoods of residents and business.	Operational noise impacts.	An acoustic assessment submitted with the development application, application of noise mitigations and a Plan of Management for the sites operation.
	Operational traffic impacts.	Mitigations to be included within a Traffic Impact Assessment at the development application stage

In addition the Report highlights that there is no concentration of crime incidents around the site between July 2019 and June 2020 with crime rates remaining relatively stable.

The saturation of licensed premises within 1km of the site is currently 424.4 per 100,000 (*NSW Liquor LiveData*). The proposed additional use of a pub, when developed and licensed, will initially increase this saturation level due to the addition of a licensed premises within Marulan. This saturation level is expected to reduce alongside the planned increase in Marulan's population over the next 20 years. The population of Marulan is not identified as at relatively higher risk from alcohol related harm. This is especially the case when considered in the context of economic activity and employment created by the proposal.

Overall it is considered that the negative social impacts of the proposed uses can be successfully managed with the implementation of the mitigation measures presented in the Social Impact Assessment and through the application of controls within the Goulburn Mulwaree Development Control Plan.

# ■ Economic Impacts

The Marulan local centre serves as the commercial core of Marulan and is located approximately 600 metres from the Truckstop site.

The local centre includes around 40 operating business including small retail outlets, post office, bakery, café, pharmacy, pub and accommodation providers as well as large depots for trucks and service based industries.

The proponent has submitted an Economic Impact Assessment to accompany the planning proposal which examines both the positive and negative economic impacts of a new motel and pub with ancillary bottle shop on Marulan local centre. The economic benefits of the proposed uses are listed in **Table 3** below:

Table 3: Proposed economic benefits

# **Economic benefits of proposed uses on the Truckstop site**

- \$23m in total economic activity generated by the construction of the proposed development
- 35 job years directly generated by the construction with the creation of approximately 32 jobs through their operation
- \$1.16m per year in total staff remuneration
- Approximately \$265,000 generated in additional local and state revenue through Section 7.12 levies and payroll tax during construction
- Creation of 13,000 additional room nights generated by the motel
- \$6.2 in gross value added
- Estimated revenue of \$1.56m per year from motel rooms
- Estimated \$900,000 per year additional visitor spend

The negative impacts of the proposed uses on the site are centred around the potential competitive impacts on individual business with a focus on accommodation providers and café's/restaurants within the Marulan local centre.

The Economic Impact Assessment did highlight that the planning proposal would likely increase local competition for some related businesses such as accommodation providers, restaurants and pubs.

It should be noted that competitive impacts arise from most commercial developments and planning only considers such impacts as far as they relate to the overall viability of existing service centres. The role of this planning proposal is to examine the potential impacts of the proposed uses on the overall viability of Marulan local centre.

Whilst some adverse competitive impacts maybe experienced by some related businesses in the local centre, others are likely to experience higher levels of footfall from additional visitor numbers and greater associated levels of spend in the local area. Overall the limited scope of the proposed uses is not considered to result in an adverse impact on the Marulan local centre's viability.

The planned increase in the residential population of Marulan over the next 20+ years, as presented in the *Urban and Fringe Housing Strategy*, will also lead to a greater number of patrons using the services of the local centre. This is expected to further off-set potential adverse competitive impacts on local businesses and further enhance the viability and vitality of Marulan local centre.

It is important to highlight that the southern part of Marulan which is located within close proximity to the highway junction is more focused on serving highway traffic than the local centre further to the north. The local centre tends to be more focused on providing services for the permanent resident population. Therefore these areas effectively serve different markets but also present opportunities for cross-over trade.

## Consultation and Submissions made in accordance with Act or Regulations

### **Public Exhibition**

The gateway determination included a requirement to exhibit the planning proposal for a minimum period of 28 days and consultation with the following agencies:

- NSW Rural Fire Service
- Water NSW
- Transport for NSW
- Department of Planning, Industry and Environment (Biodiversity and Conservation)

The public exhibition ran for 29 days between 6 September 2021 and 5 October 2021 with a total of five (5) formal submissions received from the public, all of which related to the Marulan Truckstop element of the planning proposal. No public submissions were received relating to 159 Rifle Range Road.

The public exhibition included a:

- notice on the Council website with documents available to view and download;
- notice on the NSW Planning Portal with documents available to view and download;
- notice in the Goulburn Post on 1, 8, 15, 22, 29 September 2021;
- notification email to Marulan Chamber of Commerce; and
- notification letter to adjoining and adjacent landowners.

# **Agency Referrals**

Agency referrals were received from NSW Rural Fire Service, Water NSW, Transport for NSW and the Biodiversity and Conservation division of Department of Planning, Industry and Environment.

#### Water NSW

The Water NSW exhibition response received on 29 September 2021 raised no objections to proposed amendments relating to 159 Rifle Range Road and identified sewerage management and land contamination risks as their main concerns for the Marulan Truckstop.

Water NSW highlight the importance of sewer connectivity for later developments to deliver a neutral or beneficial effect on water quality and believe this issue can be dealt with through the development application phase. This will primarily be achieved through the submission and approval of a Water Cycle Management Plan and a condition preventing the disposal of waste water in the local sewer system until the Marulan Sewerage treatment plant upgrade has been complete. Water NSW raised no objections with this approach.

The issue of potential contamination of the site has been addressed through the submitted Preliminary Site Investigation, the updated Detailed Site Investigation which included assessment of samples against a more sensitive health investigation level and the Remedial Action Plan. After reviewing the revised DSI and the Remedial Action Plan Water NSW consider the documents had sufficiently addressed their concerns for the planning proposal stage but further comment or detail may be required about the remediation plan at the DA stage.

The response reinforced that any future development of the site will need to have a neutral or beneficial effect on water quality and meet or exceed the standards in Water NSW Current Recommended Practices.

Department of Planning, Industry & Environment- Biodiversity & Conservation Division

The Biodiversity & Conservation Division of Department of Planning, Industry & Environment response received on 21 September 2021 raised no objections to the planning proposal.

In relation to the Rifle Range Road site, the response supported the establishment of the minimum lot size restriction of 74ha to minimise impacts to critically endangered ecological communities.

The referral also recommended the dwelling building envelope and bushfire asset protection zones be located within cleared areas of the site to avoid a future development application exceeding the threshold for the Biodiversity offsets scheme. The extensive area of the site and volume of cleared vegetation enable a dwelling to be sited away from ecologically sensitive parts of the site. The exact location of any proposed dwelling will be addressed in detail through a subsequent development application.

#### NSW Rural Fire Service

The NSW Rural Fire Service exhibition response received on 8 September 2021 raised no objections to the planning proposal.

# Transport for NSW

The Transport for NSW exhibition response received on 3 September 2021 raised no objections to the planning proposal on the proviso the requirements stipulated in their pre-exhibition response are adequately addressed.

The Transport for NSW pre exhibition response received on 2 August 2021 stipulated no objection to the provisions relating to 159 Rifle Range Road subject to access to and from the Hume Highway being prevented and noise levels identified in the Infrastructure SEPP being satisfied.

These requirements have been addresses through additional subclauses in the draft wording of Schedule 1 of the Goulburn Mulwaree LEP and were subject to this public exhibition.

In relation to the Marulan Truckstop, the pre-exhibition response stipulated that a development application (DA) for the proposed uses must be accompanied by a Traffic Impact Study. This study must include an assessment on the suitability of retention of the current access across the Hume Highway median. It is noted that any future DA for this area would be referred to Transport for NSW under the Infrastructure SEPP.

A copy of all the agency referral responses throughout the planning proposal process are presented in **Attachment 3.** 

#### Public Submissions

No public submissions were received relating to 159 Rifle Range Road.

Five public submissions were received objecting to the additional permitted uses sought for the Marulan Truckstop site.

#### Summary of responses to Marulan Truckstop

Five (5) formal public submissions were received during the exhibition period including four local residents and a local business owner. All submissions were objections to the proposed uses sought through this planning proposal and a number related to issues which are more appropriately addressed through a DA. Full submissions are available in **Attachment 4**.

Tables 4 to 8 below provide a summary of the five submissions for the Marulan Truckstop.

Table 4: Submission summary and response Donna Ryall

Submitter	Address	Submission date	
1. Donna Ryall	15 George Street, Marulan	10 September 2021	
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#### **Summary of Submission**

- Concerns raised regarding the driveway location of the proposed uses due to increased traffic resulting in noise and headlights shining into front windows of residential properties opposite
- Concerns over the provision of adequate on-site parking to avoid the impacts of on-street parking on George Street
- Existing and additional litter/rubbish generated by the site blowing into residential gardens. High fences
  proposed to be erected around the fast food site and a request for an increase in the front fence height
  from the current 1.2m to mitigate this impact and ensure privacy
- Questions raised over proposed hours of operation of the pub and bottle shop (licensed premises).
- Statement made that the area is zoned residential, not industrial

#### Council's Response

The preparation and assessment of planning proposals is dictated by the following legislation, regulation and guidance:

- Environmental Planning and Assessment Act 1979
- Environmental Planning and Assessment Regulations 2000,
- Local Environmental Plans: A guide to preparing Local Environmental Plans, and
- Planning Proposal: A Guide to preparing planning proposals

A guide to preparing planning proposals` stipulates a planning proposal:

` Only relates to an LEP amendment. It is not a development application nor does it consider specific detailed matters that should form part of a development application.`

A planning proposal is therefore not able to address detailed considerations such as the location of driveways, the provision of on-site parking, waste management arrangements, boundary fencing and hours of operation. These are all factors which require consideration at the development application stage.

A development application will also consider the potential noise impacts of the proposed uses with mitigations sought to reduce a schemes impacts on nearby residential properties. This will however be considered in the context of the existing industrial zoning of the site, its existing operation as a Truckstop and the proximity and existing impacts from the nearby Hume Highway.

Any request by the submitter for an adjustment to their fence height which exceeds the 1.2m height permissible as Exempt Development should be submitted as a development application.

The submitter's property is zoned R1 General Residential directly opposite the subject site which is zoned IN1 General Industrial- illustrated in **Figure 3** of this council report

Table 5: Submission summary and response Julie Graham

Submit	ter	Address	Submission date
Julie Graham 26 Station Street, Marulan		5 October 2021	
Summary of Submission			

- Impact of the additional noise generated by the motel and pub, particularly at night, both from the venue and patrons travelling to and from the venue with a resulting long term impact on the community.
- Rooftop bar is something one would expect in a more densely populated community.
- An additional venue for the sale/consumption of alcohol on top of the two existing venues is considered a disproportionate number for a village location.
- The applicant showcasing a `hoarders` home in the heritage conservation area is offensive, particularly when the local community has contributed so much to retaining Marulan`s beautiful buildings. A series photos are provided illustrating examples of historic Marulan buildings.
- Goulburn to Marulan train and bus services are limited and not well patronised with 30-45 minute car ride to Goulburn, Moss Vale and Mittagong.

- The current volume of litter in the local area and its potential increase as a result of this proposal.
- Suggestion that renewable energy technologies be integrated with the development.
- Reference to Marulan being ranked in the bottom 40% of all localities in the Index of Economic Resources through 2016

#### Council's Response

As identified in the response above (submitter 1), consideration of the range of potential impacts from a proposed development and suitable mitigations will be considered at the development application stage.

The proponent submitted indicative plans and illustrations with their planning proposal submission which included a roof top bar to the pub. These plans only seek to illustrate how a potential scheme could be accommodated on site and represent the early concept stages of a development proposal. Design and siting considerations and the indicative plans do not form part of the determination of this planning proposal. Formal plans and relevant technical studies must be submitted with a development application upon which a determination will be made.

The number of licensed premises and the potential impacts on community well-being has been assessed through the Social Impact Assessment submitted with the planning proposal. The site is considered to be at low risk from an increase in levels of crime in an area with very low crime rates.

The Social Impact Assessment also examined community vulnerability to alcohol. It concluded that Marulan was not at relatively higher risk of alcohol related harm than the rest of NSW. Community vulnerability to alcohol related harm is considered to be low in the context of the additional economic activity and employment proposed.

The number of liquor licenses and associated licensing conditions are a function of Liquor and Gaming NSW.

The council prepared the contents of the planning proposal subject to exhibition and provided any photographs included within it. Reference to the 'hoarders' home' relates to Figure 6 of the planning proposal at 42 George Street. This property was illustrated in the planning proposal to identify the heritage item which stands in closest proximity to the site. The photograph selection is in no way seeking to diminish the contribution historic buildings make to the character of Marulan or their importance to the local community.

Marulan benefits from bus and train services to local service centres. Whilst they are relatively limited in their frequency their availability contributes to a more sustainable settlement and a wider range of transport options than most other areas in the LGA.

Notwithstanding, the proposed uses of a fast food restaurant, motel and pub with ancillary bottle shop directly relate to the operation of the site as an existing highway service station. A highway service centre primarily serves passing highway users reaching the site by car or truck.

Waste management considerations, including litter will be considered at the development application stage.

Energy efficiency measures are prescribed through Part J of the Building Code of Australia and assessed at the DA stage.

The Social Impact Assessment has referred to a number of datasets, including socio-economic indices for areas (SEIFA) provided by the Australian Bureau of Statistics (ABS) to provide an overview of the social and economic well-being of Marulan. This provides the background information to assess potential impacts of the proposal on the community. This is objective, publicly available data is not intended to offend. The 2016 Census is the most definitive dataset available until the 2021 Census data is released.

Table 6: Submission summary and response G. Spicer & S. Atkinson

Submitter	Address	Submission date
3. Gary Spicer & Samantha Atkinson	17 George Street, Marulan	5 October 2021

# **Summary of Submission**

- Proposal at 16 George Street (motel and pub) will not benefit the area as there are already two venues for purchasing alcohol in relative close proximity and Marulan is not big enough to warrant another.
- There are already a number of accommodation providers on George Street which always have vacancies.
- There are already a number of fast food drive through options in the local area
- Concerns over additional traffic and noise generated by the proposed uses, particularly affecting the front of residential properties.
- Concerns over the impact on property prices
- The location is inappropriate

# Council's Response

The commercial viability of the proposed uses is a matter for the proponent. Marulan is located on the Hume Highway and provides a suitable location for roadside services which is reflected in the number of fast food drive thru options and accommodation providers in the area, largely supported by users of the highway.

Increasing the choice of potential service providers for road users is only one benefit of the planning proposal. Additional local employment opportunities, increased economic activity and enhancement of an existing under-utilised truckstop are also benefits accrued from the proposed additional uses on this site.

The planning system does not take into consideration the impact of development on property prices. Property prices are affected by a wide range of variables, most of which stand outside the scope planning.

As identified in the response above (submitter 1), consideration of the range of potential impacts from a proposed development and suitable mitigations will be considered at the development application stage.

The subject site already serves as a Truckstop. Its location directly off the Hume Highway is considered a suitable and logical place to further enhance and support this existing use and provide greater choice to roadside users.

Table 7: Submission summary & response Jos Roberts

Submitter	Address	Submission date
4. Jos Roberts	Not stated	5 October 2021
Summary of Poonance		

# Summary of Response

- Personal wishes and benefits should not influence the overall considerations
- Regulations should ensure a result which is good for Marulan with consideration for the long term and not just quick returns
- Proposal will lead to two town centres and result in the hollowing out of the town centre, likely followed by other local spot rezoning's
- Proposal will create a disincentive for investment and result in a less commercially attractive town/retail centre
- Residential areas are growing and traffic on the Hume highway is increasing so shopping and employment in a vibrant centre is to be encouraged
- Concern the proposal will stifle existing offerings.
- Proposal will have long term negative effects on Marulan as a whole and does not contribute to addressing the current incoherent planning in the area.
- Council must consider what is best for the town in the longer term
- Proposal not supported as it seeks to amend regulation to suit this site but not the whole of Marulan.

Council's Response

The purpose of the planning proposal process is to ensure adequate justification and strategic merit of a proposed change to the LEP. The benefits of a scheme contribute to this justification.

The range of benefits of the proposed uses are identified in this council report. A number of these benefits are considered to lead to long term benefits to the Marulan local area including additional local employment opportunities, increased economic activity and the physical enhancement of an underutilised site.

The Marulan local centre enables an extensive range of permissible uses including:

- Commercial uses (broad definition, highly inclusive)
- Community facilities
- Educational establishments
- Entertainment facilities
- Tourist and visitor accommodation

This proposal relates to enabling the permissibility of the specific uses of a motel, pub with ancillary bottle shop and fast food drive thru on this site only. These uses directly relate to and support the services of the existing Truckstop and serve users of the Hume Highway. The site is not able to provide for the same range or concentration of permissible uses as Marulan local centre, thereby ensuring the primacy of the local centre.

The Economic Impact Assessment identifies there may be some competitive impacts on some related local businesses but the overall viability of Marulan local centre would not be adversely affected. The proposed uses, located adjacent the Hume Highway, are tailored to serve highway users whereas the local centre primarily serve the needs of the local resident population. In addition, any competitive impacts are expected to be off-set by the planned increase in Marulan's population and the greater number of patrons using the services of the local centre.

Table 8: Submission summary & response Lee Environmental Planning on behalf of Ken McCourt

Submitter	Address	Submission date
5. Lee Environmental Planning on behalf of Ken McCourt	Landowner of Terminus Hotel, George Street, Marulan	2 October 2021
Summary of Response		

- Public engagement process has been unsuccessful as demonstrated by the large proportion of the
  affected community being unaware of the proposed changes. Council may not have satisfied its
  obligations to the community which could call into doubt the procedural fairness of the process.
- Proposal is an opportunistic spot rezoning aimed at adding market value to the land that the proponent believes will be profitable, but this does not necessarily translate into solid reason for a planning proposal.
- The current land use zoning in the Goulburn Mulwaree LEP reflects Marulan's position as an important service centre along the Hume Highway and a local centre serving the local population. This makes the spot rezoning approach somewhat confusing.
- Planning proposal not linked to any strategic study or report and lacks strategic merit.
- Current IN1 General Industrial zoning for the site enables a wide range of land uses that can contribute
  in the long term to the Marulan economy and community and no compelling case has been presented
  as to why the current zoning is deficient.
- The Marulan local centre (B2 zoned land) provides the building blocks for a vibrant and successful town with existing business which can consolidate and expand and sufficient zoned land for new opportunities. Unaware of a case presented that insufficient commercial land is available or current B2 zoned land is unsuitable for the needs of the area.
- The support for the dislocation of the motel, pub and bottle shop, which are key town centre uses, outside the town centre is a failure of strategic planning.
- Request for Council to pause the planning proposal in favour of a more comprehensive and collaborative strategic planning exercise for Marulan.
- The generation of positive economic numbers is not surprising but such potential benefits should not be stripped out of the town centre as this approach stands at odds with the long term strategic planning for Marulan.
- Site suitability is questionable when the potential negative impacts on the town centre are considered.
- The social impact assessment is unconvincing. The greatest positive social impact accrues through a

strong cohesive town centre which is being undermined by this planning proposal.

• Overall the Planning Proposal lacks strategic merit and should not proceed, particularly without first being subject to meaningful public scrutiny and comment.

# Council's Response

Public engagement requirements for planning proposals are set out in legislation and guidance and required to be undertaken in accordance with the requirements of the Gateway determination. As highlighted in the Council report the public exhibition ran for more than the required timescale and included the following:

- A notice on the Council website with documents available to view and download
- A notice on the NSW Planning Portal with documents available to view and download
- A notice in the Goulburn Post on 1, 8, 15, 22, 29 September 2021
- A direct notification to Marulan Chamber of Commerce
- A direct notification to adjacent landowners

Council has exceeded its regulatory requirements in terms of public engagement, met the conditions of the Gateway determination and satisfied its legal obligations.

A planning proposal can be submitted by anyone and Council has a legal obligation to assess any given proposal's merits. The reasons for a change in planning controls is often instigated by a profit motive. A proponents motivations to increase the value of their land is not sufficient justification for a planning proposal. However there are number of benefits of the proposal which extend beyond increased land value and serve to justify the proposed uses on this site.

The site's location in relation to a precinct largely dedicated to highway service functions is also a key consideration in this proposal.

The proposed uses on this site are not explicitly identified in a strategic study but the planning proposal is consistent with required strategic documents,, SEPP's and Ministerial Directions as outlined in this report and the planning proposal. In addition, Department of Planning, Industry and Environment, through the gateway determination considered the proposal to have some strategic merit to continue in the process. There are no outstanding objections from agencies engaged in the process.

The contribution industrial zoned land makes to the Marulan economy is recognised. However Marulan has approximately 291 hectares of vacant industrial zoned land. The proposed additional permitted uses on Lot 3 would reduce the overall available industrial land by approximately 0.18%. This reduction would not reduce the long term contribution industry makes to Marulan's economy.

The proposed additional permitted uses do not seek to replace the Marulan local centre as the focus for service provision to the local resident population. The range of permissible uses proposed directly relate to providing supporting services for the existing Truckstop use and users of the Hume Highway. These areas essentially function as different markets with the Truckstop serving highway users and the Local Centre serving local residents. The range of permissible uses on the Truckstop are significantly more commercially limited than the range of uses permissible in Marulan local centre, ensuring the primacy of the local centre for service provision for local residents.

It is recognised that Marulan local centre has adequate commercial land and B2 zoned land to accommodate a fast food drive thru, motel and pub. However, the relocation of these uses from the Truckstop site to the local centre would uncouple the operational use of the service station with the ancillary and supporting uses of motel, pub and drive thru restaurant and dislocate their highway supporting function away from direct access to the Hume Highway.

The planning proposal and this council report highlight the economic benefits of the proposal. These benefits arise from the proposed uses supporting the existing Truckstop and the sites proximity to the Hume Highway. The proposed uses and the benefits they bring are specific to this site and are not considered transferable to the local centre.

The site is considered suitable for the proposed uses due to its proximity to the Hume Highway, its ability to support the existing Truckstop business, alongside the benefits of the scheme and minimal impacts on the viability of Marulan local centre. No evidence has been presented which demonstrates a long term impact on the viability of Marulan local centre or significant adverse impacts on community well-being and social cohesion as a result of this planning proposal.

# Addressing Marulan Truckstop public exhibition comments

A planning proposal is not able to address detailed considerations around the siting and design of a scheme nor seek to resolve in detail how potential amenity impacts will be addressed. These detailed considerations would form part of the determination of a subsequent development application. A guide to preparing planning proposals` stipulates a planning proposal:

"Only relates to an LEP amendment. It is not a development application nor does it consider specific detailed matters that should form part of a development application."

It is the role of the planning proposal to identify relevant environmental, social, economic and other site-specific considerations and to establish whether in principle, adverse impacts can be mitigated and/or justified by the benefits and strategic merit of the proposal.

## Design, siting and amenity

A number of the issues raised by the four local residents relate to detailed considerations which should be addressed at the development application stage. These include additional traffic generation which will be examined through a Traffic Impact Assessment (as per Transport for NSW advice), parking provision and boundary fencing as outlined in submitted DA plans and noise implications arising from the final scheme identified and mitigated through an acoustic assessment.

These factors will be considered in the context of the existing industrial zoning of the site, its existing operation as a Truckstop and the proximity and existing impacts from the nearby Hume Highway. All potential impacts will be considered against the requirements of the Goulburn Mulwaree DCP at the development application stage.

Concerns raised over the management of waste and particularly litter from the proposed uses will be addressed through a Waste Management Plan submitted with a subsequent development application.

Hours of operation of the proposed pub/bottle shop have not been established. These would be set out as a condition of a subsequent development application. Licensing hours for the service of alcohol with be determined through a liquor license issued by NSW Liquor and Gaming.

The planning system does not take into consideration the impact of development on property prices. Property prices are affected by a wide range of variables, most of which stand outside the scope planning.

Other issues raised focus on the potential impact the proposed uses may have on the vibrancy and vitality of Marulan local centre and businesses operating with it and concerns the proposal would not lead to long term benefits for Marulan, these are addressed below.

# Competition & Viability of Marulan Local Centre

Competitive impacts and the effects on the overall viability of Marulan local centre are examined through the Economic Impact Assessment and addressed under `Addressing Impacts` in this report.

Whilst there are likely to be competitive impacts on some related local businesses the overall viability of Marulan local centre is not considered to be adversely affected as a result of the proposal. Any competitive impacts are expected to be off-set by the planned increase in Marulan's residential population and the greater number of patrons using the services of the local centre.

These are further off-set by the focus of the proposed uses to serve users of the Hume Highway.

No evidence has been presented which demonstrates a long term, impact on the overall viability of the Marulan local centre.

# Benefits of the proposed uses

The potential benefits of the proposed additional uses are listed in **Table 2** and **Table 3** of this report. Some of these benefits are short term and/or site specific such as construction employment and revenue generation. However a number of benefits are considered to lead to long term benefits to the Marulan local area including additional local jobs, additional visitor spend, and the physical enhancement of an under-utilised site.

# Public Engagement Process

The preparation, assessment and public consultation of planning proposals is dictated by the following legislation, regulation and guidance:

- Environmental Planning and Assessment Act 1979
- Environmental Planning and Assessment Regulations 2000, and
- Local Environmental Plans- A guide to preparing local environmental plans
- Planning Proposal: A guide to preparing planning proposals

These documents require community consultation to be undertaken in accordance with the requirements of the Gateway determination. The gateway determination stipulates a public exhibition be undertaken for a minimum of 28 days and be made publicly available in accordance with section 6.6.2 of A guide to preparing local environmental plans. This guide states the following:

Public exhibition of the planning proposal is generally undertaken in the following manner:

- Notification in a newspaper that circulates in the area affected by the planning proposal Notification on the website of the PPA (Planning Proposal Authority)
- Notification in writing to affected and adjoining landowners, unless the planning authority is
  of the opinion that the number of landowners makes it impractical to notify them.

As noted above the public exhibition for this planning proposal ran for 29 days with the following undertaken in accordance with the regulatory requirements:

- A notice on the Council website with documents available to view and download
- A notice on the NSW Planning Portal with documents available to view and download
- A notice in the Goulburn Post on 1, 8, 15, 22, 29 September 2021
- A direct notification to Marulan Chamber of Commerce
- A direct notification to adjacent landowners

In addition late submissions were accepted and included within this report up to 28 October 2021 with the public and proponent able to address councillors directly through the 2 November 2021 Council meeting.

The Council has exceeded it regulatory requirements in terms of public engagement on the planning proposal and satisfied its legal obligations. Further community engagement will be undertaken as part of any subsequent Development Application.

#### Strategic Merit of Proposal

The strategic merit of a planning proposal, in large part, relates to the degree to which the proposed amendments are consistent with the objectives and actions within the following:

- South East and Tablelands Regional Plan;
- The Tablelands Regional Community Strategic Plan:
- Goulburn Mulwaree Local Strategic Planning Statement;
- Goulburn Mulwaree Urban and Fringe Housing Strategy;
- State Environmental Planning Policy; and
- Ministerial S.9.1 Directions.

The planning proposal has thoroughly detailed the degree of consistency of the proposal to the objectives and actions with these strategic documents, state policies and Ministerial Directions and these are summarised, as they relate to the Truckstop, in **Table 9**.

Table 9: Applicable strategic documents, State Environmental Planning Policy (SEPP) and s9.1 Ministerial Directions

Applicable Strategic Documents, State Environmental Planning Policy (SEPP) and s9.1 Ministerial Directions	Consistency
South East and Tablelands Regional Plan	Consistent
The Tablelands Regional Community Strategic Plan	Consistent
Goulburn Mulwaree Local Strategic Planning Statement	Consistent
Goulburn Mulwaree Urban and Fringe Housing Strategy	Consistent
Sydney Drinking Water Catchment SEPP	Consistent
SEPP 55 Remediation of land	Consistent
Infrastructure SEPP	Consistent
Direction 1.1 Business and Industrial Zones	Consistent
Direction 2.3 Heritage Conservation	Consistent
Direction 2.6- Remediation of Contaminated Land	Consistent
Direction 3.4- Integrating Land Use and Transport	Consistent
Direction 4.3- Flood Prone Land	Consistent
Direction 5.2- Sydney Drinking Water Catchment	Consistent
Direction 5.10- Implementation of Regional Plans	Consistent
Direction 6.1- Approval and Referral Requirements	Consistent
Direction 6.3- Site Specific Provisions	Consistent

In addition to Council's assessment, it is the role of the gateway determination assessment by the State to ensure there is sufficient justification for a proposal and to stop planning proposals which lack strategic merit early in the process. This planning proposal has thoroughly assessed the consistency of the planning proposal against the above listed strategic documents, policies and directions. In addition the planning proposal was granted its gateway determination in July 2021 with no indication from the Department of Planning, Industry and Environment of a lack of consistency with related strategic objectives and actions.

No information has been presented which provides detail that the proposed uses are not consistent with the above listed documents.

 Current zoning, availability of commercial land in Marulan, dislocation of Town Centre uses and site suitability

This planning proposal does not propose to change the current IN1 General Industrial zoning of the site but to include the additional permissibility of a fast food drive thru, motel and pub with ancillary bottle shop on the existing Marulan Truckstop site.

The existing Truckstop operation is sited on Lot 2 and isn't available for industrial development. Lot 3 is vacant with only a derelict residential structure on site. The suitability of Lot 3 for industrial development is questionable. The lot is narrow, 0.5 hectares in size and is located between the existing Truckstop and residential development. The limited size of the lot combined with its location adjoining and adjacent to residential properties lends itself more to the proposed uses than those permissible in the industrial zone.

These uses seek to directly support the redevelopment and enhancement of service provision for an existing business in close proximity to the Hume Highway. The range of uses permissible is specific and limited to those which have a supporting function to the operation of the Truckstop and the Hume Highway. The planning proposal does not enable the range of commercial uses permissible in the B2 zoned Marulan local centre, thereby ensuring the primacy and focus of the local centre for commercial activity and investment.

The proposed uses of a drive thru, motel and pub are considered uses which are most often located with a local centre. The Marulan local centre has sufficient zoned land for a motel, pub and fast food restaurant. However, the relocation of these proposed services/uses from the Truckstop site to the local centre would uncouple the operational use of the service station with the ancillary and supporting uses of a motel, pub and drive-thru restaurant and the proximity to the highway. This would have the effect of:

- Not taking full advantage of the sites proximity to the Hume Highway
- Preventing users of the Truckstop and Hume Highway benefiting from direct access to these supporting services
- Would not achieve the objectives of the planning proposal
- Additional off-site provision unlikely to be developed by proponent
- Site likely to remain underutilised

It is also noted that the proposed uses, particularly a motel, seek to serve predominately the needs of highway users with a particular focus on providing short term accommodation for fly in fly out workers. The dislocation of this use to the local centre would likely result in significant additional heavy vehicles traveling up the main thoroughfare of George Street with little opportunity to park their vehicles other than on the street. Highway safety and parking along George Street has already be identified as concern of local residents.

The planning proposal does not seek to provide a compelling case that the current zoning is deficient or require demonstration that other sites zoned B2 are more suitable for the proposal. The Council is required to determine the suitability of the site for the proposed uses and the related strategic merit of the proposed amendment before them. Notwithstanding, Marulan has extensive levels of unoccupied industrial zoned land, providing opportunities for industrial development in more suitable locations, which stand a greater distance from residential properties.

The site is considered suitable for the proposed uses due to its proximity to the Hume Highway its ability to support an existing Truckstop alongside the benefits of the scheme and the minimal impacts on the viability of Marulan local centre. No evidence has been presented which demonstrates a long term impact on the viability of Marulan local centre or significant adverse impacts on community well-being and social cohesion as a result of this planning proposal.

Support for the proposed uses in this location is not a failure of strategic planning but is a flexible response to the needs of a local landowner for the enhancement of an existing business which will generate economic activity and provide local employment.

# **Internal Consultation**

Council's Communication & Business Development Officer reviewed the proposal and their comments are summarised below:

- No negative impacts identified that haven't already been addressed. Potential impacts regarding noise, light and construction will be addressed through development applications and these are likely to generate community submissions;
- Proposal would lead to an improved use of an underutilised site which stands at a key entry point to Marulan, in close proximity to the highway;
- Very supportive of the creation of construction and operation roles and the \$900,000 additional visitor spend estimated to be generated. This is considered to have a positive effect on Marulan;

- Concurrence with the proponents consideration of social impacts on the community of Marulan, and
- Likely competitive impacts on other local businesses is noted but it is considered the
  proposal will attract the vast majority of its customers from the highway and this will have
  associated benefits for Marulan as identified in the proponents Economic Impact
  Assessment.

#### Conclusion

In conclusion the planning proposal presents proposed changes to the Goulburn Mulwaree LEP Schedule 1 (Additional Permitted Uses) for two different sites. This report recommends proceeding with the making of the LEP amendment for each site as follows:

## 159 Rifle Range Road

The proposed permissibility of a dwelling through an addition to Schedule 1 Additional Permitted uses of the Goulburn Mulwaree LEP on the northern parcel of 159 Rifle Range Road would rectify the current zoning anomaly and address the related action in the *Urban and Fringe Housing Strategy*. The Minimum lot size restriction would ensure no further subdivision of the site and the highway access restriction would ensure highway safety. The large site area at 74.5ha combined with extensive areas of non-native vegetation enables the siting of a dwelling which is able to:

- Avoid adverse impacts on biodiversity
- Accommodate bushfire protection measures
- Accommodate on-site effluent management systems, and
- Be sited away from dangers posed by the adjacent shooting range.

# Marulan Truckstop

The proposed additional permissibility within Schedule 1 of the Goulburn Mulwaree LEP for a fast food restaurant, motel and pub with ancillary bottle shop for the Marulan Truckstop site will facilitate the redevelopment of an underutilised existing service station site in close proximity to the Hume Highway.

This proximity to the highway creates a suitable location for these supporting uses and potential amenity, traffic and parking impacts can be adequately addressed at the development application stage.

Concerns relating to Marulan sewer capacity and contamination have been adequately addressed. Whilst some competitive impacts are expected as a result of the proposed uses this is not considered to result in adverse impacts on the overall viability of Marulan local centre. The proposed uses are not considered to result in adverse impacts on the health and well-being of the community. The proposed uses will create jobs locally, generate economic activity and meet the identified shortfall in short term accommodation within the local government area.

#### Recommendation

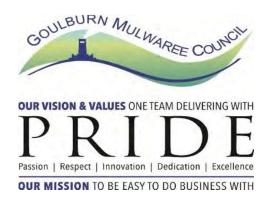
That the planning proposal for additions to Schedule 1 Additional Permitted uses of the Goulburn Mulwaree LEP 2009 be endorsed by Council and proceed to finalisation.

# FINANCIAL IMPLICATIONS

There are no known financial implications.

# **LEGAL IMPLICATIONS**

There are no known legal implications.



# **ATTACHMENTS**

# **ENCLOSURES**

# **Ordinary Council Meeting**

2 November 2021

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Attachment 4

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Attachment 1: Targeted Detailed Site Investigation

# **Targeted Detailed Site Investigation**

14-16 George Street, Marulan NSW 2579 Lot 2/-/DP1053945 and Lot 3/-/DP1053945

N4806 and N4807

23<sup>rd</sup> September 2021

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Address: 14-16 George Street, Marulan NSW 2579

Report Number: N4806 and N4807



# Report distribution

Targeted Detailed Site Investigation

Address: 14-16 George Street, Marulan NSW 2579 NEO Consulting Report No: N4806 and N4807

Date: 23<sup>rd</sup> September 2021

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Version	Prepared by	Reviewed by	Date issue
FINAL	Luke Breva Environmental Scientist	Nick Caltabiano Project Manager	23 <sup>rd</sup> September 2021
	935	p/lette	
Review			

Report Revision	Details	Report No.	Date	Amended By
1	FINAL Report	N4806 and N4807	23 <sup>rd</sup> September 2021	-
		Issued By:	plate.	

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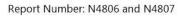
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#### **APPENDICES**

Appendix A – Figures and Site Photographic Log

Appendix B – Laboratory Results Summary Table

Appendix C - Property Report and "Dial Before You Dig" Results

Appendix D - Certificates of Analysis

Appendix E - Targeted ESA Report & PSI

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# **Executive Summary**

NEO Consulting were appointed by DIB Group Pty Ltd (the client) to undertake a Targeted Detailed Site Investigation (DSI) for the property located at 14-16 George Street, Marulan NSW 2579. The entire site consists of three (3) lots, legally identified as Lot 1, 2 and 3 / - / DP1053945. However this DSI is focused on the proposed developments within Lots 2 (Project Number: N4807) and Lots 3 (Project Number: N4806), with consideration given to the service station operations. The entire site has an area of approximately 7.2ha. Lot 2 and 3 have an area of approximately 3.9ha and 0.54ha, respectively. The site is currently zoned as IN1 - General Industrial. Only partial areas of Lots 2 and 3 have been validated.

The proposed development for the site includes:

- 1) The construction of an Industrial Park on Lot 1 (not included in the current assessment);
- 2) The construction of a fast-food outlet including drive-through, delivery and waiting bays, and carpark (Lot 2); and
- 3) The construction of a motel, with associated pool, gazebo, bar and carpark (Lot 3).

This DSI provides an assessment of current or historical potentially contaminating activities that may have impacted the site and will determine if the site is suitable for the proposed developments onsite.

The scope of work undertaken includes:

- · A site inspection to identify potential sources of contamination;
- · Sampling and chemical analysis of soil and groundwater on the site;
- · Historical investigations relating to the site (if any);
- Review of current and historical Certificates of Title:
- Local Council records and planning certificates;
- NSW EPA Priority Sites Register;
- · Dial-Before-You-Dig enquiry for an evaluation into local underground services and assets;
- Review of local geological and hydrogeological information, including an evaluation of the NSW Groundwater registered groundwater bore database;
- Review of Acid Sulfate Soil data maps.

The site investigation was conducted on the 23<sup>rd</sup> May 2021 by a qualified environmental consultant. Soil and groundwater samples were collected and submitted to a NATA accredited laboratory for chemical analysis. Chemical analyses targeted Contaminants of Potential Concern (CoPC), which may have impacted the site during historical or present activities.

NEO Consulting implemented a systematic sampling approach on the proposed development areas. Lot 3 had an approximate area of 5,363sqm, which indicates a minimum 13 sampling locations; and Lot 2 had an approximate

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area of 3,604sqm, which indicates a minimum 9 sampling locations (NSW EPA, *Sampling Design Guidelines*, 1995). A minimum of two (2) soil samples were required from each borehole location, and one (1) groundwater monitoring well was installed on each lot. MW2 was installed on Lot 2, with a drill depth was 10.50m bgl. After purging and commissioning the well, the standing water level was recorded at 8.70m bgl. MW4 was installed on Lot 3 to a maximum depth of 7.5m bgl, with no indications ground water reached.

Additionally, NEO Consulting also installed MW1, located down gradient of the UPSS at the service station to determine the depth to ground water and intercept potential contamination migration. This well was commissioned at 9.00m bgl, with the standing water level recorded at 7.80m bgl.

Soil analytical results for Lot 2 did not exceed the NEPM Assessment Criteria for Commercial/Industrial site for all samples. Soil analytical results for Lot 3 exceeded the NEPM Assessment Criteria Residential A for Health Screening Level HSL-A Vapour Intrusion and Ecological Screening Level ESL (Urban, Residential and Public Open Spaces. The hotspot location was identified as borehole 9 (BH9), with exceedance in the Total Recoverable Hydrocarbon (TRH) fraction:  $>C_{10}-C_{16}$  and  $>C_{10}-C_{16}$  minus Naphthalene and  $>C_{16}-C_{34}$  for both BH9.1 (collected at 0.5m bgl) and BH9.2 (collected at 1.2m bgl).

This contamination requires remedial action for the site to be made suitable for the proposed development. All other analytical results were below the NEPM Assessment Criteria for Residential A sites for all samples.

Results for groundwater did not show any indications of petroleum-derived contamination, however, Copper and Zinc were slightly elevated above the NEPM Groundwater Investigation Levels. The exceedance of Zinc and Copper within the groundwater are likely to be representative of background concentrations attributed to local geology and are associated with typical shale and sandstone mineralogy. Additionally, the analytical results for groundwater may reflect suspended metal-containing particles. Future analyses should employ a dissolved metals analytical method. Groundwater will require future analyses if the proposed development is amended to include excavation.

Partial areas of Lots 2 and 3 have been validated. Based on this Targeted Detailed Site Investigation, NEO Consulting finds that the site can be made suitable for the proposed developments on both Lot 2 and Lot 3 providing the recommendations within **Section 16** are implemented.

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#### 1. Introduction

#### 1.1 Background

NEO Consulting was appointed to undertake a Detailed Site Investigation (DSI) for the property located at 14-16 George Street, Marulan NSW 2579. The site consits of three (3) lots, legally identified as Lot 1, 2 and 3 / - / DP1053945, with an area of approximately 7.2ha. However, this DSI is focused on Lots 2 and 3, which have an area of approximately 4ha and 0.54ha, respectively. The site is currently zoned as IN1 - General Industrial.

The proposed development for the site includes:

- 1) The construction of an Industrial Park on Lot 1 (not included in the current assessment);
- 2) The construction of a fast-food outlet including drive-through, delivery and waiting bays, and carpark (Lot 2); and
- 3) The construction of a motel, with associated pool, gazebo, bar and carpark (Lot 3).

A site inspection was undertaken on the 23<sup>rd</sup> May 2021 by a qualified environmental consultant. Reporting, photographs and sampling were conducted on this day and with reference to the relevant regulatory criterial (2. Scope of Work). Further information of the inspection is described in 4. Site Condition and regarding the sampling in 11. Sampling and Analysis Plan.

#### 1.2 Objectives

The objective of this DSI report was to provide a detailed assessment of current and/or historical potentially contaminating activities that may have impacted the soils and groundwater at the site and will determine if the site is suitable for the proposed land use.

### 1.3 Regulatory Framework

This DSI has been prepared in general accordance with the following regulatory framework:

- Goulburn Mulwaree Local Environmental Plan 2009;
- Department of Urban Affairs and Planning, NSW Environmental Protection Authority, Managing Land
   Contamination Planning Guidelines SEPP 55 Remediation of Land, 1998;
- National Environment Protection Measures, Schedule B1 Guideline on Investigation Levels for Soil and Groundwater 2013,
- National Environment Protection Measures, Schedule B2 Guideline on Site Characterisation, 2013;
- National Environmental Protection Measures, Schedule B5c Guideline on Ecological Investigation Levels
  for Arsenic, Chromium (III), Copper, DDT, Lead, Naphthalene, Nickel and Zinc, 2013;
- National Environment Protection Measures, Schedule B7 Guideline on Derivation of Health Based Investigation Levels, 2013;

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- National Environment Protection Measures, Appendix 1 The Derivation of HILS for Metals and Inorganics, 2013;
- NSW EPA, Contaminated Land Management, Guidelines for the NSW Site Auditor Scheme, 2017 (3<sup>rd</sup> Edition);
- NSW EPA, Waste Classification Guidelines Part 1: Classifying Waste, 2014;
- NSW EPA, Sampling Design Guidelines, 1995;
- The Contaminated Land Management Act 1997;
- NSW EPA, Guidelines on the Duty to Report Contamination under Contaminated Land Management Act, 1997;
- NSW EPA, Technical Note: Investigation of Service Station Sites, 2014;
- NSW Department of Environment and Conservation, Guidelines for the Assessment and Management of Groundwater Contamination, 2007;
- NSW EPA, Guidelines for Consultants Reporting on Contaminated Sites, 2020;
- · Protection of the Environment and Operation Act 1997;
- Protection of the Environment Operations (Waste) Regulations, 2005;
- SafeWork SNW Code of Practice, How to Safely Remove Asbestos, 2016;
- SafeWork NSW Code of Practice, How to Manage and Control Asbestos in the Workplace, 2016;
- SafeWork NSW, Managing Asbestos in or On Soil, 2014
- State Environment Protection Policy 55 (SEPP 55). Remediation of Land Under the Environmental Planning and Assessment Act, 1998;
- · Work Health and Safety Act, 2011; and
- Work Health and Safety Regulation, 2011.

# 2. Scope of Work

To meet the requirements in Section 1.3 of this report, the following scope of works were included:

- · A site inspection to identify potential sources of contamination on site;
- · A site inspection to identify potential sources of contamination on neighbouring properties;
- Sampling and chemical analysis of soil and groundwater on the site;
- Historical investigations relating to the site (if any);
- Review of current and historical Certificates of Title;
- Local Council records and planning certificates;
- NSW EPA Priority Sites Register;
- Dial-Before-You-Dig enquiry for an evaluation into local underground services and assets;
- Review of local geological and hydrogeological information, including an evaluation of the NSW Groundwater registered groundwater bore database;

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- Review of Acid Sulfate Soil data maps;
- Development of a Conceptual Site Model (CSM) to identify the connections between potential sources of contamination and exposure pathways, human and/or ecological receptors; and
- Recommendations for additional investigations (if any), based on the identified data gaps and findings of this DSI.

## 3. Site Details

Table 1. Site Details

Address	14-16 George Street, Marulan NSW 2579	
Deposited plan	Lot 2 and 3 / - / DP1053945	
Zoning	IN1: General Industrial	
Locality map	Figure 1, Appendix A	
Site Boundary	Figure 2, Appendix A	
Area	4.5ha	

Table 2. Surrounding land-use adjacent to the site

Direction from site	Land-use Land-use		
North Rural vacant land			
East	Rural residential property		
South	Portland Avenue and George Street intersecting		
West	Rural residential property		

## 4. Site Condition

During the site inspection, the following observations were noted (photographs in Appendix A):

#### Lot 2 in 14 George Street Marulan NSW

- · Lot 2 contained a truck stop, an active fuel station and a retail shop;
- The lot was located on the corner of George Street and Portland Avenue, with the entrance and exit points on George Street;
- The fuel station contained two metal canopies;
- · The larger metal canopy sheltered five (5) DSL self-service fuel bowsers;
- The smaller canopy shelters Four (4) ULP, E10 and DSL self-service fuel bowsers;
- A metal shed used as a generator room was observed near the central west portion of the site, fuel oil storage drums were also observed inside the generator room;

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- Oil drums were observed at the rear of the retail shop;
- Seven (7) USTs, one (1) Adblue Above Storage Tank (AST), two (2) LPG Storage Cylinders and six vents were
  observed on site;
- The lot consisted of a mix groundcover including grass, concrete, bitumen, and pavement and was overall flat, with a slight gradient of approximately 5% down towards the south east;
- No visual or aromatic indications of contamination were identified during the inspection;
- · The lot contained two (2) pre-existing wells, NEO installed an additional well during the site inspection.

#### Lot 3 in 16 George Street Marulan NSW

- Lot 3 was an irregular-shaped lot and contained of open grass areas and two wooden sheds with metal roofing;
- Lot 3 contained three (3) unused storage tanks, two (2) old out of service bowsers and a metal shed near the north-east portion;
- · The lot had grass and gravel groundcover;
- No visual or aromatic indications of contamination were identified during the inspection;
- Lot 3 was on an upward gradient to the service station on Lot 2.

The surrounding sites within a 500m radius include residential and commercial properties including Straw Services Australia, Marulan Motor Inn, Alis Motel and some food retails. The closest water body is the water tributary of Marulan Creek and Jaorimin Creek. These water tributaries are located approximately 370m south east of the site and 680m north west of the site respectively.

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# 5. Site History

## 5.1 History of site

**Table 3**. Historical aerial images of the site and surrounding area.

Year	Proprietor(s)
	Lot 2 in DP 1053945 (14 George Street Marulan NSW)
2014-Current	DIB Group Pty Ltd
	Prior: Vol.199, Fol.38
2011-2014	Helen Margaret Millis
	Prior: Vol.13737, Fol.38
1995-2011	Malcolm Edward Biddlecombe, service station propertier
	Prior: Vol.10641, Fol.151
1985-1995	1985-1995 Melhem Ayoub
	Prior: Vol.7303, Fol.127
1968-1985	Kemria Concrete Haulage Pty Ltd
	Prior: Vol.7303, Fol.127
1957-1968	Robert Stanley Shepherd, Haulage Contractor and Kathleen Stella Shepherd
	Prior: Vol.7444, Fol.214
1936-1957	Cecil Stanley Shepherd
	Lot 3 in DP 1053945 (16 George Street, Marulan NSW)
2014-Current	DIB Group Pty Ltd
	Prior: Vol.199, Fol.38
2011-2014	Helen Margaret Millis
	Prior: Vol.13737, Fol.38
1985-2011	Malcolm Edward Biddlecombe, service station proprietor
	Prior: Vol.7303, Fol.127
1968-1985	Kemria Concrete Haulage Pty Ltd
	Prior: Vol.7303, Fol.127
1957-1968	Robert Stanley Shepherd, Haulage Contractor and Kathleen Stella Shepherd
	Prior: Vol.7444, Fol.214
1936-1957	Cecil Stanley Shepherd

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## 5.2 Section 10.7 (2) Planning Certificate

A Section 10.7 Planning Certificate describes how a property may be used and the restrictions on development. The Planning Certificate is issued under Section 149 of the Environmental Planning and Assessment Act 1979. At the time of reporting. A search has been undertaken, results can be found within **Appendix C**.

## 5.3 NSW EPA Priority Sites Register

A search within the NSW EPA contaminated land register was undertaken for the site. No results were found for the site or within 200m of the site.

#### 5.4 Protection of the Environment Operation Act (POEO) Public Register

A search on the POEO public register of licensed and delicensed premises (DECC) was undertaken for the site. No results were found for the site or within 200m of the site.

#### 5.5 SafeWork NSW Hazardous Goods

A search was undertaken with SafeWork NSW for historical dangerous goods stored onsite. However the results have not been received yet.

#### 5.6 Product Spill and Loss History

The visual site inspection did not find evidence of chemical contamination within the site (i.e. chemical staining, unhealthy vegetation).

## 5.7 Dial Before You Dig

A review of assets and services via a Dial-Before-You-Dig request suggests the following assets could be affected or act as an off-site pathway for transportation of contamination: Essential Energy; Jemena Gas Country; NBN Co, NSW Act; and Telstra NSW.

## 6. Environmental Setting

## 6.1 Hydrology

A groundwater bore search was conducted on the 23<sup>rd</sup> May 2021 and it is found that seven (7) (GW022357, GW023891, GW113742 (9m bgl), GW113743 (10m bgl), GW113744, GW113745, GW113756 (11m bgl)) borehole were present within a 500m radius of the site.

The closest registered ground water bore offsite is GW022357, which was installed in 1964 to a depth of 26.5m bgl. Drilling encountered clay and granite, the standing water level was recorded at 18.5m bgl. This well is to the North of the site on an upward gradient.

To the south of the site, other registered bores are located on the BP service station. These wells were drilled to a maximum depth of 11.0m bgl, however ground water level was not recorded.

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#### 6.2 Geology

Data obtained from the Geological Survey of NSW and the Geoscience Australia Stratigraphic Units Database indicate the site to be underlain by sediments comprising residual deposits of unconsolidated clay and fine-grained sands to partially consolidated clay layers. Previous investigations encountered natural Clays to 4.5 m bgl. With granite identified beyond 10m below ground level within nearby bore logs.

#### 6.3 Acid Sulfate Soil

To determine whether there is any possibility for Acid Sulfate Soils to be present at the site, information was reviewed utilising the eSPADE map viewer. The data obtained indicated there was "no known occurrence" of Acid Sulfate Soils at this site or in the immediate vicinity.

## 7. Areas of Environmental Concern

Based on the above information, the potential Areas of Environmental Concern (AEC) and their associated Contaminants of Potential Concern (CoPC) for the site were identified and summarised (**Table 4**).

Table 4. Potential Areas and Contaminants of Concern

Potential Areas of Concern	Potentially Contaminating / Hazardous Activity	CoPCs	Likelihood of Site Impact	Comments
Entire site	Importation of fill material from unknown origin	Metals, TPH, BTEX, PAH, OCP, Asbestos	Low	Based on site observations, the presence of imported fill material is unlikely.
USTs	Storage of petroleum products underground	Heavy Metals, TRH, BTEX and PAH	Moderate	Due to soil properties and unknown condition of storage tank, migration of contaminants is possible.
Self-service area	Dispensing of petroleum products	Heavy Metals, TRH, BTEX and PAH	Low	Due to the sealed groundcover, migration of contaminants is unlikely.

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Potential Areas of Concern	Potentially Contaminating / Hazardous Activity	CoPCs	Likelihood of Site Impact	Comments
Building structures	Hazardous materials	ACM, SMF, ODS, Lead (paint and/or dust), PCBs	Moderate	Based on site observations, it cannot be concluded that any of the hazardous materials mentioned here are present at this location. A HMS is required to identify these contaminants.

Abbreviations: Asbestos Containing Materials (ACM), Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Ozone Depleting Substances (ODS), Polychlorinated biphenyls (PCBs), Polycyclic Aromatic Hydrocarbon (PAH), Total Petroleum Hydrocarbons (TPH), Synthetic Mineral Fibres (SMF), Hazardous Materials Survey (HMS).

## 8. Conceptual Site Model

A CSM was developed to provide an indication of potential risks associated with contamination source and contamination migration pathways, receptors and exposure mechanisms. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation. Here, we consider the connections between the following elements:

- Potential contamination sources and associated CoPCs;
- Potential human receptors that may be impacted by the site contamination are current and future site users
  including occupants to the dwelling/infrastructures onsite, site workers and the general public within the
  immediate vicinity of the site;
- Potential environmental receptors to the site including but not limited to: groundwater and surface water bodies, residual soils at and/or nearby the site;
- Potential exposure pathways; and
- · Whether source-pathway-receptor connections are complete based on current and future suite conditions.

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Table 5. Conceptual Site Model

Potential	Potential	Potential Exposure	Complete	Risk	Justification/ Control
Sources	Receptor	Pathway	connection		Measures
	100				
Contaminated	Site	Dermal contact,	Limited	Low	Direct contact with
soil from	occupants,	inhalation/ingestion	(current)		potentially contaminated
importation of	workers,	of particulates			soils is limited.
uncontrolled fill	general	9	No (Future)	Low	If present, impacted soils are
across the site.	public				likely to be disposed of off-
					site.
Contaminated	Underlying	Leaching and	Limited	Low	Due to existing sealed
soil from	aquifer	migration of	(current)		surfaces, expected shallow
current and/or		contaminants			bedrock, leachability of
historical onsite		through groundwater			CoPCs, migration of CoPCs i
operations.		infiltration.			likely to be limited.
			Limited	Low	If present, contaminated soil
Multiple			(Future)		and/or groundwater is likely
hydrocarbon			(3) 18.0		to be remediated.
spills					
Heavy vehicle					
traffic causing					
soil					
contamination					
(BTEX, TRH,					
Heavy Metals)					
Unassessed	Site	Vapours, dermal	Limited	Medium	Assessment to be
potential	occupants,	contact,	(current)		undertaken within the onsite
structural	workers,	inhalation/ingestion	a-trackes. (Ac 41 (EC 45)		buildings to determine if
dwelling	general	of particulates			there is any potential
<b>J</b>	public	36 ( 1 <b>1</b> 1 2 3 4 2 2 3 2 3 2 3 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 4			contamination.
			No (future)	High	If present, areas will be
					remediated.

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Potential Sources	Potential Receptor	Potential Exposure Pathway	Complete connection	Risk	Justification/ Control Measures
USTs	Site occupants, workers, general public	Dermal contact, inhalation/ingestion of particulates	Limited (current)	Medium	Assessment should be undertaken onsite of USTs. If potential contamination is identified a risk assessment and removal plan to be implemented.

## 9. Data Gaps

The following data gaps have been identified at the site:

· Groundwater flow direction;

#### 10. Assessment Criteria

#### 10.1 Lot 2 Assessment Criteria

The following assessment criteria were adopted for the investigation on Lot 2.

## 10.1.1 NEPM Health Investigation Level D (HIL-D)

HILs are scientific, risk-based guidance levels to be used as in the primary stage of assessing soil contamination to evaluate the potential risks to human health from chronic exposure to contaminants. HILs are applicable to a broad range of metals and organic substances, and generally apply to depths up to 3m below the surface for residential use.

Tier 1 HILs are divided into the following sub-criteria:

- · HIL A residential with garden/accessible soils
- HIL B residential with minimal opportunities for soil access
- HIL C public open space/recreational areas
- HIL D commercial/industrial premises

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Table 6. Health Investigation Levels

Analyte	NEPM 2013 Commercial/Industrial HIL-D, mg/kg
	Metals
Arsenic, As	3,000
Cadmium, Cd	900
Chromium, Cr	3,600
Copper, Cu	240,000
Lead, Pb	1,500
Nickel, Ni	6,000
Zinc, Zn	400,000
Mercury, Hg	730

## 10.1.2 NEPM Health Screening Level D (HSL-D)

HSLs have been developed for selected petroleum compounds and fractions and are used for the assessment of potential risks to human health from chronic inhalation and direct contact pathways of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). HSLs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to depths below surface to >4m.

Tier 1 HSLs are divided into the following sub-criteria:

- HSL A residential with garden/accessible soils
- HSL B residential with minimal opportunities for soil access
- HSL C public open space/recreational areas
- HSL D commercial/industrial premises

Table 7. Health Screening Level for Soil

	NEPM 2013	NEPM 2013	NEPM 2013	NEPM 2013	
	Commercial/Indu	Commercial/Ind	Commercial/Ind	Commercial/Ind	NEPM 2013
	strial HSL-D for	ustrial HSL-D for	ustrial HSL-D for	ustrial HSL-D for	Commercial/Ind
	Vapour Intrusion	Vapour Intrusion	Vapour Intrusion	Vapour Intrusion	ustrial HSL-D for
	0-<1m Sand,	1-<2m Sand,	2-<4m Sand,	4m+ Sand,	direct contact,
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Monocyclic Aromatic Hydrocarbons				
Benzene	3	3	3	3	430

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Toluene	NL	NL	NL	NL	99,000
Ethylbenzene	NL	NL	NL	NL	27,000
Xylenes	230	NL	NL	NL	81,000
-		Polycyclic Aron	natic Hydrocarbons		
Naphthalene	NL	NL	NL	NL	11,000
		Total Recovera	ble Hydrocarbons		'
C6-C10					26,000
C6-C10 -	260	370	630	NL	
BTEX (F1)	260	370	630	NL	
>C10-C16					20,000
>C10-C16 - N	NL	NL	NL	NL	T T
(F2)	IVE	1742	INC	IVE	
>C16-C34		31			27,000
(F3)					27,000
>C34-C40					38,000
(F4)					33,000

Table 8. Health Screening Level for Groundwater

	NEPM 2013	NEPM 2013	NEPM 2013
	Commercial/Industrial	Commercial/Industrial	Commercial/Industrial
	Groundwater HSL-D for	Groundwater HSL-D for	Groundwater HSL-D for
	Vapour Intrusion 2-<4m	Vapour Intrusion 4-<8m	Vapour Intrusion 8m+ Sand,
Analyte	Sand, mg/L	Sand, mg/L	mg/L
Benzene	5	5	5
Toluene	NL	NL	NL
Ethylbenzene	NL	NL	NL
Xylenes	NL	NL	NL
Naphthalene	NL	NL	NL
C6-C10 - BTEX (F1)	6	6	7
>C10-C16 - N (F2)	NL	NL	NL

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#### 10.1.3 NEPM Ecological Investigation Level D (EIL-D)

Ecological investigation levels (EILs) have been developed to assess the risk for the presence of metals and organic substance in a terrestrial ecosystem. EILs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to the top 2m of soil. EILs can be applied for arsenic (As), copper (Cu), chromium III (Cr(III)), dichlorodiphenyltrichloroethane (DDT), naphthalene, nickel (Ni), lead (Pb) and zinc (Zn). The NEPM Soil Quality Guidelines (SQG) for EILs are calculated using the Added Contamination Limit (ACL) to determine the amount of contamination that had to be added to the soil to cause toxicity, including ambient background concentration (ABC).

Table 9. Ecological Investigation Level

Analyte	NEPM 2013 Soil Generic EIL Commercial/Industrial, mg/kg
	Metals
Arsenic, As	160
	Pesticides
DDT	640
	Polycyclic Aromatic Hydrocarbons
Naphthalene	370

#### 10.1.4 NEPM Ecological Screening Level (ESL) – Commercial and Industrial

ESLs have been developed for selected petroleum hydrocarbons (BTEX, benzo(a)pyrene, TRH F1 and F2) in soil, based on fresh contamination. These parameters are applicable to coarse and fine-grained soil and apply from the surface of the soil to 2m below ground level, which corresponds with the root and habitat zone for many species.

Table 10. Ecological Screening Level

	NEPM 2013 Soil ESL Commercial/Industrial for coarse-grained soil,
Analyte	mg/kg
	Monocyclic Aromatic Hydrocarbons
Benzene	75
Toluene	135
Ethylbenzene	165
Xylenes	180
	Polycyclic Aromatic Hydrocarbons
BaPyr (B(a)P)	0.7

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Total Recoverable Hydrocarbons		
C6-C10	215	
>C10-C16	170	
>C16-C34 (F3)	1,700	
>C34-C40 (F4)	3,300	

## 10.1.5 NEPM Management Limits - Commercial and Industrial

Management Limits for petroleum have been developed for prevention of explosive vapour accumulation, prevention of the formation of observable Light Non-Aqueous Phase Liquids (LNAPL) and protection against effects on buried infrastructure. Commercial and Industrial limits have been adopted based on the proposed land use.

Table 11. Management Limits

Analyte	NEPM 2013 Management Limits Commercial/Industrial for coarse- grained soil, mg/kg	
	Total Recoverable Hydrocarbons	
C6-C10	700	
>C10-C16	1,000	
>C16-C34 (F3)	3,500	
>C34-C40 (F4)	10,000	

## 10.1.6 NEPM Guidelines for Asbestos

The assessed soil must not contain Asbestos Containing Materials (ACM) in the excess of 0.01%w/w and surface soil within the site must be free of visible ACM, Asbestos Fines (AF) and Fibrous Asbestos (FA).

## 10.1.7 NEPM Groundwater Investigation Levels (GIL)

Groundwater Investigation Levels (GILs) are the concentration of a contaminant in the groundwater above which further investigation or a response is required. These levels are based on Australian water quality guidelines and drinking water guidelines and are applicable for assessing human health risk and ecological risk (fresh water or marine water) from direct contact within groundwater.

Table 12. Groundwater Investigation Level

Analyte	NEPM 2013 GIL Drinking Water, mg/L	NEPM 2013 GIL Marine Waters, μg/L	NEPM 2013 GIL Fresh Waters, μg/L
	Monocyclic Aromatic Hy	ydrocarbons	
Benzene	0.001	500C	950

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Toluene	0.8	0.70	150
Ethylbenzene	0.3	:#:	(-
Xylenes	0.6	*	350 as o-x; 200 as p-x
	Polycyclic Aromatic Hy	drocarbons	
Naphthalene	3	50C	16
Benzo(a)pyrene	0.00001		<i>a</i>
	Metals		
Arsenic, As	0.01	(+)	24 A(III); 13 As(V)
Cadmium, Cd	0.002	0.7	0.2
Chromium, Cr	0.05	4.4	1
Copper, Cu	2	1.3	1.4
Lead, Pb	0.01	4.4	3.4
Nickel, Ni	0.02	7	11
Zinc, Zn	<u> </u>	15	8
Mercury	0.001	0.1	0.06

#### 10.2 Lot 3 Assessment Criteria

The following soil assessment criteria were adopted for the investigation on Lot 3.

## 10.2.1 NEPM Health Investigation Level A (HIL-A)

HILs are scientific, risk-based guidance levels to be used as in the primary stage of assessing soil contamination to evaluate the potential risks to human health from chronic exposure to contaminants. HILs are applicable to a broad range of metals and organic substances, and generally apply to depths up to 3m below the surface for residential use.

Tier 1 HILs are divided into the following sub-criteria:

- HIL A residential with garden/accessible soils.
- HIL B residential with minimal opportunities for soil access.
- HIL C public open space/recreational areas.
- HIL D commercial/industrial premises.

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Table 13. HIL-A Guidelines for Pesticides, Metals and Polycyclic Aromatic Hydrocarbons

Analyte	NEPM 2013 Residential Soil HIL-A, mg/kg
	Pesticides
НСВ	10
Heptachlor	6
Chlordane	50
Aldrin & Dieldrin	6
Endrin	10
DDT+DDE+DDT	240
Endosulfan	270
Methoxychlor	300
Mirex	10
	Metals
Arsenic, As	100
Cadmium, Cd	20
Chromium, Cr	100
Copper, Cu	6,000
Lead, Pb	300
Nickel, Ni	400
Zinc, Zn	7,400
Mercury, Hg	40
Polycycl	ic Aromatic Hydrocarbons
Carcinogenic PAHs (as BaP TEQ)	3
Total PAH (18)	300

## 10.2.2 NEPM Health Screening Level A (HSL-A)

HSLs have been developed for selected petroleum compounds and fractions and are used for the assessment of potential risks to human health from chronic inhalation and direct contact pathways of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). HSLs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to depths below surface to >4m.

Tier 1 HSLs are divided into the following sub-criteria:

- HSL A residential with garden/accessible soils.
- HSL B residential with minimal opportunities for soil access.

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- HSL C public open space/recreational areas.
- HSL D commercial/industrial premises.

**Table 14.** HSL-A for Benzene Toluene Ethylbenzene and Xylene (BTEX), Naphthalene and Total Recoverable Hydrocarbon Fractions

	NEPM 2013 Residential Soil	NEPM 2013 Residential Soil	NEPM 2013 Residential
Analyte	HSL-A for Vapour Intrusion	HSL-A for Vapour Intrusion	Soil HSL-A for direct
	0-<1m Sand, mg/kg	1-<2m Sand, mg/kg	contact, mg/kg
Benzene	0.5	0.5	100
Toluene	160	220	14,000
Ethylbenzene	55	NL	4,500
Xylenes	40	60	12,000
Naphthalene	3	NL	1,400
C6-C10			4,400
C6-C10 - BTEX (F1)	45	70	
>C10-C16			3,300
>C10-C16 - N (F2)	110	240	
>C16-C34 (F3)			4,500
>C34-C40 (F4)			6,300

## 10.2.3 NEPM Ecological Investigation Level (EIL) – Urban Residential and Public Open Space

Ecological investigation levels (EILs) have been developed to assess the risk for the presence of metals and organic substance in a terrestrial ecosystem. EILs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to the top 2m of soil. EILs can be applied for arsenic (As), copper (Cu), chromium III (Cr(III)), dichlorodiphenyltrichloroethane (DDT), naphthalene, nickel (Ni), lead (Pb) and zinc (Zn). The NEPM Soil Quality Guidelines (SQG) for EILs are calculated using the Added Contamination Limit (ACL) to determine the amount of contamination that had to be added to the soil to cause toxicity, including ambient background concentration (ABC).

Table 15. Generic EIL for Arsenic, DDT and Naphthalene

Analyte	NEPM 2013 Soil Generic EIL for Urban Residential and Public Open Space, mg/kg	
Arsenic, As	100	
DDT	180	
Naphthalene	170	

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## 10.2.4 NEPM Ecological Screening Level (ESL) - Urban Residential and Public Open Space

ESLs have been developed for selected petroleum hydrocarbons (BTEX, benzo(a)pyrene, TRH F1 and F2) in soil, based on fresh contamination. These parameters are applicable to coarse and fine-grained soil and apply from the surface of the soil to 2m below ground level, which corresponds with the root and habitat zone for many species.

**Table 16.** ESL for Benzene Toluene Ethylbenzene and Xylene (BTEX), Benzo(a)pyrene and Total Recoverable Hydrocarbon Fractions

Analyte	NEPM 2013 Soil ESL for Urban, Residential and Public Open Spaces for Coarse-Grained Soil, mg/kg
Benzene	50
Toluene	85
Ethylbenzene	70
Xylenes	105
BaPyr (B(a)P)	0.7
C6-C10	180
>C10-C16	120
>C16-C34 (F3)	300
>C34-C40 (F4)	2,800

## 10.2.5 NEPM Management Limits – Residential, Parkland and Public Open Space

Management Limits for petroleum have been developed for prevention of explosive vapour accumulation, prevention of the formation of observable Light Non-Aqueous Phase Liquids (LNAPL) and protection against effects on buried infrastructure. Residential, parkland and public open space limits have been adopted based on the proposed land use.

Table 17. Management Limits for Total Recoverable Hydrocarbon Fractions

Analyte	NEPM 2013 Management Limits for Residential, Parkland and Public Open Space for Coarse-Grained Soil, mg/kg	
C6-C10	700	
>C10-C16	1,000	
>C16-C34 (F3)	2,500	
>C34-C40 (F4)	10,000	

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## 10.2.6 NEPM Guidelines for Asbestos

The assessed soil must not contain Asbestos Containing Materials (ACM) in the excess of 0.01%w/w and surface soil within the site must be free of visible ACM, Asbestos Fines (AF) and Fibrous Asbestos (FA).

## 11. Sampling and Analysis Plan

## 11.1 Sampling Rationale

Table 18. Sampling Rationale

Criteria	Chosen Approach	Justification
Sampling Pattern	Systematic approach	This pattern was selected due to the area of the site, data quality, access to underlying soil and groundwater, the AEC and CoPC as well as the potential heterogeneity of any contamination.
Sampling Density	Lot 2: 18 soil samples, from nine (9) boreholes; Two (2) groundwater monitoring well samples; Lot 3: 28 soil samples, from 13 boreholes (including two (2) duplicate samples)	This sampling density correlates with the sampling pattern and was selected based on the extent of the potential contaminated area to be detected, feasibility, the site history, distribution of current and historical uses on site, intended future use of the site, location and condition of structures.
Duplicate (total)	2 duplicate samples: D1 = BH3.1 (primary soil sample) D2 = BH13.2 (primary soil sample)	Quality Control (QC) sampling was undertaken in general accordance with specifications outlined in AS4482.1, <i>Guide to Sampling and Investigation of Potentially Contaminated Soil.</i>
Sampling Depths	Fill material/topsoil sample depths: 0.2m – 0.5m Natural soil material sample depths: 0.5m – 4m	These depths were selected in compliment with sampling density and to target depths of potential contaminants.  Additionally, soil thickness and proximity to the aquifer were considered when determining these depths.

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#### 11.2 Field Sampling Methodology

#### 11.2.1 Soil Samples

All boreholes were completed with a drill auger. Two (2) soil samples were collected from each borehole at depths ranging from 0.2m to 4m. The location and depth of the soil samples for Lot 2 and 3 are reported in Appendix A, Figure 3, Table 1 and Figure 4, Table 2, respectively. In total 46 soil samples were collected across both lots. Additionally, two (2) duplicate samples were collected for quality control and assurance as part of the Sampling and Analysis Plan.

By using a drill auger for the boreholes, the qualified environmental consultant was able to conduct a visual inspection of the soil cross section. Soil was scraped from the freshly cut cross section for sample collection. Drill auger was decontaminated with deionised water between boreholes. Samples were immediately placed in laboratory prepared jars (labelled prior to arriving on site), with the lid securely attached to jar and only removed for the purpose of storing each sample. This sample storage approach allowed the preservation of any potential fill layers as well as natural underlying clay to be stored in stratigraphic layers.

All the soil samples were placed on ice in an esky for transport under Chain of Custody (COC) to a NATA accredited laboratory for the analysis of the CoPC.

Table 19. Lot 2 sample details

Sample	Depth (m)	Soil Type	Soil Matrix
BH 1.1	0.3	Fill material/topsoil	Sand predominated
BH 1.2	0.7	Natural soil	Sand predominated
BH 2.1	0.3	Fill material/topsoil	Sand predominated
BH 2.2	0.7	Natural soil	Sand predominated
BH 3.1	0.3	Fill material/topsoil	Sand predominated
BH 3.2	0.7	Natural soil	Sand predominated
BH 4.1	1.5	Natural soil	Sand predominated
BH 4.2	4	Natural soil	Sand predominated
BH 5.1	0.4	Fill material/topsoil	Sand predominated
BH 5.2	0.8	Natural soil	Sand predominated
BH 6.1	0.3	Fill material/topsoil	Sand predominated
BH 6.2	0.8	Natural soil	Sand predominated
BH 7.1	0.2	Fill material/topsoil	Sand predominated
BH 7.2	0.6	Natural soil	Sand predominated
BH 8.1	0.3	Fill material/topsoil	Sand predominated
BH 8.2	0.6	Natural soil	Sand predominated
BH 9.1	0.3	Fill material/topsoil	Sand predominated

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BH 9.2	0.6	Natural soil	Sand predominated	
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**Table 20.** Lot 3 sample locations

Sample	Depth (m)	Soil Type	Soil Matrix
BH 1.1	0.2	Fill material/topsoil	Sand predominated
BH 1.2	0.5	Fill material/topsoil	Sand predominated
BH 2.1	0.3	Fill material/topsoil	Sand predominated
BH 2.2	0.5	Fill material/topsoil	Sand predominated
BH 3.1	0.4	Fill material/topsoil	Sand predominated
BH 3.2	0.7	Natural soil	Sand predominated
BH 4.1	0.3	Fill material/topsoil	Sand predominated
BH 4.2	0.6	Natural soil	Sand predominated
BH 5.1	0.4	Fill material/topsoil	Sand predominated
BH 5.2	0.6	Natural soil	Sand predominated
BH 6.1	0.2	Fill material/topsoil	Sand predominated
BH 6.2	0.6	Natural soil	Sand predominated
BH 7.1	0.5	Fill material/topsoil	Sand predominated
BH 7.2	1.5	Natural soil	Sand predominated
BH 8.1	0.5	Fill material/topsoil	Sand predominated
BH 8.2	1.5	Natural soil	Sand predominated
BH 9.1	0.5	Fill material/topsoil	Sand predominated
BH 9.2	1.2	Natural soil	Sand predominated
BH 10.1	0.5	Fill material/topsoil	Sand predominated
BH 10.2	1.5	Natural soil	Sand predominated
BH 11.1	0.5	Fill material/topsoil	Sand predominated
BH 11.2	1.5	Natural soil	Sand predominated
BH 12.1	0.5	Fill material/topsoil	Sand predominated
BH 12.2	1.4	Natural soil	Sand predominated
BH 13.1	0.5	Fill material/topsoil	Sand predominated
BH 13.2	1.5	Natural soil	Sand predominated
D1	0.3	Fill material/topsoil	Sand predominated
D2	1.5	Natural soil	Sand predominated

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#### 11.2.2 Groundwater Sampling

Groundwater samples were collected from two (2) monitoring wells, with one (1) sample from each well (MW1 and MW2). A HydraSleeve was lowered into each well, positioned appropriately and allowed to reach equilibrium before retrieval. Depth to water and depth of well were recorded for each well. Groundwater samples were placed in laboratory prepared bottles: amber glass vial for metal analysis and two (2) glass vials for VOCs and TRH per groundwater monitoring well.

The groundwater samples were placed on ice in an esky for transport under Chain of Custody (COC) to a NATA accredited laboratory for the analysis of the COPC.

#### 11.3 Field Quality Assurance & Quality Control Procedures

The following procedures were undertaken to ensure the data quality for each sample:

- · Selection of appropriate sampling methods;
- Decontamination procedures;
- Appropriate containers selected for planned analyses;
- · Appropriate preservation and storage measures to minimise contamination or analyte loss;
- Statement of duplicate frequency;
- · Sampling devices and equipment;
- · Field instrument calibrations.

#### 11.4 Chemical Analysis Methodology

#### 11.4.1 Soil Analysis

Soil samples were extracted and analysed for Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Naphthalene, Total Recoverable Hydrocarbons (TRH), Metals and Asbestos. Soil samples were solvent extracted with methanol and analysed using Gas Chromatography-Mass Spectrometry (GC-MS) Purge and Trap for BTEX, Naphthalene and F1 (C<sub>6</sub>-C<sub>9</sub>) of TRH. Three (3) different extraction surrogates (Bromofluorobenzene, d4-1,2-dichloroethane and d8-toluene) were spiked with a known concentration into each sample to evaluate extraction efficiency. Due to the volatility and potential loss of F1 (C<sub>6</sub>-C<sub>9</sub>) of TRH, this fraction was analysed with GC-MS P&T because this instrument provides a suitable detection limit for these low molecular weight hydrocarbons. The remainder of TRH (F2, F3 and F4) was extracted with Acetone:Dichloromethane (ratio 50:50) and analysed using Gas Chromatography-Flame Ionisation Detection (GC-FID), spiked with the three (3) extraction surrogates used in the previous analysis. Metals (aside from Mercury (Hg)) were digested with nitric acid to decompose organic matter (OM) and hydrochloric acid to complete digestion of metals, then analysed using Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES), with results reported as dry sample. Hg was analysed by digestion with nitric acid, hydrogen peroxide and hydrochloric acid. Hg ions were reduced via stannous chloride reagent in acidic solution to elemental Hg. The vapour was purged using nitrogen as the carrier gas into a cold cell in an Atomic Absorption Spectrometer (AAS).

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Soil moisture % was carried out by placing a known amount of sample in a weighed evaporating basin and drying the soil at either 40°C or 105°C.

#### 11.4.2 Groundwater Analysis

Groundwater samples were analysed for Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Naphthalene, Total Recoverable Hydrocarbons (TRH) and Metals. BTEX, Naphthalene and F1 ( $C_6$ - $C_9$ ) of TRH were analysed directly using Gas Chromatography-Mass Spectrometry (GC-MS) Purge and Trap and were spiked with three (3) different surrogates (Bromofluorobenzene, d4-1,2-dichloroethane and d8-toluene). TRH F2, F3 and F4 groundwater samples were extracted with dischloromethane and analysed using Gas Chromatography-Flame Ionisation Detection (GC-FID).

Metals (aside from Hg) were analysed directly using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS). Hg was analysed by reducing ions via stannous chloride reagent in acidic solution to elemental Hg. The vapour was purged using nitrogen as the carrier gas into a cold cell in an Atomic Absorption Spectrometer (AAS).

#### 11.5 Laboratory Quality Assurance & Quality Control Procedures

The following procedures were undertaken to ensure the data quality for each sample:

- A copy of signed chain-of-custody forms acknowledging receipt date, time and temperature and identity of samples included in shipments;
- Record of holding times;
- · Analytical methods used, including any deviations or method detection limit;
- · Laboratory accreditation for analytical methods used;
- Laboratory performance for the analytical method using duplicates calculated as Relative Percentage Differences (RPD);
- Surrogates used during extraction process;
- Practical quantification limits (PQL);
- Reference laboratory control sample (LCS) used throughout the full method process from extraction to injection;
- Matrix spikes (MS) indicate percentage of recovery of an expected result, via a known concentration if an analyte spiked in a field sub-sample;
- · Laboratory blank results (tabulate);
- · Results are within control chart limits;
- Instrument detection limit.

# 12. Data Quality Objectives (DQOs)

The DQOs have been developed in accordance with the NEPM Appendix B of Schedule B2 and provide the type, quantity and quality of data to support decisions regarding the environmental conditions of this site.

Table 21. Data Quality Objectives

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Step 1: State the	NEO Consulting have identified the following risks to human and environmental
problem	receptors:
Step 2: Identify the decision/goal of the study	- current and/or historical potentially contaminating activities that may have impacted the soils and groundwater at the site.  NEO Consulting considered the site history, the use of this site, and the NEPM Guidelines, when identifying the decisions required for the site to be considered suitable for its continued land use. The decisions required to meet these decisions are as follows:  - Was the sampling, analysis and quality plan designed appropriate to achieve the aim of the DSI?  - If present, is on-site contamination capable of migrating off-site?  - Are there any unacceptable risks to the future on site or off-site receptors in the soil or groundwater?  - Is the site suitable for its continued land use?
Step 3: Identify the information inputs	NEO Consulting has identified issues of potential environmental concern;  • Appropriate identification of CoPC;  • Soil and groundwater sampling and analysis programs across the site;  • Appropriate quality assurance/quality control to enable an evaluation of the reliability of the analytical data; and  • Screening sampler analytical results against appropriate assessment criteria for the intended land use.
Step 4: Define the boundaries of the study	The study boundaries are:  - Lateral boundary: The legally defined area of the site;  - Vertical boundary: The soil interface to the maximum depth reached during soil and groundwater sampling; and  - Temporal boundary: Constrained to a single visit to the site.
Step 5: Develop the analytical approach	Here, NEO Consulting integrate the information from steps 1 – 4 to support and justify our proposed analytical approach. Our aim is to confirm if the site is suitable for the proposed development. If the findings of the SAQP identify;
approach	p possition and manage of the state of

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	2500/ 1 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	- 250% exceedance of the adopted assessment criteria for soil;
	- Any exceedance of the adopted assessment criteria for groundwater;
	- Groundwater flow direction confirms contamination likely to be
	transported offsite;
	- Professional opinion that further assessment is required; and/or
	- Adopted RPD for QC data not met.
	Further assessment may be required to confirm suitability of the site in the form
	of; Data Gap investigation, Remediation Action Plan and Site Validation.
Step 6: Specify	To determine if the soils and groundwater are within acceptable ranges, we
performance or	employ the following NEPM criteria:
acceptance criteria	- The 95% upper confidence limit (UCL) is calculated for the mean
. **:	concentration of each contaminant for each individual sample across a
	sampling plane (eg. surface samples, depth samples), which provides the
	probability that 95% of the data obtained will meet the acceptance
	criteria; and
	- a limit on decision error will be 5% that the conclusion may be incorrect.
	a minitian decision end will be 5% that the conclusion may be inconced.
Step 7: Optimise	Grid sampling pattern within the AEC will provide suitable coverage of the site to
the design for	produce reliable data in alignment with the Data Quality Indicators (DQIs) to
obtaining data	cover precision, accuracy, representativeness, completeness and comparability
	(PARCC). This sampling pattern will ensure that critical locations are assessed and
	analysed appropriately for CoPC.
The DQOs align	Yes
with CSM	

# 13. Analytical Results

# 13.1 Soil Analytical Results

The soil analytical results are summarised below. Detailed soil analytical results are presented in the laboratory reports in **Appendix B.** NL = Not Limited; NA = Not Analysed

# Results Indicator Exceedance of guideline limit for one or more samples.

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No exceedance of guideline limit for all samples.

## 13.1.1 Soil Analytical Results for Lot 2

**Table 22.** Analytical results for Total Recoverable Hydrocarbons (TRH) and Benzene Toluene Ethylbenzene Xylene (BTEX)

Total Recoverable Hydrocarbons (TRH) and Benzene Toluene, Ethylbenzene and Xylene (BTEX)	NEPM 2013 HSL- D for Vapour Intrusion 0-<1m Sand, mg/kg	NEPM 2013 HSL- D for Vapour Intrusion 1-<2m Sand, mg/kg	NEPM 2013 HSL- D for Vapour Intrusion 2-<4m Sand, mg/kg	NEPM 2013 HSL- D for Vapour Intrusion 4m+ Sand, mg/kg	NEPM 2013 HSL- D for Direct Contact, mg/kg	NEPM 2013 ESL for Commercial/ Industrial, Coarse- Grained Soil, mg/kg	NEPM 2013 Management Limits for Commercial/ Industrial, Coarse- Grained Soil, mg/kg
Benzene							
Toluene	NL	NL	NL	NL	_	_	
Ethylbenzene	NL	NL	NL	NL			
Xylenes		NL	NL	NL			
C6-C10						_	
C6-C10 - BTEX (F1)	_			NL			
>C10-C16							
>C10-C16 - N (F2)	NL	NL	NL	NL	1798		- 1700
>C16-C34 (F3)							
>C34-C40 (F4)							

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Table 23. Analytical results for Polycyclic Aromatic Hydrocarbons (PAH)

Polycyclic Aromatic Hydrocarbons (PAH)	NEPM 2013 HSL-D for Vapour Intrusion 0-<1m Sand, mg/kg	NEPM 2013 HSL-D for Vapour Intrusio n 1-<2m Sand, mg/kg	NEPM 2013 HSL-D for Vapour Intrusio n 1-<2m Sand, mg/kg	NEPM 2013 HSL-D for Vapour Intrusio n 1-<2m Sand, mg/kg	NEPM 2013 HSL-D for Direct Contact, mg/kg	NEPM 2013 HIL-D, mg/kg	NEPM 2013 Soil ESL for Commercial/ Industrial for Coarse- Grained Soil, mg/kg	NEPM 2013 Generic EIL for Commerci al/ Industrial mg/kg
Naphthalene	NL	NL	NL	NL				
Benzo[a]pyrene							NA	
Carcinogenic PAHs (as BaP TEQ)						NA		
Total PAH (18)						NA		

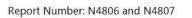
Table 24. Analytical results for Pesticides

Pesticides	NEPM 2013 HIL-D, mg/kg	NEPM 2013 Generic EIL for Commercial/ Industrial, mg/kg
НСВ	_	
Heptachlor	<b>V</b>	
Chlordane	_	
Aldrin & Dieldrin		
Endrin	_	
DDT		_
DDT+DDE+DDT	_	
Endosulfan	_	
Methoxychlor	_	

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Mirex	_	
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Table 25. Analytical results for Heavy Metals

Metals	NEPM 2013 HIL-D, mg/kg	NEPM 2013 Generic EIL for Commercial/ Industrial, mg/kg
Arsenic, As	_	_
Cadmium, Cd	_	
Chromium, Cr	_	
Copper, Cu	_	
Lead, Pb	_	
Nickel, Ni	_	
Zinc, Zn		
Mercury, Hg		

Table 26. Analytical results for Asbestos

Chemical	All Lot 2 Samples
Asbestos Detected	Not detected

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## 13.1.2 Soil Analytical Results for Lot 3

**Table 27.** Analytical results for Total Recoverable Hydrocarbons (TRH) and Benzene Toluene Ethylbenzene Xylene (BTEX)

Total Recoverable Hydrocarbons (TRH) and Benzene Toluene, Ethylbenzene and Xylene (BTEX)	NEPM 2013 HSL-A for Vapour Intrusion 0- <1m Sand, mg/kg	NEPM 2013 HSL-A for Vapour Intrusion 1- <2m Sand, mg/kg	NEPM 2013 HSL-A for Direct Contact, mg/kg	NEPM 2013 ESL for Urban, Residential and Public Open Spaces, Coarse- Grained Soil, mg/kg	NEPM 2013 Management Limits for Residential, Parkland and Public Open Space, Coarse- Grained Soil, mg/kg
Benzene					
Toluene	_			_	
Ethylbenzene		NL		_	
Xylenes			_	_	
C6-C10			_	_	
C6-C10 - BTEX (F1)					
>C10-C16		1	_		_
>C10-C16 - N (F2)		_			
>C16-C34 (F3)					
>C34-C40 (F4)					

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Table 28. Analytical results for Polycyclic Aromatic Hydrocarbons (PAH)

Polycyclic Aromatic Hydrocarbons (PAH)	NEPM 2013 HSL- A for Vapour Intrusion 0-<1m Sand, mg/kg	NEPM 2013 HSL- A for Vapour Intrusion 1-<2m Sand, mg/kg	NEPM 2013 HSL- A for Direct Contact, mg/kg	NEPM 2013 HIL-A, mg/kg	NEPM 2013 Soil ESL for Urban, Residential and Public Open Spaces for Coarse- Grained Soil, mg/kg	NEPM 2013 Generic EIL for Urban Residential and Public Open Space, mg/kg
Naphthalene		NL				
Benzo[a]pyrene					NA	
Carcinogenic PAHs (as BaP TEQ)				NA		1:
Total PAH (18)				NA		

Table 29. Analytical results for Pesticides

Pesticides	NEPM 2013 HIL-A, mg/kg	NEPM 2013 Generic EIL for Urban Residential and Public Open Space, mg/kg
НСВ		
Heptachlor		
Chlordane		
Aldrin & Dieldrin	_	
Endrin		
DDT		
DDT+DDE+DDT		
Endosulfan		

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Methoxychlor	_	
Mirex		

Table 30. Analytical results for Heavy Metals

Metals	NEPM 2013 HIL-A, mg/kg	NEPM 2013 Generic EIL for Urban Residential and Public Open Space, mg/kg
Arsenic, As		
Cadmium, Cd	_	
Chromium, Cr	_	
Copper, Cu	<b>V</b>	
Lead, Pb	_	
Nickel, Ni	_	
Zinc, Zn		
Mercury, Hg		

Table 31. Analytical results for Asbestos

Chemical	All Lot 3 Samples
Asbestos Detected	Not detected

## 13.2 Groundwater Results

The groundwater analytical results are summarised below. Detailed groundwater analytical results are presented in the laboratory reports in **Appendix B.** 

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**Table 32.** Summary of groundwater HSL-D analytical results for Lot 2.

NEPM Assessment Criteria	NEPM 2013 Commercial/Industrial Groundwater <b>HSL-D</b> for Vapour Intrusion 2 - <4m <b>Sand</b> , mg/L	NEPM 2013 Commercial/Industrial Groundwater <b>HSL-D</b> for Vapour Intrusion 4 - <8m <b>Sand</b> , mg/L	NEPM 2013 Commercial/Industrial Groundwater <b>HSL-D</b> for Vapour Intrusion 8m+ <b>Sand</b> , mg/L
Benzene	_		
Toluene	NL	NL	NL
Ethylbenzene	NL	NL	NL
Xylenes	NL	NL	NL
Naphthalene	NL	NL	NL
Benzo(a)pyrene	NA	NA	NA
TRH C6-C10 - BTEX (F1)	_	_	_
TRH >C10-C16 - Naphthalene (F2)	NL	NL	NL

Table 33. Summary of soil analytical results for Lot 2.

Analytes	NEPM 2013 <b>GIL</b> Drinking Water, mg/L	NEPM 2013 <b>GIL</b> Marine Waters, μg/L	NEPM 2013 <b>GIL</b> Fresh Waters, µg/L
	Monocyclic Aromatic H	/drocarbons	
Benzene			
Toluene		ī.	-
Ethylbenzene		•	-
Xylenes	_	F.	
	Polycyclic Aromatic Hy	drocarbons	
Naphthalene	*		
Benzo(a)pyrene			-

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Metals			
Arsenic, As	_	2	
Cadmium, Cd	_		<b>V</b>
Chromium, Cr			
Copper, Cu			
Lead, Pb			
Nickel, Ni			
Zinc, Zn			_
Mercury			

# 14. Data Quality Indicators

Table 23. Field Data Quality Indicators

Completeness	The DSI ensured that all critical locations for soil and groundwater were sampled, and samples were collected within the grid formation at the appropriate depths during a single visit to the site. This plan also aligns with Standard Operating Practices (SOP), to produce valid and reproducible data. NEO Consulting's qualified environmental consultants are experience and ensure compliance and completion of all sample recording, labelling and COC procedures.
Comparability	The DSI aligns with SOP to produce qualitative data. NEO Consulting's qualified environmental consultants sampled uniformly to ensure that each individual sample collection contained sufficient soil (g) and groundwater (mL) to produce a dataset that is reflective of the environmental conditions of the site at time of collection. All samples were handled and stored in a manner that maximised the preservation of all potential CoPC within the soil and groundwater samples. Climatic and physical conditions at the time of sample collection were considered and recorded.

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Representativeness	The DSI aligns with SOP to produce a qualitative dataset that is representative of both soil and groundwater on site. NEO Consulting's qualified environmental consultants ensured sample collection, handling, storage and transfer was appropriate for soil and groundwater. Additionally, samples reflect environmental conditions at time of collection and samples are homogenised to maximise detection during laboratory analysis.
Precision	The DSI aligns with SOP to produce qualitative data that measures the variability of results. The primary technique for evaluating field precision is by collection of duplicate samples, to measure the difference in response between two (2) different samples from the sample location. NEO Consulting's qualified environmental consultants ensured that duplicate frequency was appropriate to sampling plan and area of site.
Accuracy	The DSI aligns with SOP to produce qualitative data that measures bias within the results. NEO Consulting's qualified environmental consultants ensured all COC procedures were carried out appropriately to minimise incidents of cross contamination or incorrect handling and storage of samples.

Table 24. Laboratory Data Quality Indicators

Completeness	The allocated NATA accredited laboratory produce reliable and thorough datasets. All samples were analysed for CoPC using an appropriate and standardised extraction method and analytical instrument. Samples were received, extracted and injected within specified holding times. The laboratory qualified environmental organic chemists ensured completion of COC procedures, wet chemistry, data integration and calculation.
Comparability	Analytical procedures within the NATA accredited laboratory were specialised and standardised for both soil and groundwater samples. The qualified environmental organic chemists determined the appropriate extraction methods and analytical instruments used based on response factor and ability to target CoPC. Spikes and surrogates were chosen based on appropriateness to avoid coelution with contaminants indigenous to the samples and across varying retention times to map response factor. The chosen spikes and surrogates were used for all samples and analysis was completed within the same batch to account for analytical instrument calibration (in addition system blanks support instrument calibration baseline results).

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Representativeness	The NATA accredited laboratory procedures ensured the data is representative of the site by using appropriate extraction and analytical instrument methods. The qualified environmental organic chemists followed COC procedures; ensured that extraction methods were specialised for each potential contaminant and standardised across all samples; and used analytical instruments suitable for the sample type, targeted CoPC, extraction method, instrument sensitivity, response factor and detection limit.
Precision	Quantitative measures undertaken by the NATA accredited laboratory include field and laboratory duplicates. The qualified environmental organic chemists produced a field duplicate analysis that measured the precision of field sampling and maps the potential heterogeneity of contamination across a field sampling location. The laboratory duplicate procedure included two (2) laboratory sub-samples for extraction and analysis from the one (1) field sample in the collection container. The two (2) laboratory sub-samples map the potential heterogeneity of contamination that can occur within the one (1) field samples collection.
Accuracy	Quantitative measures undertaken by the NATA accredited laboratory's qualified environmental organic chemists include the analysis of field, rinsate and method blanks; spike and surrogate analysis to measure response factor and retention time; laboratory control samples; appropriateness of analytical method; and timing and completion of analysis.

## 15. Conclusion

## 15.1 Soil

## 15.1.1 Lot 2

Analytical results did not exceed the NEPM Assessment Criteria for Commercial/Industrial site for all samples.

## 15.1.2 Lot 3

Analytical results exceeded the NEPM Assessment Criteria Residential A in TRH ( $>C_{10}-C_{16}$  minus Naphthalene) for HSL-A Vapour Intrusion, 0-<1m depth (Sand) (110mg/kg) with BH9.1 recording 400mg/kg, and HSL-A Vapour Intrusion, 1-<2m depth (Sand) (240mg/kg) with BH9.2 recording 280mg/kg. Additionally, analytical results exceeded the NEPM Assessment Criteria Residential A in TRH ( $>C_{10}-C_{16}$ ) for ESL (Urban, Residential and Public Open Spaces for coarse-grained soil) (120mg/kg) with BH9.1 recording 400mg/kg, and BH9.2 recording 280mg/kg; and

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TRH ( $>C_{16}-C_{34}$ ) for ESL (300mg/kg) with BH9.1 recording 450mg/kg, and BH9.2 recording 330mg/kg. This contamination requires remedial action for the site to be made suitable for the proposed development. All other analytical results were below the NEPM Assessment Criteria for Residential A sites for all samples.

#### 15.2 Groundwater

Analytical results exceeded the NEPM Assessment Criteria for one (1) sample, from MW1. Metals exceed the GIL Guidelines for Marine and Fresh Waters in sample MW1 with Copper (3µg/L) and Zinc (55µg/L), with GIL Guideline limits for Marine Water for Copper 1.3µg/L and Zinc 15µg/L, while GIL Guideline limits for Fresh Water for Copper 1.4µg/L and Zinc 8µg/L. The exceedance of Zinc and Copper within the groundwater are likely to be representative of background concentrations attributed to local geology and are associated with typical shale and sandstone mineralogy. Total metals were recorded, not dissolved metals which are often recorded higher, also these metals are not directly associated with the service station operations and can be attributed to naturally occurring levels of Zinc and Copper within ground water. All other analytical results were below the NEPM Assessment Criteria for Commercial/Industrial sites for all samples.

NEO Consulting finds, based on this Targeted Detailed Site Investigation that the site can be made suitable for the proposed developments on both Lot 2 and Lot 3 providing the recommendations within **Section 16** are implemented.

## 16. Recommendations

Based on the information collected and available during this investigation, the following recommendations have been made:

- Remedial Action Plan (RAP) to be undertaken on Lot 3 to guide the remediation of the TRH F2
  contamination surrounding BH9. Additionally, a <u>Data Gap Investigation (DGI)</u> should be undertaken prior to
  the implementation of the RAP to assess if PAH contamination co-occurs with the TRH contamination;
- Any soils requiring excavation, on-site reuse and/or removal must be classified in accordance with "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA (2014);
- Any areas of the site suspected of containing ACM including soil and/or fill material are to be handled in accordance with relevant Australian Standards, SafeWork NSW codes of practice and any other applicable requirements; and
- A site specific 'Unexpected Finds Protocol' is to be made available for reference for all occupants and/or site workers in the event unanticipated contamination is discovered, including asbestos.

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#### References

- Goulburn Mulwaree Local Environmental Plan 2009;
- Department of Urban Affairs and Planning, NSW Environmental Protection Authority, Managing Land
   Contamination Planning Guidelines SEPP 55 Remediation of Land, 1998;
- National Environment Protection Measures, Schedule B1 Guideline on Investigation Levels for Soil and Groundwater 2013;
- National Environment Protection Measures, Schedule B2 Guideline on Site Characterisation, 2013;
- National Environmental Protection Measures, Schedule B5c Guideline on Ecological Investigation Levels
  for Arsenic, Chromium (III), Copper, DDT, Lead, Naphthalene, Nickel and Zinc, 2013;
- National Environment Protection Measures, Schedule B7 Guideline on Derivation of Health Based Investigation Levels, 2013;
- National Environment Protection Measures, Appendix 1 The Derivation of HILS for Metals and Inorganics, 2013;
- NSW EPA, Contaminated Land Management, Guidelines for the NSW Site Auditor Scheme, 2017 (3<sup>rd</sup> Edition);
- NSW Environmental Protection Authority, Waste Classification Guidelines Part 1: Classifying Waste, 2014;
- NSW Environmental Protection Authority, Sampling Design Guidelines, 1995;
- The Contaminated Land Management Act 1997;
- NSW Environmental Protection Authority, Guidelines on the Duty to Report Contamination under Contaminated Land Management Act, 1997;
- NSW EPA, Technical Note: Investigation of Service Station Sites, 2014;
- NSW Department of Environment and Conservation, Guidelines for the Assessment and Management of Groundwater Contamination, 2007;
- NSW Environmental Protection Authority, Guidelines for Consultants Reporting on Contaminated Sites, 2020;
- · Protection of the Environment and Operation Act 1997;
- · Protection of the Environment Operations (Waste) Regulations, 2005;
- SafeWork SNW Code of Practice, How to Safely Remove Asbestos, 2016;
- SafeWork NSW Code of Practice, How to Manage and Control Asbestos in the Workplace, 2016;
- SafeWork NSW, Managing Asbestos in or On Soil, 2014
- State Environment Protection Policy 55 (SEPP 55). Remediation of Land Under the Environmental Planning and Assessment Act, 1998;
- Work Health and Safety Act, 2011; and
- Work Health and Safety Regulation, 2011.

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#### Limitations

The findings of this report are based on the Scope of Work outlined in Section 2. NEO Consulting 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 site are the professional opinions of NEO Consulting personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, NEO Consulting assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of NEO Consulting, or developments resulting from situations outside the scope of this project.

The results of this assessment are based on the site conditions identified at the time of the site inspection and validation sampling. NEO Consulting will not be liable to revise the report to account for any changes in site characteristics, regulatory requirements, assessment criteria or the availability of additional information, subsequent to the issue date of this report.

NEO Consulting is not engaged in environmental consulting and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes.

**NEO CONSULTING** 

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## **APPENDIX A**

Figures and Site Photographic Log

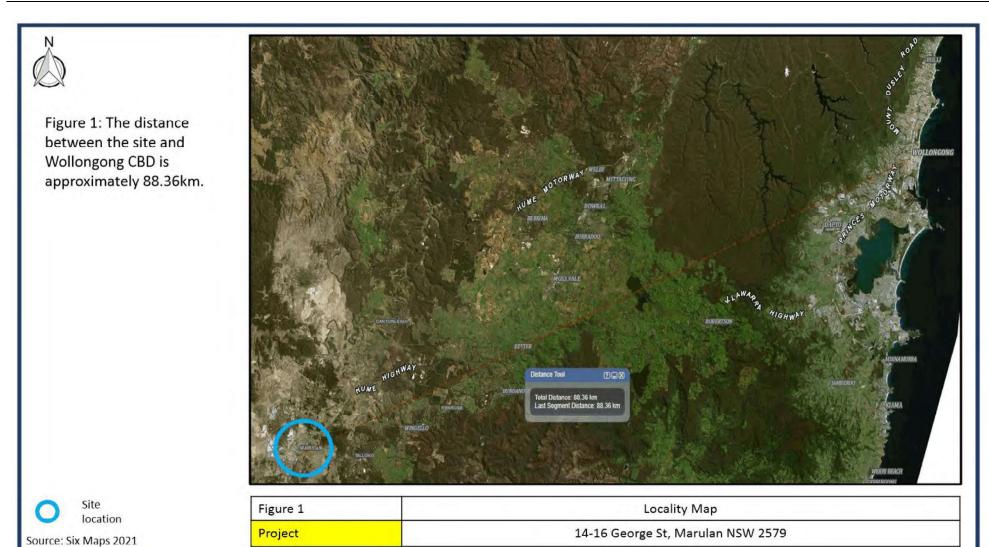




Figure 2: The latest image of the site shows that the site consists of three (3) separate lots.

The red area is **Lot 1**. The Lot 1 is a square shape and contains excavated areas and a structural dwelling. Lot 1 is approximately 27,770.12m<sup>2</sup> in size and has not been assessed as part of this investigation.

The purple shaded area is classified as **Lot 2**. Lot 2 is a oblique shape that contains an active fuel station. This site has an area of approximately 39896.33m<sup>2</sup>. The green shaded area is the location of the proposed fast food development.

The orange shaded area is classified as Lot 3. Lot 3 is a smaller site that contains a structural dwelling. The area of Lot 3 is approximately 5360.81m<sup>2</sup>.

Within this DSI, NEO Consultants only focused on Lot 2 and Lot 3.

⊗ Intrusive sampling locations

Source: NearMaps 2021

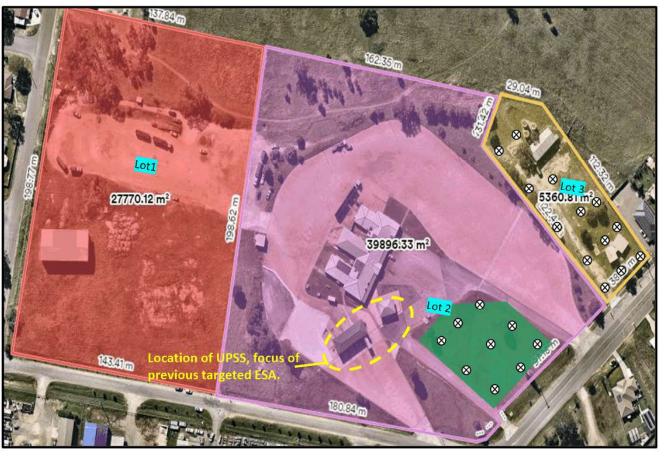


Figure 2	Site Details of Map
Project	14-16 George St, Marulan NSW 2579



Figure 3: locations of sampling and UPSS. Focus of previous Targeted ESA report.

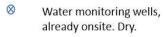
Sample Name	Approximate Depth (m)
BH1 1.5	1.5
BH1 4.5	4.5
BH2 1.5	1.5
BH2 4.5	4.5
BH3 1.5	1.5
BH3 5	5.0
BH4 1.5	1.5
BH4 4.5	4.5



UST



Fuel pump bowser



⊗ Borehole location

Source: NearMaps 2021



Figure 3	Site Details of Map
Project	14 George St, Marulan NSW 2579



Figure 4: Approximate borehole locations of Lot 2.

Sample Name	Approximate Depth (m)	Sample Name	Approximate Depth (m)
BH1.1	0.3	BH5.2	0.8
BH1.2	0.7	BH6.1	0.3
BH2.1	0.3	BH6.2	0.8
BH2.2	0.7	BH7.1	0.2
BH3.1	0.3	BH7.2	0.6
BH3.2	0.7	BH8.1	0.3
BH4.1	1.5	BH8.2	0.6
BH4.2	4	BH9.1	0.3
BH5.1	0.4	BH9.2	0.6

	Depth of well m bgl	Depth to water m bgl
MW2	10.50	8.70
MW1	9.00	7.80

⊗ Monitoring well installed by NEO

⊗ Borehole location

Source: NearMaps 2021



Figure 4	Site Details of Map	
Project	14-16 George St, Marulan NSW 2579	



Figure 5: Approximate borehole locations of Lot 3.

⊗ Borehole location

Approximate Depth (m)	Sample Name	Approximate
		Depth (m)
0.2	BH8.1	0.5
0.5	BH8.2	1.5
0.3	BH9.1	0.5
0.5	BH9.2	1.2
0.4	BH10.1	0.5
0.7	BH10.2	1.5
0.3	BH11.1	0.5
0.6	BH11.2	1.5
0.4	BH12.1	0.5
0.6	BH12.2	1.4
0.2	BH13.1	0.5
0.6	BH13.2	1.5
0.5	D1 (Duplicate of 3.1)	0.3
1.5	D2 (Duplicate of 13.2)	1.5
	0.5 0.3 0.5 0.4 0.7 0.3 0.6 0.4 0.6 0.2 0.6 0.5	0.5 BH8.2  0.3 BH9.1  0.5 BH9.2  0.4 BH10.1  0.7 BH10.2  0.3 BH11.1  0.6 BH11.2  0.4 BH12.1  0.6 BH12.2  0.2 BH13.1  0.6 BH13.2  0.5 D1 (Duplicate of 3.1)  1.5 D2 (Duplicate

BH8 / MW3	Depth of well m bgl	Depth to water m bgl
MW3	7.5	Dry



Figure 5	Site Details of Map
Project	14-16 George St, Marulan NSW 2579



Figure 6: Depicts an aerial view of the site and surrounding area within the year 2010. The site is an irregular shaped lot and contains an active service station and a retail shop. Moreover, it comprises two abounded wooden shed, and un-used fuel bowsers and fuel tanks. The site also consists of landscaping including trees and grass areas. The surrounding area is composed of acreage, residential and commercial properties.



Figure 6 Historical Photograph: 2010

Project 14-16 George St, Marulan NSW 2579

Source: Google Earth 2021



Figure 7: Depicts an aerial view of the site and surrounding area within the year 2015. The site has remained similar to the image taken in 2010. The surrounding area has increased in residential and commercial developments.



Figure 7 Historical Photograph: 2015

Project 14-16 George St, Marulan NSW 2579

Source: Google Earth 2021



Figure 8: Depicts an aerial view of the site and surrounding area within the year 2021. The site has remained similar to the images taken in previous years. The surrounding area has increased in residential and commercial developments.

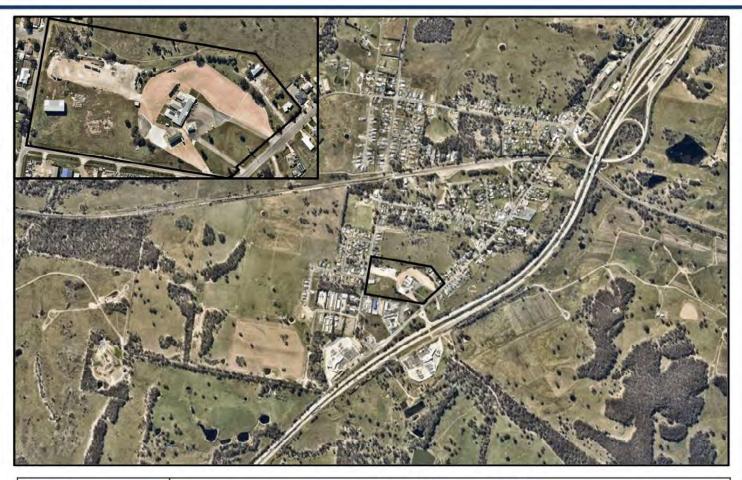


Figure 8 Historical Photograph: 2021

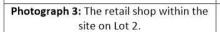
Project 14-16 George St, Marulan NSW 2579

Source: NearMaps 2021

Onsite Photographs: 24.05.21 Description of Images Photograph 1: Overview of the site (Lot 2) from George Street. The site contains an active fuel station and retail shop. The site consists of a mix groundcover including grass, concrete, bitumen, and pavement. The site is overall flat. Photograph 2: The fuel station within the site (Lot 2). The site contains two metal canopy which shelters nine (9) fuel bowsers.



Image





Photograph 4: The entrance gate of Lot 3 located on George Street. Lot 3 contains a wooden shed, fuel bowser and over ground fuel tanks. Lot 3 is separated from Lot 2 using chain wire fencing and consists of scattered grass groundcover and a few trees.

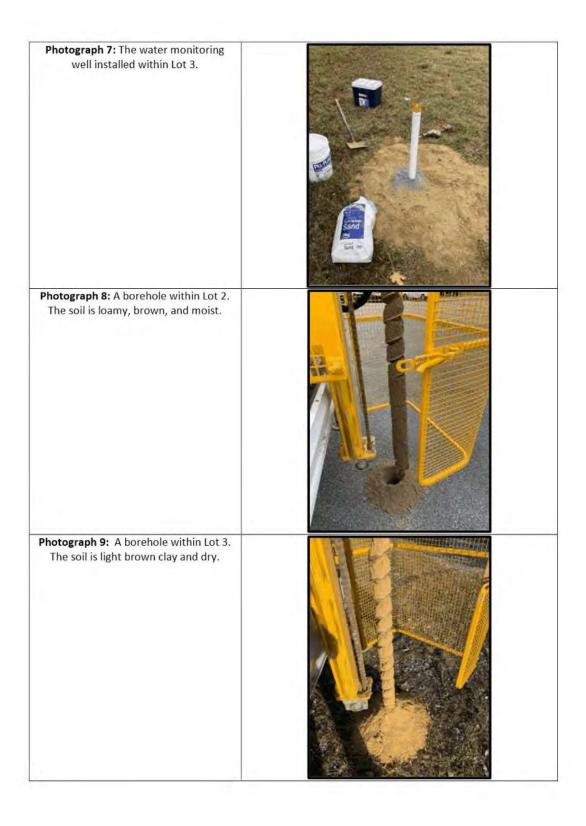


**Photograph 5:** historical fuel tanks within Lot 3.



**Photograph 6:** The steel shed and fuel bowser within Lot 3.





# **APPENDIX B**

Laboratory Results Summary Table

 Table 25. Lot 2 soil analytical results for Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethylbenzene Xylene (BTEX) and Naphthalene. F1 = subtract the sum of BTEX concentrations from the  $C_6$ - $C_{10}$  aliphatic hydrocarbon fraction. F2 = subtract Naphthalene from the  $> C_{10}$ - $C_{16}$  aliphatic hydrocarbon fraction.

					1		7		Y	ľ	Ť	r
NEPM Asse	essment Criteria	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	C6-C10	C6-C10 - BTEX (F1)	>C10-C16	>C10-C16 - N (F2)	>C16-C34 (F3)	>C34-C40 (F4)
NEPM 2013 Co	mmercial/Industrial				,							I.
Soil <b>HSL-D</b> for	Vapour Intrusion, 0-	3	NL	NL	230	NL		260		NL		
<1m depti	h, <b>Sand</b> , mg/kg											
NEPM 2013 Co	mmercial/Industrial											
Soil <b>HSL-D</b> for	Vapour Intrusion, 1-	3	NL	NL	NL	NL		370		NL		
<2m deptl	h, <b>Sand</b> , mg/kg											
NEPM 2013 Co	mmercial/Industrial											
Soil <b>HSL-D</b> for	Vapour Intrusion, 2-	3	NL	NL	NL	NL		630		NL		
<4m dept	h, <b>Sand</b> , mg/kg											
NEPM 2013 Co	mmercial/Industrial											
Soil <b>HSL-D</b> for V	apour Intrusion, 4m+	3	NL	NL	NL	NL		NL		NL		
depth, \$	Sand, mg/kg											_
NEDM 2012 C	1.00	420		27.000					20.000		27.000	
	mmercial/Industrial direct contact, mg/kg	430	99,000	27,000	81,000	11,000	26,000		20,000		27,000	38,000
NEPM 20	13 Soil ESL for											
Commercial/Indu	ustrial, coarse-grained	75	135	165	180		215		170		1,700	3,300
soil	, mg/kg											
NEPM 2013 Ma	nagement Limits for			I.		J					-	
Commercial/Indu	ustrial, coarse-grained						700		1,000		3,500	10,000
soil	l. mg/kg					,						
NEPM 2013 S	oil Generic <b>EIL</b> for									le.	-	
Commercial/	Industrial, mg/kg					370						
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH 1.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 1.2	0.7	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 2.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 2.2	0.7	<0.1	<0.1	<0.1	<0.3	<0.1	5165	<25	<25	<25	1915	<120
DEL Z.Z	0.7	<0.1	<0.1	<0.1	<0.5	<0.1	<25	<25	<25	<25	<90	<120

BH 3.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 3.2	0.7	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 4.1	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 4.2	4	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 5.1	0.4	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 5.2	0.8	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 6.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 6.2	0.8	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 7.1	0.2	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 7.2	0.6	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 8.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 8.2	0.6	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 9.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 9.2	0.6	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120

Table 26. Lot 2 soil analytical results for metals

NEPM	I Assessment Criteria	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg
NEPM 2013 Residential Soil <b>HIL-D</b> , mg/kg		3000	900	3600	240 000	1500	6000	400 000	730
	013 Soil Generic <b>EIL</b> for rcial/Industrial, mg/kg	160							
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH 1.1	0.3	2	<0.3	1.8	1.5	8	<0.5	10	<0.05
BH 1.2	0.7	1	<0.3	1.5	<0.5	7	<0.5	3.7	<0.05
BH 2.1	0.3	1	<0.3	2.0	1.6	8	<0.5	7.1	<0.05
BH 2.2	0.7	2	<0.3	2.8	<0.5	8	<0.5	4.8	<0.05
BH 3.1	0.3	1	<0.3	2.8	6.6	10	1.1	44	<0.05

BH 3.2	0.7	1	<0.3	2.8	1.3	9	0.7	7.6	<0.05
BH 4.1	1.5	5	<0.3	6.3	4.6	7	2.5	32	<0.05
BH 4.2	4	4	<0.3	14	4.4	9	3.3	41	<0.05
BH 5.1	0.4	6	<0.3	11	2.2	13	2.8	20	<0.05
BH 5.2	0.8	6	<0.3	9.8	2.7	13	2.5	20	<0.05
BH 6.1	0.3	1	<0.3	1.6	2.0	8	<0.5	9.7	<0.05
BH 6.2	0.8	7	<0.3	8.8	1.0	12	1.6	10	<0.05
BH 7.1	0.2	5	<0.3	8.3	1.7	28	1.0	24	<0.05
BH 7.2	0.6	5	<0.3	7.6	1.0	10	1.4	13	<0.05
BH 8.1	0.3	6	<0.3	8.2	0.6	10	1.2	13	<0.05
BH 8.2	0.6	5	<0.3	9.6	0.8	13	1.2	11	<0.05
BH 9.1	0.3	3	<0.3	3.6	1.1	17	0.8	10	<0.05
BH 9.2	0.6	7	<0.3	7.4	0.7	10	1.3	11	<0.05

Table 27. Lot 2 soil analytical results for pesticides

NEPM Asse	ssment Criteria	Hexachlorobenzene (HCB)	Heptachlo r	Chlordane	Aldrin & Dieldrin	Endrin	DDT	DDT+DDE +DDT	Endosulfan	Methoxychlor	Mirex	Total CLP OCP	Total OPP
	13 Residential L- <b>D</b> , mg/kg	80	50	530	45	100		3600	2000	2500	100		
Commerc	3 Soil Generic  IL for  ial/Industrial,  ng/kg						640					,	
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A0042020	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	-17
BH 1.1	8,404.5		2000000000									0.400	<1.7
BH 1.1 BH 1.2	0.7	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
	0.7	20042000	<0.2	<0.2 <0.2	<0.3 <0.3	<0.2 <0.2	<0.2 <0.2	<0.6 <0.6	<0.5 <0.5	<0.1	<0.1	<1	-50.0.50
BH 1.2		<0.1	200862	ABROX	COSTRES	0.00000	C0258874.	26.24.202.40	5138728337	80000	59/2/5612	2000	<1.7
BH 1.2 BH 2.1	0.3	<0.1 <0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7

BH 4.1	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 4.2	4	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 5.1	0.4	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 5.2	0.8	<0.1	<0,2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 6.1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 6.2	0.8	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 7.1	0.2	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 7.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 8.1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 8.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 9.1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 9.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7

**Table 28.** Lot 3 analytical results for Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethylbenzene Xylene (BTEX) and Naphthalene. F1 = subtract the sum of BTEX concentrations from the  $C_6$ - $C_{10}$  aliphatic hydrocarbon fraction. F2 = subtract Naphthalene from the>  $C_{10}$ - $C_{16}$  aliphatic hydrocarbon fraction.

NEPM Ass	sessment Criteria	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	C6-C10	C6-C10 - BTEX (F1)	>C10-C16	>C10-C16 - N (F2)	>C16-C34 (F3)	>C34-C40 (F4
for Vapour Int	sidential A Soil <b>HSL-A</b> rusion, 0-<1m depth, <b>nd</b> , mg/kg	0.5	160	55	40	3		45		110		
for Vapour Int	sidential A Soil <b>HSL-A</b> rusion, 1-<2m depth, <b>nd</b> , mg/kg	0.5	220	NL	60	NL		70		240		
	sidential A Soil <b>HSL-A</b> contact, mg/kg	100	14,000	4,500	12,000	14,000	4,400		3,300		4,500	6,300
Residential and	Soil ESL for Urban, Public Open Spaces for ained soil, mg/kg	50	85	70	105		180		120		300	2,800
Residential, Par	anagement Limits for kland and Public Open e-grained soil, mg/kg						700		1,000		2,500	10,000
Residential an	Generic <b>EIL</b> for Urban d Public Open Space, mg/kg					170						
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3H 1.1	0.2	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 1.2	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 2.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 2.2	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
3.1	0.4	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
3H 3.2	0.7	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 4.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
3H 4.2	0.6	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
3H 5.1	0.4	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	91	<120
BH 5.2	0.6	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	100	<120
BH 6.1	0.2	<0.1	< 0.1	< 0.1	< 0.3	< 0.1	<25	<25	<25	<25	<90	<120

BH 6.2	0.6	<0.1	<0.1	< 0.1	<0.3	< 0.1	<25	<25	<25	<25	<90	<120
BH 7.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 7.2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 8.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 8.2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 9.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	400	400	450	<120
BH 9.2	1.2	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	280	280	330	<120
BH 10.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 10.2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 11.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 11.2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 12.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 12.2	1.4	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 13.1	0.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
BH 13.2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
D1	0.3	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120
D2	1.5	<0.1	<0.1	<0.1	<0.3	<0.1	<25	<25	<25	<25	<90	<120

Table 29. Lot 3 analytical results for metals

NEPM	Assessment Criteria	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg
NEPM 2013 Re	sidential Soil HIL-A, mg/kg	100	20	100	6000	300	400	7400	40
	eneric EIL for Urban Residential c Open Space, mg/kg	100							1.
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH 1.1	0.2	2	<0.3	2.1	1.6	6	0.8	10	<0.05
BH 1.2	0.5	5	1.5	7.3	17	30	5.2	98	<0.05
BH 2.1	0.3	4	<0.3	7.4	2.4	15	1.5	19	<0.05
BH 2.2	0.5	3	<0.3	6.1	0.6	9	0.8	9.4	<0.05
BH 3.1	0.4	5	<0.3	10	0.9	10	2	16	<0.05
BH 3.2	0.7	6	<0.3	10	<0.5	13	1.5	8.6	<0.05
BH 4.1	0.3	6	<0.3	7.6	0.6	14	1.1	13	<0.05
		5	<0.3	11	0.6	10	2.2	13	<0.05

BH 5.1	0.4	4	<0.3	5.8	1.1	12	1.7	17	<0.05
BH 5.2	0.6	7	<0.3	8.1	1.7	16	2.8	24	<0.05
BH 6.1	0.2	4	<0.3	8.6	1.1	10	1.8	17	<0.05
BH 6.2	0.6	5	<0.3	9.2	3.7	13	2.7	35	<0.05
BH 7.1	0.5	2	<0.3	5.8	3.8	5	2.3	32	<0.05
BH 7.2	1.5	3	<0.3	4.9	3.1	4	3.2	30	<0.05
BH 8.1	0.5	3	<0.3	7.2	1.3	8	1.4	7.5	<0.05
BH 8.2	1.5	5	<0.3	11	3.2	10	3.4	39	<0.05
BH 9.1	0.5	5	<0.3	9.4	1.8	9	1.8	9.7	<0.05
BH 9.2	1.2	5	<0.3	7.3	0.8	9	1.8	9.6	<0.05
BH 10.1	0.5	3	<0.3	7	<0.5	15	1.2	5.9	<0.05
BH 10.2	1.5	2	<0.3	5.7	0.6	9	1.2	6.3	<0.05
BH 11.1	0.5	5	<0.3	8.9	0.6	9	1.5	13	<0.05
BH 11.2	1.5	4	<0.3	9.3	1.3	10	2.1	17	<0.05
BH 12.1	0.5	3	<0.3	4.3	1.4	11	1.4	14	<0.05
BH 12.2	1.4	5	<0.3	2.3	3.2	10	1.9	25	<0.05
BH 13.1	0.5	3	<0.3	7.9	3.7	10	1.9	16	<0.05
BH 13.2	1.5	3	<0.3	5.6	3.2	7	2.5	30	<0.05
D1	0.3	7	2.5	9.9	20	32	4.3	130	<0.05
D2	1.5	3	<0.3	4.9	3.7	6	2.3	29	<0.05

Table 30. Lot 3 analytical results for pesticides

NEPM Asse	essment Criteria	Hexachlorobenzene (HCB)	Heptachlor	Chlordane	Aldrin & Dieldrin	Endrin	DDT	DDT+DDE+DDT	Endosulfan	Methoxychlor	Mirex	Total CLP OC Pesticides	Total OP Pesticides
	Residential Soil	10	6	50	6	10		240	270	300	10		
HIL-A, mg/k	g Soil Generic <b>EIL</b>		10									J	
for Urban	Residential and on Space, mg/kg						180						
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH 1.1	0.2	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 1.2	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 2.1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 2.2	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 3.1	0.4	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 3.2	0.7	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 4.1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 4.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 5.1	0.4	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 5.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 6.1	0.2	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 6.2	0.6	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 7.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 7.2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 8.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 8.2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 9.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 9.2	1.2	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7

BH 10.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	< 0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 10.2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1,7
BH 11.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 11.2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 12.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 12.2	1.4	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	< 0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 13.1	0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
BH 13.2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
D1	0.3	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7
D2	1.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1	<1	<1.7

**Table 33.** Lot 2 groundwater analytical results for Total Recoverable Hydrocarbons (TRH), Benzene Toluene Ethylbenzene Xylene (BTEX) and Naphthalene. F1 = subtract the sum of BTEX concentrations from the  $C_6$ - $C_{10}$ -aliphatic hydrocarbon fraction. F2 = subtract Naphthalene from the  $C_{10}$ - $C_{16}$ -aliphatic hydrocarbon fraction. (B(a)P) not analysed (NA).

NEPM Assessment Criteria	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Benzo(a)pyrene	TRH C6-C10 - BTEX (F1)	TRH >C10-C16 - Naphthalene (F2)
NEPM 2013 GIL Drinking Water, mg/L	0.001	0.8	0.3	0.6		0.00001		,
mg/c	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
NEPM 2013 GIL Marine Waters, µg/L	500C		*		50C			
F9/-	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L		
NEPM 2013 GIL Fresh Waters,	950	-	-	350 as o-x; 200 as p-x	16	2:		
F347	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L		
NEPM 2013 Commercial/Industrial Groundwater <b>HSL-D</b> for Vapour Intrusion 2 - <4m <b>Sand</b> , mg/L	5	NL	NL	NL	NL		6	NL
NEPM 2013  Commercial/Industrial  Groundwater <b>HSL-D</b> for Vapour  Intrusion 4 - <8m <b>Sand</b> , mg/L	5	NL	NL:	NĹ	NL		6	NL
NEPM 2013 Commercial/Industrial Groundwater <b>HSL-D</b> for Vapour Intrusion 8m+ <b>Sand</b> , mg/L	5	NL	NL	NL	NL		7	NL
MW1 (μg/L)	<0.5	<0.5	<0.5	<1.5	<0.5	NA	<50	<60
MW2 (μg/L)	<0.5	<0.5	<0.5	<1.5	<0.5	NA	62	<60

MW1 (mg/L)	<0.0005	<0.0005	<0.0005	<0.0015	<0.0005	NA	<0.05	<0.06	
MW2 (mg/L)	<0.0005	<0.0005	<0.0005	<0.0015	<0.0005	NA	0.062	<0.06	

Table 34. Lot 2 groundwater analytical results for metals

NEPM Assessment Criteria	Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg
NEPM 2013 GIL Drinking Water.	0.01	0.002	0.05	2	0.01	0.02	-	0.001
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NEPM 2013 GIL Marine Waters,		0.7	4.4	1.3	4.4	7	15	0.1
μg/L	μg/L	μg/L	µg/L	μg/L	μg/L	μg/L	μg/L	μg/L
NEPM 2013 GIL Fresh Waters,	24 A(III); 13 As(V)	0.2	1	1.4	3,4	11	8	0.06
μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW1 (μg/L)	<1	<0.1	<1	3	<1	1	22	
MW2 (µg/L)	<1	<0.1	<1	<1	<1	<1	<5	
		1 2 22 22		P 2-2-2-1			1 222	1
MW1 (mg/L)	<0.001	0.0001	<0.001	0.003	<0.001	0.001	0.022	<0.0001
MW2 (mg/L)	< 0.001	0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001

## **APPENDIX C**

Property Report and "Dial Before You Dig" Results



### Job No 21630660

Phone: 1100 www.1100.com.au

#### **Caller Details**

Contact: Caller Id: 2384105 Mr Nick Caltabiano Phone: 0435656787 Company: Mobile: NEO Consulting Pty Ltd Not Supplied Not Supplied

Address: 186 Riverstone Pde Email: neo.searches.dbyd@gmail.com

RIVERSTONE NSW 2765

#### Dig Site and Enquiry Details

**WARNING:** The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Metro Marulan Working on Behalf of: Private

**Enquiry Date: Start Date: End Date:** 17/05/2021 24/05/2021 24/05/2021

Address:

Metro Marulan 14 George Street

Marulan NSW 2579

Job Purpose: **Onsite Activity:** Excavation Vertical Boring Location of Workplace: **Location in Road:** Private Property Not Supplied

- Check the location of the dig site is correct. If not submit a new enquiry.
  If the scope of works change, or plan validity dates expire, resubmit your enquiry.
  Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

#### Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You <u>must</u> obtain all necessary information from any and all likely impacted asset owners prior to excavation.

  If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.

  ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.

  Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.

  Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.

- If you damage an underground asset you MUST advise the asset owner immediately.
  By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

#### **Asset Owner Details**

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.

\*\* Asset owners highlighted by asterisks \*\* require that you visit their offices to collect plans.

# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
109768660	Essential Energy	132391	NOTIFIED
109768662	Jemena Gas Country	1300880906	NOTIFIED
109768663	NBN Co, NswAct	1800626329	NOTIFIED
109768661	Telstra NSW, South	1800653935	NOTIFIED

END OF UTILITIES LIST

Lodge Your Free Enquiry Online - 24 Hours a Day, Seven Days a Week [NSW]





14 GEORGE STREET MARULAN 2579



### **Property Details**

Address: 14 GEORGE STREET MARULAN 2579

Lot/Section 2/-/DP1053945

/Plan No:

Council: GOULBURN MULWAREE COUNCIL

### Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans Goulburn Mulwaree Local Environmental Plan 2009 (pub. 8-11-

2013)

Land Zoning IN1 - General Industrial: (pub. 20-2-2009)

Height Of Building NA
Floor Space Ratio NA
Minimum Lot Size NA
Heritage NA
Land Reservation Acquisition NA
Foreshore Building Line NA

Drinking Water Catchment Sub Catchment Boundaries

Subject Land

#### **Detailed planning information**

#### State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

This report provides general information only and does not replace a Section 10.7 Certificate (formerly Section 149)

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## **Property Report**

#### 14 GEORGE STREET MARULAN 2579

- State Environmental Planning Policy (Affordable Rental Housing) 2009: Land Application (pub. 31-7-2009)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Concurrences and Consents) 2018: Land Application (pub. 21-12-2018)
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities)
   2017: Land Application (pub. 1-9-2017)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004: Land Application (pub. 31-3-2004)
- State Environmental Planning Policy (Infrastructure) 2007: Land Application (pub. 21-12-2007)
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries)
   2007: Land Application (pub. 16-2-2007)
- State Environmental Planning Policy (Primary Production and Rural Development) 2019: Land Application (pub. 28-2-2019)
- State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011: Subject Land (pub. 21-1-2011)
- State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017: Subject Land (pub. 25-8-2017)
- State Environmental Planning Policy No 21—Caravan Parks: Land Application (pub. 24-4-1992)
- State Environmental Planning Policy No 33—Hazardous and Offensive Development: Land Application (pub. 13-3-1992)
- State Environmental Planning Policy No 36—Manufactured Home Estates: Land Application (pub. 16-7-1993)
- State Environmental Planning Policy No 50—Canal Estate Development: Land Application (pub. 10-11-1997)
- State Environmental Planning Policy No 55—Remediation of Land: Land Application (pub. 28-8-1998)
- State Environmental Planning Policy No 64—Advertising and Signage: Land Application (pub. 16-3-2001)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

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14 GEORGE STREET MARULAN 2579

#### Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Land near Electrical Infrastructure This property may be located near electrical infrastructure and

could be subject to requirements listed under ISEPP Clause 45.

Please contact Essential Energy for more information.

Local Aboriginal Land Council PEJAR

This report provides general information only and does not replace a Section 10.7 Certificate (formerly Section 149)

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16 GEORGE STREET MARULAN 2579



#### **Property Details**

Address: 16 GEORGE STREET MARULAN 2579

Lot/Section 3/-/DP1053945

/Plan No:

Council: GOULBURN MULWAREE COUNCIL

### Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans Goulburn Mulwaree Local Environmental Plan 2009 (pub. 8-11-

2013)

Land Zoning IN1 - General Industrial: (pub. 20-2-2009)

Height Of Building NA
Floor Space Ratio NA
Minimum Lot Size NA
Heritage NA
Land Reservation Acquisition NA
Foreshore Building Line NA

Drinking Water Catchment Sub Catchment Boundaries

Subject Land

#### **Detailed planning information**

#### State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

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### Property Report

#### 16 GEORGE STREET MARULAN 2579

- State Environmental Planning Policy (Affordable Rental Housing) 2009: Land Application (pub. 31-7-2009)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Concurrences and Consents) 2018: Land Application (pub. 21-12-2018)
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities)
   2017: Land Application (pub. 1-9-2017)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004: Land Application (pub. 31-3-2004)
- State Environmental Planning Policy (Infrastructure) 2007: Land Application (pub. 21-12-2007)
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries)
   2007: Land Application (pub. 16-2-2007)
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- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

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16 GEORGE STREET MARULAN 2579

#### Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Land near Electrical Infrastructure This property may be located near electrical infrastructure and

could be subject to requirements listed under ISEPP Clause 45.

Please contact Essential Energy for more information.

Local Aboriginal Land Council PEJAR

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16-28 PORTLAND AVENUE MARULAN 2579



### **Property Details**

Address: 16-28 PORTLAND AVENUE MARULAN

2579

Lot/Section 1/-/DP1053945

/Plan No:

Council: GOULBURN MULWAREE COUNCIL

### Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans Goulburn Mulwaree Local Environmental Plan 2009 (pub. 8-11-

2013)

Land Zoning IN1 - General Industrial: (pub. 20-2-2009)

Height Of Building NA
Floor Space Ratio NA
Minimum Lot Size NA
Heritage NA
Land Reservation Acquisition NA
Foreshore Building Line NA

Drinking Water Catchment Sub Catchment Boundaries

Subject Land

#### **Detailed planning information**

#### State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

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### Property Report

#### 16-28 PORTLAND AVENUE MARULAN 2579

- State Environmental Planning Policy (Affordable Rental Housing) 2009: Land Application (pub. 31-7-2009)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Concurrences and Consents) 2018: Land Application (pub. 21-12-2018)
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities)
   2017: Land Application (pub. 1-9-2017)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
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- State Environmental Planning Policy (Infrastructure) 2007: Land Application (pub. 21-12-2007)
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries)
   2007: Land Application (pub. 16-2-2007)
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16-28 PORTLAND AVENUE MARULAN 2579

#### Other matters affecting the property

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Land near Electrical Infrastructure This property may be located near electrical infrastructure and

could be subject to requirements listed under ISEPP Clause 45. Please contact Essential Energy for more information.

Local Aboriginal Land Council PEJAR

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Goulburn Mulwaree Council Locked Bag 22

Civic Centre 184 - 194 Bourke Street Goulburn NSW 2580 t (02) 4823 4444 e council@goulburn.nsw.gov.au Goulburn NSW 2580 www.goulburn.nsw.gov.au

Contact: Planning & Environment

Dib Group Pty Ltd PO Box 388 LIDCOMBE NSW 1825

### **SECTION 10.7 (2) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

Receipt No.: 333376 Applicant's Reference: 20236

Certificate No: PLAN/1169/2021

#### **DESCRIPTION OF PROPERTY**

Address: 16-28 Portland Avenue MARULAN NSW 2579

Lot 1 DP 1053945 Legal Description:

#### Names of relevant planning instruments and DCP's

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

#### State Environmental Planning Policies (SEPP)

SEPP No. 21 – Caravan Parks	SEPP (Building Sustainability Index: BASIX) 2004	
SEPP No. 33 – Hazardous and Offensive Development	SEPP (Exempt and Complying Development Codes) 2008	
SEPP No. 36 – Manufactured Home Estates	SEPP (Housing for Seniors or People with a Disability) 2004	
SEPP No. 50 – Canal Estate Development	SEPP (Infrastructure) 2007	
SEPP No. 55 – Remediation of Land	SEPP (Mining, Petroleum Production and Extractive Industries) 2007	
SEPP No. 64 – Advertising and Signage	SEPP (Koala Habitat Protection) 2020	
SEPP No. 65 - Design Quality of Residential Apartment Development	SEPP (State & Regional Development) 2011	
SEPP No. 70 – Affordable Housing (Revised Schemes)	SEPP (State Significant Precincts) 2005	
SEPP (Concurrences and Consents) 2018	SEPP (Affordable Rental Housing) 2009	
SEPP (Primary Production and Rural Development) 2019	SEPP (Educational Establishments and Child Care Facilities) 2017	
SEPP (Koala Habitat Protection) 2021	SEPP (Sydney Drinking Water Catchment) 2011	
SEPP (Vegetation in Non-Rural Areas) 2017		

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## Local Environmental Plan (LEP)

Goulburn Mulwaree Local Environmental Plan 2009

(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 Secretary has notified the Council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

## Draft Amendments to the Goulburn Mulwaree Local Environmental Plan 2009

Draft Goulburn Mulwaree Local Environmental Plan 2009 (B6 Enterprise Corridor and Currawang)

• This amendment only affects: Lot 12 DP 581011, Lot 1 DP 995523, Lot 1 DP 38459, Lots 1 and 2 DP 1196725, Lots 2-6 DP 38459, Lot 22 DP 1113506, Lots 1 and 2 DP 845895, Lots 1 and 2 DP 153553, Lot Y DP 160746, Lot 33 DP 1062014, Lot B DP 152471, Lot A DP 163373, Lot 1 DP 841582, Lot 43 DP 28002, Lot 1 DP 1062993, Lots 1 and 2 DP 28002, Lot B DP 332337, Lot 51 DP 419287, Lot 20 DP 522273, Lot 1 DP 17363, Lots 131,141, 150, 154, 190 and 204 DP750047, Lot 1 DP 1259043, and Lot 1 DP 590583

Draft Goulburn Mulwaree Local Environmental Plan 2009 (37 Ross Street and 23 Brewer Street, Goulburn)

. This amendment only affects Lots 100 and 101 DP 1214244

Draft Goulburn Mulwaree Local Environmental Plan 2009 (Racecourse Drive, Goulburn)

This amendment only affects Lots 1 and 2 DP 1225883, Lots 2, 3, 4 and 5 DP 1047328, Lots 1 and 2 DP 1081406, Lots 11 and 12 DP 1184187, Lots 84, 85, 86, 87 and 88 DP 1090102, Lots 1 and 2 DP 1114744, Lots 81 and 82 DP 1061444, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 DP 1269481

Proposed Natural Disasters Clause

## Draft State Environmental Planning Policies (SEPP's)

Draft Environment SEPP

ISEPP - Amendment - Health Infrastructure

Explanation of Intended Effect - Housing Diversity SEPP includes the consolidation and amendment of three housing related SEPPs:

- SEPP (Affordable Rental Housing) 2009,
- SEPP (Housing for Seniors and People with a Disability) 2004, and
- SEPP No 70 Affordable Housing (Revised Schemes).

Explanation of Intended Effect - Agritourism and Small Scale Agricultural Development outlines proposed amendments to the:

- Standard Instrument (Local Environmental Plans) Order 2006 (Standard Instrument LEP Order),
- State Environmental Planning Policy (Primary Production and Rural Development) 2019 (PPRD SEPP), and
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Codes SEPP).

Explanation of Intended Effect - Design and Place SEPP includes a proposal to:

- Repeal and replace SEPP No 65 Design Quality of Residential Apartment Development and SEPP (Building Sustainability Index: BASIX) 2004 (BASIX SEPP), and
- Consolidate design and place requirements in other SEPPs in the future.
- (3) The name of each development control plan that applies to the carrying out of development on the land.

Goulburn Mulwaree Development Control Plan 2009

Page 2 of 13

(4) In this clause, proposed environmental planning instruments includes a planning proposal for a LEP or a draft environmental planning instrument.

## 2 Zoning and land use under relevant LEP's

(a) The identity of the zone is IN1 General Industrial under the Goulburn Mulwaree Local Environmental Plan 2009.

- (b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent
- (c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent.
- (d) The purposes for which the plan or instrument provides that development is prohibited within the zone.

The answers for parts (b) to (d) are set out in the land use table below:

## Zone IN1 General Industrial

#### 1 Objectives of zone

- · To provide a wide range of industrial and warehouse land uses.
- To encourage employment opportunities.
- · To minimise any adverse effect of industry on other land uses.
- · To support and protect industrial land for industrial uses.

#### 2 Permitted without consent

Roads

#### 3 Permitted with consent

Depots; Extensive agriculture; Freight transport facilities; Funeral homes; Garden centres; General industries; Hardware and building supplies; Industrial training facilities; Kiosks; Landscaping material supplies; Light industries; Markets; Medical centres; Neighbourhood shops; Oyster aquaculture; Places of public worship; Plant nurseries; Rural supplies; Tank-based aquaculture; Timber yards; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4.

## 4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Business premises; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Eco-tourist facilities; Educational establishments; Exhibition homes; Exhibition villages; Function centres; Health services facilities; Heavy industrial storage establishments; Heavy industries; Helipads; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Jetties; Marinas; Mooring pens; Moorings; Pond-based aquaculture Recreation facilities (major); Residential accommodation; Restricted premises; Retail premises; Tourist and visitor accommodation; Water recreation structures; Wharf or boating facilities.

- (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.
  No
- (f) Whether the land includes or comprises critical habitat.

No the land does not include or comprise critical habitat.

(g) Whether the land is located in a heritage conservation area.

The land is not within a heritage conservation area.

(h) Whether an item of environmental heritage is situated on the land.

An item of environmental heritage is not situated on the land

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#### 2A Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

Not applicable to the Goulburn Mulwaree Local Government Area.

## 3 Complying development

Whether or not the land to which the certificate relates is land on which complying development may be carried out under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008?

#### Housing Code

No. Complying development under the Housing Code cannot be undertaken on the land due to the zoning of the land.

## Low Rise Housing Diversity Code

No. Complying development under the Low Rise Housing Diversity Code cannot be undertaken on the land due to the zoning of the land.

## Greenfield Housing Code

No. Complying development under the Greenfield Housing Code cannot be undertaken on the land due to the land not being within a Greenfield Housing Code Area Map under the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

## Inland Code

No. Complying development under the Inland Code cannot be undertaken on the land due to the zoning of the

## Rural Housing Code

No. Complying development under the Rural Housing Code cannot be undertaken on the land due to the zoning of the land.

## **Housing Alterations Code**

Yes. Complying development under the Housing Alterations Code can be carried out on the land.

## General Development Code

Yes. Complying development under the General Development Code can be carried out on the land.

## Commercial and Industrial Alterations Code

Yes. Complying development under the Commercial and Industrial Alterations Code can be carried out on the land.

## Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying development under the Commercial and Industrial (New Buildings and Additions) Code can be carried out on the land.

## Container Recycling Facilities Code

Yes. Complying development under the Container Recycling Facilities Code can be carried out on the land.

## Subdivisions Code

Yes. Complying development under the Subdivisions Code can be carried out on the land.

## **Demolition Code**

Yes. Complying development under the Demolition Code can be carried out on the land.

## Fire Safety Code

Yes. Complying development under the Fire Safety Code can be carried out on the land.

**Note.** If the land is a lot to which the Housing Code, Rural Housing Code, Housing Alterations Code, General Development Code, Commercial and Industrial Alterations Code or Commercial and Industrial (New Buildings and Additions) Code (within the meaning of the *State Environmental Planning Policy (Exempt and Complying* 

Page 4 of 13

Development Codes) 2008 applies, complying development may be carried out on any part of the lot that is not affected by the provisions of Clause 1.19 of that Policy.

## 4B Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

Not applicable to the Goulburn Mulwaree Local Government Area.

#### 5 Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of Section 15 of the *Mine Subsidence Compensation Act 1961*.

No

## 6 Road widening and road realignment

Whether or not the land is affected by Road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993; or
- (b) any environmental planning instrument; or
- (c) any resolution of the Council.

No.

## 7 Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by Policy:

- (a) adopted by the council, or
- (b) adopted by any other public authority,

that restricts 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)?

No.

## 7A Flood related development controls information

(1) Whether or not development on the land or part of the land for the purpose of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purpose of group homes or seniors housing) is subject to flood related development controls.

No

**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009*. The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003*. If so, Council has not undertaken a flood study outside the flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No

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**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009.* The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003.* If so, Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

#### 8 Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument makes provision in relation to the acquisition of the land by a public authority, as referred to in Section 3.15 of the Act?

No.

## 9 Contribution plans

The name of each contributions plan applying to the land.

Goulburn Mulwaree Section 94 Contributions Plan 2009 and/ or Section 94A Development Contributions Plan 2009\*

\* The Goulburn Mulwaree Local Infrastructure Contributions Plan 2021 (s.7.11 and s.7.12 plan) commences on 1 June 2021 and repeals the above two Plans upon its commencement.

The land may be affected by any of the following plans under Section 64 of the Local Government Act 1993:

Development Servicing Plan for Water Supply, Sewerage and Stormwater 2017.

## 9A Biodiversity certified land

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

No. Council is not aware that the land is biodiversity certified under Part 8 of the Biodiversity Conservation Act 2016.

**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 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*, a statement to the effect (but only if the council has been notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

No. Council has not been notified of a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relating to the land.

**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 Native vegetation clearing set asides

If the land contains a set aside area under Section 60ZC of the *Local Land Services Act 2013*, a statement to that effect (but only if the council has been notified of the existence of the set aside area by the Local Land Services or it is registered in the public register under that section).

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No. Council has not been notified that the land contains an area set aside under Section 60ZC of the Local Land Services Act 2013

#### 11 Bush fire prone land

Whether or not some or all of the land is bush fire prone land

The land or part of the land is not bush fire prone land.

## 12 Property vegetation plans

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).

Council is not aware of a property vegetation plan under the Native Vegetation Act 2003 relating to the land.

## 13 Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order under the *Trees (Disputes Between Neighbours) Act 2006* has been made to carry out work in relation to a tree on the land (but only if Council has been notified of the order)?

No, an order under the Trees (Disputes Between Neighbours) Act 2006 has not been made.

## 14 Directions under Part 3A

Whether there is a direction by the Minister in force under the former Section 75P (2) (c1) of the Act.

No direction is in force.

## 15 Site compatibility certificates and conditions for seniors housing

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies:

(a) Whether or not Council is aware of a current site compatibility certificate (seniors housing), in respect of the proposed development on the land.

Council is not aware of any current site compatibility certificates (seniors housing) in respect of proposed development on the land.

(b) Whether or not 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 October 2007 in respect of the land.

No terms referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as conditions of consent to a development application for the land granted after 11 October 2007.

## 16 Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether or not Council is aware of a valid site compatibility certificate in respect of proposed development on the

Council is not aware of any valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments) in respect of proposed development on the land.

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

 Whether or not Council is aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

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Council is not aware of any current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

(2) Whether or not any terms of a kind referred to in clause 17 (1) or 38 (1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

No terms referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as conditions of consent to a development application in respect of the land.

## 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 Environmental Planning and Assessment Regulation 2000.

Not applicable.

#### 19 Site verification certificates

Whether or not Council is aware of a current site verification certificate, in respect of the land.

Council is not aware of a current site verification certificate in respect of the land.

## 20 Loose-fill asbestos insulation

Whether or not the land includes any residential premises (as defined in Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on a register of residential premises that contain or have contained loose-fill asbestos insulation.

No the land has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation.

## 21 Affected Building Notices and Building Product Orders

(1) Whether or not there is any affected building notice of which Council is aware that is in force in respect to the land

Council is not aware of any affected building notice that is in force in respect of the land.

(2) (a) Whether there is any building product rectification order of which Council is aware that is in force in respect of the land and has not been fully complied with.

Council is not aware of any affected building notice that is in force in respect of the land.

(b) Whether any notice of intention to make a building product rectification order of which Council is aware has been given in respect of the land and is outstanding.

Council is not aware of any intention to make a building product rectification order in respect of the land and is outstanding.

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#### **Additional Matters**

**Note.** The following matters are prescribed by Section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) Whether or not the land to which the certificate relates is significantly contaminated land within the meaning of that Act

The land is not significantly contaminated as at the date this certificate is issued.

(b) Whether or not the land to which the certificate relates is subject to a management order within the meaning of that Act.

The land is not subject to a management order as at the date this certificate is issued.

(c) Whether or not the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of the Act.

The land is not the subject of an approved voluntary management proposal as at the date this certificate is issued.

(d) Whether or not the land to which this certificate relates is subject to an ongoing maintenance order within the meaning of that Act.

The land is not subject to an ongoing maintenance order as at the date this certificate is issued.

(e) Whether or not 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 statement has been provided at any time to the local authority issuing the certificate.

The land is not the subject of a site audit statement as at the date this certificate is issued.

Legislation and Environmental Planning Instruments including Goulburn Mulwaree Local Environmental Plan 2009 and the Standard Instrument (Local Environmental Plans) Order 2006 can be found at <a href="https://www.legislation.nsw.gov.au">www.legislation.nsw.gov.au</a>

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1169/2021

# SECTION 10.7 (5) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

At the date of this certificate, Council is aware of the following matters affecting the above mentioned land (other than those matters set out in Schedule 4 of the *Environmental Planning and Assessment Regulation 2000*.

Α	Does the land have frontage to a Classified Road and consequently affected by Clauses 3.3.6, 4.1.7, 6.4.2 and 6.4.3 of Goulburn Mulwaree Development Control Plan 2009?
	No.
В	Is the land identified on the Height of Buildings Map and consequently affected by Clause 4.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
С	Is the land identified on the Floor Space Ratio Map and consequently affected by Clauses 4.4 and 4.5 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
D	Is the land located within 50 metres of a zone boundary and consequently affected by Clause 5.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	Yes.
E	Is a permit required from Council to clear vegetation under Part 3 of State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017?
	Yes.
	<b>Note:</b> The requirements for approval of vegetation clearing are varied depending on the location and uses of the land and the intention of the clearing. The question above relates only to whether a permit is required from Council under <i>State Environmental Planning Policy</i> (Vegetation in Non-Rural Areas) 2017.
F	Is the land identified on the Urban Release Area Map and consequently affected by Part 6 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
G	Is the land identified on the Terrestrial Biodiversity Map and consequently affected by Clause 7.2 Goulburn Mulwaree Local Environmental Plan 2009?
	No.

Some residential homes located in the Goulburn Mulwaree local government area have been identified as potentially containing loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1169/2021

Contact NSW Fair Trading for further information.

Date of Certificate 31 March 2021

for Warwick Bennett General Manager Goulburn Mulwaree Council

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## ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

## Notice to Prospective Purchasers/Residents of Urban Land in the Goulburn Mulwaree Local Government Area

Due to extensive growth and development within and alongside the urban areas of the Goulburn Mulwaree Local Government Area, non-residential land uses increasingly adjoin residential developments. These mixed land uses and zones have resulted in the potential for land use conflicts.

Goulburn Mulwaree Council supports the right of persons carrying out legitimate non-residential land use activities on urban land.

Council advises that whilst some land use activities will have formal consent from Council and/or other Government Agencies for operations, other activities may not require consent and are undertaken within the objectives of the land use zone.

Council will not support any action that will unreasonably interfere with the existing use or ongoing operation of land uses, particularly where such activities or uses are carried out in accordance with existing approvals, industry standards and relevant legislation. Many businesses and commercial enterprises carry out operations as required, early in the morning or late in the evening. These operations may involve vehicle movements, machinery noise and trade and supply activities which may impact upon the amenity of an area.

Prospective purchasers of land are encouraged to undertake their own enquiries into any operations or activities on adjoining, neighbouring or nearby properties that may cause noise or amenity impact. Intending purchasers are advised that legitimate land uses in urban areas may include, but are not limited to:

- Agricultural produce stores
- Building trade supply retailers
- Childcare centres and schools
- Concrete batching plants
- · Equine training and stabling facilities
- Food businesses
- Home businesses
- · Landscape supplies
- · Medical practices and services
- · Motor vehicle and/or heavy machinery workshops
- Motorsport facilities
- Nurseries
- · Nursing homes and aged care facilities
- Petrol stations
- · Public recreation facilities including aquatic centres, playgrounds and sporting fields
- Pubs and clubs
- · Recycling facilities
- · Retail suppliers/ shops
- · Steel fabrication and engineering
- Transport depots
- · Veterinary practices
- Vehicle retailers
- Waste management facilities
- · Water and waste water treatment facilities
- Wholesalers

In addition to the above, prospective purchasers are encouraged to attend locations of interest during different times of the day to determine the suitability of land for their intended use.

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## ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

## Notice to Prospective Purchasers/Residents of Rural Land in the Goulburn Mulwaree Local Government Area

Goulburn Mulwaree Council supports the rights of persons to carry out legitimate rural and agricultural uses and practices on rural land.

Goulburn Mulwaree Council will not support any action to unreasonably interfere with the legitimate rural and agricultural use of the land, where such activities or uses are carried out in accordance with industry standards, relevant regulations or approvals. Council wishes to point out that some rural activities will have required formal consent of Council and/or Government Agencies.

Legitimate activities are not limited to those listed and prospective purchasers are advised that they should be aware of them at the time of purchasing land. Many rural and agricultural practices, by necessity, are carried out very early in the morning or late into the evening. Intending purchasers are advised that legitimate rural and agricultural uses of the land may include:

- · Abattoir operations
- · Intensive livestock farming
- Dairies
- Livestock waste disposal systems
- · Stockyard activities
- Animal husbandry practices (castration, dehorning, mulesing etc.)
- · The presence of noisy animals, including crowing roosters
- Livestock movement on Council roads
- · Clearing and land cultivation
- · Bush fire hazard reduction burning
- · Burning of stubble for cropping operations
- Construction of fire breaks
- · Earthmoving including construction of dams, drains and contour banks
- · Construction of access roads and tracks
- · Pumping and irrigation
- · Harvesting operations
- · Grain receival operations
- · Transportation of rural produce
- · Fodder conservation
- · Chaff cutting operations
- Silage productions
- The growing of any agricultural crop or pasture species which may produce detectable aromas or pollens e.g. canola & lucerne
- Slashing and mowing of vegetation
- Logging
- · Spreading of fertilisers, including lime and gypsum
- · Crop spraying by both aerial and ground operations
- · Control and eradication of noxious weeds
- Authorised measures to control agricultural pests including baiting, ripping, fumigation and shooting
- Planting of trees and shrubs for woodblocks, windbreaks etc
- · Fencing construction and erection
- Tourist facilities
- · Manufacture and repair of agricultural machinery
- · Processing of rural commodities
- Council Landfill Facilities
- Council Sewerage Treatment Works.

In addition to the above, Council also wishes to highlight the land management responsibilities. In particular weeds management that accompany the ownership of rural land. In this regard, it is advisable to become familiar with Council's 'Rural Living Handbook' to ensure these responsibilities are met. The handbook is available on Council's website at <a href="www.goulburn.nsw.gov.au/Development/Plans-Strategies">www.goulburn.nsw.gov.au/Development/Plans-Strategies</a> or in hard copy at Customer Service.

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Goulburn Mulwaree Council Locked Bag 22

Civic Centre 184 - 194 Bourke Street Goulburn NSW 2580 t (02) 4823 4444 e council@goulburn.nsw.gov.au Goulburn NSW 2580 www.goulburn.nsw.gov.au

Contact: Planning & Environment

Dib Group Pty Ltd PO Box 388 LIDCOMBE NSW 1825

## **SECTION 10.7 (2) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

Receipt No.: 333376 Applicant's Reference: 20236

Certificate No: PLAN/1171/2021

## **DESCRIPTION OF PROPERTY**

14 George Street MARULAN NSW 2579 Lot 2 DP 1053945 Address:

Legal Description:

## Names of relevant planning instruments and DCP's

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

## State Environmental Planning Policies (SEPP)

SEPP No. 21 – Caravan Parks	SEPP (Building Sustainability Index: BASIX) 2004
SEPP No. 33 – Hazardous and Offensive Development	SEPP (Exempt and Complying Development Codes) 2008
SEPP No. 36 – Manufactured Home Estates	SEPP (Housing for Seniors or People with a Disability) 2004
SEPP No. 50 – Canal Estate Development	SEPP (Infrastructure) 2007
SEPP No. 55 – Remediation of Land	SEPP (Mining, Petroleum Production and Extractive Industries) 2007
SEPP No. 64 – Advertising and Signage	SEPP (Koala Habitat Protection) 2020
SEPP No. 65 - Design Quality of Residential Apartment Development	SEPP (State & Regional Development) 2011
SEPP No. 70 – Affordable Housing (Revised Schemes)	SEPP (State Significant Precincts) 2005
SEPP (Concurrences and Consents) 2018	SEPP (Affordable Rental Housing) 2009
SEPP (Primary Production and Rural Development) 2019	SEPP (Educational Establishments and Child Care Facilities) 2017
SEPP (Koala Habitat Protection) 2021	SEPP (Sydney Drinking Water Catchment) 2011
SEPP (Vegetation in Non-Rural Areas) 2017	

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## Local Environmental Plan (LEP)

Goulburn Mulwaree Local Environmental Plan 2009

(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 Secretary has notified the Council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

## Draft Amendments to the Goulburn Mulwaree Local Environmental Plan 2009

Draft Goulburn Mulwaree Local Environmental Plan 2009 (B6 Enterprise Corridor and Currawang)

• This amendment only affects: Lot 12 DP 581011, Lot 1 DP 995523, Lot 1 DP 38459, Lots 1 and 2 DP 1196725, Lots 2-6 DP 38459, Lot 22 DP 1113506, Lots 1 and 2 DP 845895, Lots 1 and 2 DP 153553, Lot Y DP 160746, Lot 33 DP 1062014, Lot B DP 152471, Lot A DP 163373, Lot 1 DP 841582, Lot 43 DP 28002, Lot 1 DP 1062993, Lots 1 and 2 DP 28002, Lot B DP 332337, Lot 51 DP 419287, Lot 20 DP 522273, Lot 1 DP 17363, Lots 131,141, 150, 154, 190 and 204 DP750047, Lot 1 DP 1259043, and Lot 1 DP 590583

Draft Goulburn Mulwaree Local Environmental Plan 2009 (37 Ross Street and 23 Brewer Street, Goulburn)

This amendment only affects Lots 100 and 101 DP 1214244

Draft Goulburn Mulwaree Local Environmental Plan 2009 (Racecourse Drive, Goulburn)

This amendment only affects Lots 1 and 2 DP 1225883, Lots 2, 3, 4 and 5 DP 1047328, Lots 1 and 2 DP 1081406, Lots 11 and 12 DP 1184187, Lots 84, 85, 86, 87 and 88 DP 1090102, Lots 1 and 2 DP 1114744, Lots 81 and 82 DP 1061444, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 DP 1269481

Proposed Natural Disasters Clause

## Draft State Environmental Planning Policies (SEPP's)

Draft Environment SEPP

ISEPP - Amendment - Health Infrastructure

Explanation of Intended Effect - Housing Diversity SEPP includes the consolidation and amendment of three housing related SEPPs:

- SEPP (Affordable Rental Housing) 2009,
- SEPP (Housing for Seniors and People with a Disability) 2004, and
- SEPP No 70 Affordable Housing (Revised Schemes).

Explanation of Intended Effect - Agritourism and Small Scale Agricultural Development outlines proposed amendments to the:

- Standard Instrument (Local Environmental Plans) Order 2006 (Standard Instrument LEP Order),
- State Environmental Planning Policy (Primary Production and Rural Development) 2019 (PPRD SEPP), and
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Codes SEPP).

Explanation of Intended Effect - Design and Place SEPP includes a proposal to:

- Repeal and replace SEPP No 65 Design Quality of Residential Apartment Development and SEPP (Building Sustainability Index: BASIX) 2004 (BASIX SEPP), and
- Consolidate design and place requirements in other SEPPs in the future.
- (3) The name of each development control plan that applies to the carrying out of development on the land.

Goulburn Mulwaree Development Control Plan 2009

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(4) In this clause, proposed environmental planning instruments includes a planning proposal for a LEP or a draft environmental planning instrument.

## 2 Zoning and land use under relevant LEP's

(a) The identity of the zone is IN1 General Industrial under the Goulburn Mulwaree Local Environmental Plan 2009.

- (b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent.
- (c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent.
- (d) The purposes for which the plan or instrument provides that development is prohibited within the zone.

The answers for parts (b) to (d) are set out in the land use table below:

## Zone IN1 General Industrial

#### 1 Objectives of zone

- · To provide a wide range of industrial and warehouse land uses.
- To encourage employment opportunities.
- · To minimise any adverse effect of industry on other land uses.
- · To support and protect industrial land for industrial uses.

#### 2 Permitted without consent

Roads

#### 3 Permitted with consent

Depots; Extensive agriculture; Freight transport facilities; Funeral homes; Garden centres; General industries; Hardware and building supplies; Industrial training facilities; Kiosks; Landscaping material supplies; Light industries; Markets; Medical centres; Neighbourhood shops; Oyster aquaculture; Places of public worship; Plant nurseries; Rural supplies; Tank-based aquaculture; Timber yards; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4.

## 4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Business premises; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Eco-tourist facilities; Educational establishments; Exhibition homes; Exhibition villages; Function centres; Health services facilities; Heavy industrial storage establishments; Heavy industries; Helipads; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Jetties; Marinas; Mooring pens; Moorings; Pond-based aquaculture Recreation facilities (major); Residential accommodation; Restricted premises; Retail premises; Tourist and visitor accommodation; Water recreation structures; Wharf or boating facilities.

- (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.
  No
- (f) Whether the land includes or comprises critical habitat.

No the land does not include or comprise critical habitat.

(g) Whether the land is located in a heritage conservation area.

The land is not within a heritage conservation area.

(h) Whether an item of environmental heritage is situated on the land.

An item of environmental heritage is not situated on the land

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#### 2A Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

Not applicable to the Goulburn Mulwaree Local Government Area.

## 3 Complying development

Whether or not the land to which the certificate relates is land on which complying development may be carried out under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008?

#### Housing Code

No. Complying development under the Housing Code cannot be undertaken on the land due to the zoning of the land.

## Low Rise Housing Diversity Code

No. Complying development under the Low Rise Housing Diversity Code cannot be undertaken on the land due to the zoning of the land.

## Greenfield Housing Code

No. Complying development under the Greenfield Housing Code cannot be undertaken on the land due to the land not being within a Greenfield Housing Code Area Map under the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

## Inland Code

No. Complying development under the Inland Code cannot be undertaken on the land due to the zoning of the

## Rural Housing Code

No. Complying development under the Rural Housing Code cannot be undertaken on the land due to the zoning of the land.

## **Housing Alterations Code**

Yes. Complying development under the Housing Alterations Code can be carried out on the land.

## General Development Code

Yes. Complying development under the General Development Code can be carried out on the land.

## Commercial and Industrial Alterations Code

Yes. Complying development under the Commercial and Industrial Alterations Code can be carried out on the land.

## Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying development under the Commercial and Industrial (New Buildings and Additions) Code can be carried out on the land.

## Container Recycling Facilities Code

Yes. Complying development under the Container Recycling Facilities Code can be carried out on the land.

## Subdivisions Code

Yes. Complying development under the Subdivisions Code can be carried out on the land.

## **Demolition Code**

Yes. Complying development under the Demolition Code can be carried out on the land.

## Fire Safety Code

Yes. Complying development under the Fire Safety Code can be carried out on the land.

Note. If the land is a lot to which the Housing Code, Rural Housing Code, Housing Alterations Code, General Development Code, Commercial and Industrial Alterations Code or Commercial and Industrial (New Buildings and Additions) Code (within the meaning of the State Environmental Planning Policy (Exempt and Complying

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Development Codes) 2008 applies, complying development may be carried out on any part of the lot that is not affected by the provisions of Clause 1.19 of that Policy.

## 4B Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

Not applicable to the Goulburn Mulwaree Local Government Area.

#### 5 Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of Section 15 of the *Mine Subsidence Compensation Act 1961*.

No

## 6 Road widening and road realignment

Whether or not the land is affected by Road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993; or
- (b) any environmental planning instrument; or
- (c) any resolution of the Council.

No.

## 7 Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by Policy:

- (a) adopted by the council, or
- (b) adopted by any other public authority,

that restricts 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)?

No.

## 7A Flood related development controls information

(1) Whether or not development on the land or part of the land for the purpose of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purpose of group homes or seniors housing) is subject to flood related development controls.

No

**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009*. The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003*. If so, Council has not undertaken a flood study outside the flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No

Page **5** of **13** 

**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009.* The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003.* If so, Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

#### 8 Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument makes provision in relation to the acquisition of the land by a public authority, as referred to in Section 3.15 of the Act?

No.

#### 9 Contribution plans

The name of each contributions plan applying to the land.

Goulburn Mulwaree Section 94 Contributions Plan 2009 and/ or Section 94A Development Contributions Plan 2009\*

\* The Goulburn Mulwaree Local Infrastructure Contributions Plan 2021 (s.7.11 and s.7.12 plan) commences on 1 June 2021 and repeals the above two Plans upon its commencement.

The land may be affected by any of the following plans under Section 64 of the Local Government Act 1993:

Development Servicing Plan for Water Supply, Sewerage and Stormwater 2017.

## 9A Biodiversity certified land

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

No. Council is not aware that the land is biodiversity certified under Part 8 of the Biodiversity Conservation Act 2016.

**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 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*, a statement to the effect (but only if the council has been notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

No. Council has not been notified of a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relating to the land.

**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 Native vegetation clearing set asides

If the land contains a set aside area under Section 60ZC of the *Local Land Services Act 2013*, a statement to that effect (but only if the council has been notified of the existence of the set aside area by the Local Land Services or it is registered in the public register under that section).

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No. Council has not been notified that the land contains an area set aside under Section 60ZC of the Local Land Services Act 2013

#### 11 Bush fire prone land

Whether or not some or all of the land is bush fire prone land

The land or part of the land is not bush fire prone land.

## 12 Property vegetation plans

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).

Council is not aware of a property vegetation plan under the Native Vegetation Act 2003 relating to the land.

## 13 Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order under the *Trees (Disputes Between Neighbours) Act 2006* has been made to carry out work in relation to a tree on the land (but only if Council has been notified of the order)?

No, an order under the Trees (Disputes Between Neighbours) Act 2006 has not been made.

## 14 Directions under Part 3A

Whether there is a direction by the Minister in force under the former Section 75P (2) (c1) of the Act.

No direction is in force.

## 15 Site compatibility certificates and conditions for seniors housing

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies:

(a) Whether or not Council is aware of a current site compatibility certificate (seniors housing), in respect of the proposed development on the land.

Council is not aware of any current site compatibility certificates (seniors housing) in respect of proposed development on the land.

(b) Whether or not 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 October 2007 in respect of the land.

No terms referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as conditions of consent to a development application for the land granted after 11 October 2007.

## 16 Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether or not Council is aware of a valid site compatibility certificate in respect of proposed development on the

Council is not aware of any valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments) in respect of proposed development on the land.

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

 Whether or not Council is aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

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Council is not aware of any current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

(2) Whether or not any terms of a kind referred to in clause 17 (1) or 38 (1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

No terms referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as conditions of consent to a development application in respect of the land.

## 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 Environmental Planning and Assessment Regulation 2000.

Not applicable.

#### 19 Site verification certificates

Whether or not Council is aware of a current site verification certificate, in respect of the land.

Council is not aware of a current site verification certificate in respect of the land.

## 20 Loose-fill asbestos insulation

Whether or not the land includes any residential premises (as defined in Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on a register of residential premises that contain or have contained loose-fill asbestos insulation.

No the land has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation.

## 21 Affected Building Notices and Building Product Orders

(1) Whether or not there is any affected building notice of which Council is aware that is in force in respect to the land

Council is not aware of any affected building notice that is in force in respect of the land.

(2) (a) Whether there is any building product rectification order of which Council is aware that is in force in respect of the land and has not been fully complied with.

Council is not aware of any affected building notice that is in force in respect of the land.

(b) Whether any notice of intention to make a building product rectification order of which Council is aware has been given in respect of the land and is outstanding.

Council is not aware of any intention to make a building product rectification order in respect of the land and is outstanding.

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#### **Additional Matters**

**Note.** The following matters are prescribed by Section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) Whether or not the land to which the certificate relates is significantly contaminated land within the meaning of that Act

The land is not significantly contaminated as at the date this certificate is issued.

(b) Whether or not the land to which the certificate relates is subject to a management order within the meaning of that Act.

The land is not subject to a management order as at the date this certificate is issued.

(c) Whether or not the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of the Act.

The land is not the subject of an approved voluntary management proposal as at the date this certificate is issued.

(d) Whether or not the land to which this certificate relates is subject to an ongoing maintenance order within the meaning of that Act.

The land is not subject to an ongoing maintenance order as at the date this certificate is issued.

(e) Whether or not 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 statement has been provided at any time to the local authority issuing the certificate.

The land is not the subject of a site audit statement as at the date this certificate is issued.

Legislation and Environmental Planning Instruments including Goulburn Mulwaree Local Environmental Plan 2009 and the Standard Instrument (Local Environmental Plans) Order 2006 can be found at <a href="https://www.legislation.nsw.gov.au">www.legislation.nsw.gov.au</a>

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1171/2021

# SECTION 10.7 (5) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

At the date of this certificate, Council is aware of the following matters affecting the above mentioned land (other than those matters set out in Schedule 4 of the *Environmental Planning and Assessment Regulation 2000*.

Α	Does the land have frontage to a Classified Road and consequently affected by Clauses 3.3.6, 4.1.7, 6.4.2 and 6.4.3 of Goulburn Mulwaree Development Control Plan 2009?
	No.
В	Is the land identified on the Height of Buildings Map and consequently affected by Clause 4.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
С	Is the land identified on the Floor Space Ratio Map and consequently affected by Clauses 4.4 and 4.5 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
D	Is the land located within 50 metres of a zone boundary and consequently affected by Clause 5.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	Yes.
E	Is a permit required from Council to clear vegetation under Part 3 of State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017?
	Yes.
	<b>Note:</b> The requirements for approval of vegetation clearing are varied depending on the location and uses of the land and the intention of the clearing. The question above relates only to whether a permit is required from Council under <i>State Environmental Planning Policy</i> (Vegetation in Non-Rural Areas) 2017.
F	Is the land identified on the Urban Release Area Map and consequently affected by Part 6 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
G	Is the land identified on the Terrestrial Biodiversity Map and consequently affected by Clause 7.2 Goulburn Mulwaree Local Environmental Plan 2009?
	No.

Some residential homes located in the Goulburn Mulwaree local government area have been identified as potentially containing loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1171/2021

Contact NSW Fair Trading for further information.

Date of Certificate 31 March 2021

for Warwick Bennett General Manager Goulburn Mulwaree Council

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## ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

## Notice to Prospective Purchasers/Residents of Urban Land in the Goulburn Mulwaree Local Government Area

Due to extensive growth and development within and alongside the urban areas of the Goulburn Mulwaree Local Government Area, non-residential land uses increasingly adjoin residential developments. These mixed land uses and zones have resulted in the potential for land use conflicts.

Goulburn Mulwaree Council supports the right of persons carrying out legitimate non-residential land use activities on urban land.

Council advises that whilst some land use activities will have formal consent from Council and/or other Government Agencies for operations, other activities may not require consent and are undertaken within the objectives of the land use zone.

Council will not support any action that will unreasonably interfere with the existing use or ongoing operation of land uses, particularly where such activities or uses are carried out in accordance with existing approvals, industry standards and relevant legislation. Many businesses and commercial enterprises carry out operations as required, early in the morning or late in the evening. These operations may involve vehicle movements, machinery noise and trade and supply activities which may impact upon the amenity of an area.

Prospective purchasers of land are encouraged to undertake their own enquiries into any operations or activities on adjoining, neighbouring or nearby properties that may cause noise or amenity impact. Intending purchasers are advised that legitimate land uses in urban areas may include, but are not limited to:

- · Agricultural produce stores
- Building trade supply retailers
- Childcare centres and schools
- Concrete batching plants
- · Equine training and stabling facilities
- Food businesses
- Home businesses
- · Landscape supplies
- · Medical practices and services
- · Motor vehicle and/or heavy machinery workshops
- · Motorsport facilities
- Nurseries
- · Nursing homes and aged care facilities
- Petrol stations
- · Public recreation facilities including aquatic centres, playgrounds and sporting fields
- Pubs and clubs
- · Recycling facilities
- · Retail suppliers/ shops
- · Steel fabrication and engineering
- Transport depots
- · Veterinary practices
- Vehicle retailers
- Waste management facilities
- · Water and waste water treatment facilities
- Wholesalers

In addition to the above, prospective purchasers are encouraged to attend locations of interest during different times of the day to determine the suitability of land for their intended use.

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## ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

## Notice to Prospective Purchasers/Residents of Rural Land in the Goulburn Mulwaree Local Government Area

Goulburn Mulwaree Council supports the rights of persons to carry out legitimate rural and agricultural uses and practices on rural land.

Goulburn Mulwaree Council will not support any action to unreasonably interfere with the legitimate rural and agricultural use of the land, where such activities or uses are carried out in accordance with industry standards, relevant regulations or approvals. Council wishes to point out that some rural activities will have required formal consent of Council and/or Government Agencies.

Legitimate activities are not limited to those listed and prospective purchasers are advised that they should be aware of them at the time of purchasing land. Many rural and agricultural practices, by necessity, are carried out very early in the morning or late into the evening. Intending purchasers are advised that legitimate rural and agricultural uses of the land may include:

- · Abattoir operations
- · Intensive livestock farming
- Dairies
- Livestock waste disposal systems
- Stockyard activities
- Animal husbandry practices (castration, dehorning, mulesing etc.)
- · The presence of noisy animals, including crowing roosters
- Livestock movement on Council roads
- · Clearing and land cultivation
- · Bush fire hazard reduction burning
- · Burning of stubble for cropping operations
- Construction of fire breaks
- · Earthmoving including construction of dams, drains and contour banks
- · Construction of access roads and tracks
- · Pumping and irrigation
- · Harvesting operations
- · Grain receival operations
- · Transportation of rural produce
- · Fodder conservation
- · Chaff cutting operations
- Silage productions
- The growing of any agricultural crop or pasture species which may produce detectable aromas
  or pollens e.g. canola & lucerne
- Slashing and mowing of vegetation
- Logging
- · Spreading of fertilisers, including lime and gypsum
- · Crop spraying by both aerial and ground operations
- · Control and eradication of noxious weeds
- Authorised measures to control agricultural pests including baiting, ripping, fumigation and shooting
- Planting of trees and shrubs for woodblocks, windbreaks etc
- · Fencing construction and erection
- Tourist facilities
- · Manufacture and repair of agricultural machinery
- · Processing of rural commodities
- Council Landfill Facilities
- Council Sewerage Treatment Works.

In addition to the above, Council also wishes to highlight the land management responsibilities. In particular weeds management that accompany the ownership of rural land. In this regard, it is advisable to become familiar with Council's 'Rural Living Handbook' to ensure these responsibilities are met. The handbook is available on Council's website at <a href="www.goulburn.nsw.gov.au/Development/Plans-Strategies">www.goulburn.nsw.gov.au/Development/Plans-Strategies</a> or in hard copy at Customer Service.

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Goulburn Mulwaree Council Locked Bag 22 Goulburn NSW 2580

Civic Centre
184 - 194 Bourke Street
Goulburn NSW 2580
t (02) 4823 4444
e council@goulburn.nsw.gov.au
www.goulburn.nsw.gov.au

Contact: Planning & Environment

Dib Group Pty Ltd PO Box 388 LIDCOMBE NSW 1825

# SECTION 10.7 (2) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Receipt No.: 333376 Applicant's Reference: 20236

Certificate No: PLAN/1170/2021

## **DESCRIPTION OF PROPERTY**

Address: 16 George Street MARULAN NSW 2579
Legal Description: Lot 3 DP 1053945 Parish Marulan

## Names of relevant planning instruments and DCP's

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

## State Environmental Planning Policies (SEPP)

SEPP No. 21 – Caravan Parks	SEPP (Building Sustainability Index: BASIX) 2004
SEPP No. 33 – Hazardous and Offensive Development	SEPP (Exempt and Complying Development Codes) 2008
SEPP No. 36 – Manufactured Home Estates	SEPP (Housing for Seniors or People with a Disability) 2004
SEPP No. 50 – Canal Estate Development	SEPP (Infrastructure) 2007
SEPP No. 55 – Remediation of Land	SEPP (Mining, Petroleum Production and Extractive Industries) 2007
SEPP No. 64 – Advertising and Signage	SEPP (Koala Habitat Protection) 2020
SEPP No. 65 - Design Quality of Residential Apartment Development	SEPP (State & Regional Development) 2011
SEPP No. 70 – Affordable Housing (Revised Schemes)	SEPP (State Significant Precincts) 2005
SEPP (Concurrences and Consents) 2018	SEPP (Affordable Rental Housing) 2009
SEPP (Primary Production and Rural Development) 2019	SEPP (Educational Establishments and Child Care Facilities) 2017
SEPP (Koala Habitat Protection) 2021	SEPP (Sydney Drinking Water Catchment) 2011
SEPP (Vegetation in Non-Rural Areas) 2017	

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## Local Environmental Plan (LEP)

Goulburn Mulwaree Local Environmental Plan 2009

(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 Secretary has notified the Council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

## Draft Amendments to the Goulburn Mulwaree Local Environmental Plan 2009

Draft Goulburn Mulwaree Local Environmental Plan 2009 (B6 Enterprise Corridor and Currawang)

• This amendment only affects: Lot 12 DP 581011, Lot 1 DP 995523, Lot 1 DP 38459, Lots 1 and 2 DP 1196725, Lots 2-6 DP 38459, Lot 22 DP 1113506, Lots 1 and 2 DP 845895, Lots 1 and 2 DP 153553, Lot Y DP 160746, Lot 33 DP 1062014, Lot B DP 152471, Lot A DP 163373, Lot 1 DP 841582, Lot 43 DP 28002, Lot 1 DP 1062993, Lots 1 and 2 DP 28002, Lot B DP 332337, Lot 51 DP 419287, Lot 20 DP 522273, Lot 1 DP 17363, Lots 131,141, 150, 154, 190 and 204 DP750047, Lot 1 DP 1259043, and Lot 1 DP 590583

Draft Goulburn Mulwaree Local Environmental Plan 2009 (37 Ross Street and 23 Brewer Street, Goulburn)

This amendment only affects Lots 100 and 101 DP 1214244

Draft Goulburn Mulwaree Local Environmental Plan 2009 (Racecourse Drive, Goulburn)

This amendment only affects Lots 1 and 2 DP 1225883, Lots 2, 3, 4 and 5 DP 1047328, Lots 1 and 2 DP 1081406, Lots 11 and 12 DP 1184187, Lots 84, 85, 86, 87 and 88 DP 1090102, Lots 1 and 2 DP 1114744, Lots 81 and 82 DP 1061444, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 DP 1269481

Proposed Natural Disasters Clause

## Draft State Environmental Planning Policies (SEPP's)

Draft Environment SEPP

ISEPP - Amendment - Health Infrastructure

Explanation of Intended Effect - Housing Diversity SEPP includes the consolidation and amendment of three housing related SEPPs:

- SEPP (Affordable Rental Housing) 2009,
- SEPP (Housing for Seniors and People with a Disability) 2004, and
- SEPP No 70 Affordable Housing (Revised Schemes).

Explanation of Intended Effect - Agritourism and Small Scale Agricultural Development outlines proposed amendments to the:

- Standard Instrument (Local Environmental Plans) Order 2006 (Standard Instrument LEP Order),
- State Environmental Planning Policy (Primary Production and Rural Development) 2019 (PPRD SEPP), and
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 (Codes SEPP).

Explanation of Intended Effect - Design and Place SEPP includes a proposal to:

- Repeal and replace SEPP No 65 Design Quality of Residential Apartment Development and SEPP (Building Sustainability Index: BASIX) 2004 (BASIX SEPP), and
- Consolidate design and place requirements in other SEPPs in the future.
- (3) The name of each development control plan that applies to the carrying out of development on the land.

Goulburn Mulwaree Development Control Plan 2009

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(4) In this clause, proposed environmental planning instruments includes a planning proposal for a LEP or a draft environmental planning instrument.

## 2 Zoning and land use under relevant LEP's

(a) The identity of the zone is IN1 General Industrial

under the Goulburn Mulwaree Local Environmental Plan 2009.

- (b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent.
- (c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent.
- (d) The purposes for which the plan or instrument provides that development is prohibited within the zone.

The answers for parts (b) to (d) are set out in the land use table below:

## Zone IN1 General Industrial

#### 1 Objectives of zone

- · To provide a wide range of industrial and warehouse land uses.
- To encourage employment opportunities.
- · To minimise any adverse effect of industry on other land uses.
- · To support and protect industrial land for industrial uses.

#### 2 Permitted without consent

Roads

#### 3 Permitted with consent

Depots; Extensive agriculture; Freight transport facilities; Funeral homes; Garden centres; General industries; Hardware and building supplies; Industrial training facilities; Kiosks; Landscaping material supplies; Light industries; Markets; Medical centres; Neighbourhood shops; Oyster aquaculture; Places of public worship; Plant nurseries; Rural supplies; Tank-based aquaculture; Timber yards; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4.

## 4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Business premises; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Eco-tourist facilities; Educational establishments; Exhibition homes; Exhibition villages; Function centres; Health services facilities; Heavy industrial storage establishments; Heavy industries; Helipads; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Jetties; Marinas; Mooring pens; Moorings; Pond-based aquaculture Recreation facilities (major); Residential accommodation; Restricted premises; Retail premises; Tourist and visitor accommodation; Water recreation structures; Wharf or boating facilities.

- (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.
  No
- (f) Whether the land includes or comprises critical habitat.

No the land does not include or comprise critical habitat.

(g) Whether the land is located in a heritage conservation area.

The land is not within a heritage conservation area.

(h) Whether an item of environmental heritage is situated on the land.

An item of environmental heritage is not situated on the land

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#### 2A Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

Not applicable to the Goulburn Mulwaree Local Government Area.

## 3 Complying development

Whether or not the land to which the certificate relates is land on which complying development may be carried out under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008?

#### Housing Code

No. Complying development under the Housing Code cannot be undertaken on the land due to the zoning of the land.

## Low Rise Housing Diversity Code

No. Complying development under the Low Rise Housing Diversity Code cannot be undertaken on the land due to the zoning of the land.

## Greenfield Housing Code

No. Complying development under the Greenfield Housing Code cannot be undertaken on the land due to the land not being within a Greenfield Housing Code Area Map under the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

## Inland Code

No. Complying development under the Inland Code cannot be undertaken on the land due to the zoning of the

## Rural Housing Code

No. Complying development under the Rural Housing Code cannot be undertaken on the land due to the zoning of the land.

## **Housing Alterations Code**

Yes. Complying development under the Housing Alterations Code can be carried out on the land.

## General Development Code

Yes. Complying development under the General Development Code can be carried out on the land.

## Commercial and Industrial Alterations Code

Yes. Complying development under the Commercial and Industrial Alterations Code can be carried out on the land.

## Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying development under the Commercial and Industrial (New Buildings and Additions) Code can be carried out on the land.

## Container Recycling Facilities Code

Yes. Complying development under the Container Recycling Facilities Code can be carried out on the land.

## Subdivisions Code

Yes. Complying development under the Subdivisions Code can be carried out on the land.

## **Demolition Code**

Yes. Complying development under the Demolition Code can be carried out on the land.

## Fire Safety Code

Yes. Complying development under the Fire Safety Code can be carried out on the land.

Note. If the land is a lot to which the Housing Code, Rural Housing Code, Housing Alterations Code, General Development Code, Commercial and Industrial Alterations Code or Commercial and Industrial (New Buildings and Additions) Code (within the meaning of the State Environmental Planning Policy (Exempt and Complying

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Development Codes) 2008 applies, complying development may be carried out on any part of the lot that is not affected by the provisions of Clause 1.19 of that Policy.

## 4B Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

Not applicable to the Goulburn Mulwaree Local Government Area.

#### 5 Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of Section 15 of the Mine Subsidence Compensation Act 1961.

No

## 6 Road widening and road realignment

Whether or not the land is affected by Road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993; or
- (b) any environmental planning instrument; or
- (c) any resolution of the Council.

No.

## 7 Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by Policy:

- (a) adopted by the council, or
- (b) adopted by any other public authority,

that restricts 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)?

No.

## 7A Flood related development controls information

(1) Whether or not development on the land or part of the land for the purpose of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purpose of group homes or seniors housing) is subject to flood related development controls.

No

**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009*. The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003*. If so, Council has not undertaken a flood study outside the flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No

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**Note:** This land is outside the flood planning area on the flood planning map referred in Clause 7.1 *Goulburn Mulwaree Local Environmental Plan 2009.* The land may also be outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2003.* If so, Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

**Note:** This land is outside the flood study area referred to in the *Wollondilly and Mulwaree Rivers Flood Study 2016.* Council has not undertaken a flood study on the land. You should make your own enquiries as to the potential for periodic inundation and flooding events.

#### 8 Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument makes provision in relation to the acquisition of the land by a public authority, as referred to in Section 3.15 of the Act?

No.

## 9 Contribution plans

The name of each contributions plan applying to the land.

Goulburn Mulwaree Section 94 Contributions Plan 2009 and/ or Section 94A Development Contributions Plan 2009\*

\* The Goulburn Mulwaree Local Infrastructure Contributions Plan 2021 (s.7.11 and s.7.12 plan) commences on 1 June 2021 and repeals the above two Plans upon its commencement.

The land may be affected by any of the following plans under Section 64 of the Local Government Act 1993:

Development Servicing Plan for Water Supply, Sewerage and Stormwater 2017.

## 9A Biodiversity certified land

If the land is biodiversity certified land under Part 8 of the Biodiversity Conservation Act 2016, a statement to that effect.

No. Council is not aware that the land is biodiversity certified under Part 8 of the Biodiversity Conservation Act 2016.

**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 Biodiversity stewardship sites

If the land is a biodiversity stewardship site under a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016*, a statement to the effect (but only if the council has been notified of the existence of the agreement by the Chief Executive of the Office of Environment and Heritage).

No. Council has not been notified of a biodiversity stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relating to the land.

**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 Native vegetation clearing set asides

If the land contains a set aside area under Section 60ZC of the *Local Land Services Act 2013*, a statement to that effect (but only if the council has been notified of the existence of the set aside area by the Local Land Services or it is registered in the public register under that section).

Page 6 of 13

No. Council has not been notified that the land contains an area set aside under Section 60ZC of the Local Land Services Act 2013

#### 11 Bush fire prone land

Whether or not some or all of the land is bush fire prone land

The land or part of the land is not bush fire prone land.

## 12 Property vegetation plans

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).

Council is not aware of a property vegetation plan under the Native Vegetation Act 2003 relating to the land.

## 13 Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order under the *Trees (Disputes Between Neighbours) Act 2006* has been made to carry out work in relation to a tree on the land (but only if Council has been notified of the order)?

No, an order under the Trees (Disputes Between Neighbours) Act 2006 has not been made.

## 14 Directions under Part 3A

Whether there is a direction by the Minister in force under the former Section 75P (2) (c1) of the Act.

No direction is in force.

## 15 Site compatibility certificates and conditions for seniors housing

If the land is land to which State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 applies:

(a) Whether or not Council is aware of a current site compatibility certificate (seniors housing), in respect of the proposed development on the land.

Council is not aware of any current site compatibility certificates (seniors housing) in respect of proposed development on the land.

(b) Whether or not 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 October 2007 in respect of the land.

No terms referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as conditions of consent to a development application for the land granted after 11 October 2007.

## 16 Site compatibility certificates for infrastructure, schools or TAFE establishments

Whether or not Council is aware of a valid site compatibility certificate in respect of proposed development on the

Council is not aware of any valid site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments) in respect of proposed development on the land.

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

(1) Whether or not Council is aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

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Council is not aware of any current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

(2) Whether or not any terms of a kind referred to in clause 17 (1) or 38 (1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

No terms referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as conditions of consent to a development application in respect of the land.

## 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 Environmental Planning and Assessment Regulation 2000.

Not applicable.

#### 19 Site verification certificates

Whether or not Council is aware of a current site verification certificate, in respect of the land.

Council is not aware of a current site verification certificate in respect of the land.

#### 20 Loose-fill asbestos insulation

Whether or not the land includes any residential premises (as defined in Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on a register of residential premises that contain or have contained loose-fill asbestos insulation.

No the land has not been identified in the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation.

## 21 Affected Building Notices and Building Product Orders

(1) Whether or not there is any affected building notice of which Council is aware that is in force in respect to the land

Council is not aware of any affected building notice that is in force in respect of the land.

(2) (a) Whether there is any building product rectification order of which Council is aware that is in force in respect of the land and has not been fully complied with.

Council is not aware of any affected building notice that is in force in respect of the land.

(b) Whether any notice of intention to make a building product rectification order of which Council is aware has been given in respect of the land and is outstanding.

Council is not aware of any intention to make a building product rectification order in respect of the land and is outstanding.

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#### **Additional Matters**

**Note.** The following matters are prescribed by Section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

(a) Whether or not the land to which the certificate relates is significantly contaminated land within the meaning of that Act

The land is not significantly contaminated as at the date this certificate is issued.

(b) Whether or not the land to which the certificate relates is subject to a management order within the meaning of that Act.

The land is not subject to a management order as at the date this certificate is issued.

(c) Whether or not the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of the Act.

The land is not the subject of an approved voluntary management proposal as at the date this certificate is issued.

(d) Whether or not the land to which this certificate relates is subject to an ongoing maintenance order within the meaning of that Act.

The land is not subject to an ongoing maintenance order as at the date this certificate is issued.

(e) Whether or not 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 statement has been provided at any time to the local authority issuing the certificate.

The land is not the subject of a site audit statement as at the date this certificate is issued.

Legislation and Environmental Planning Instruments including Goulburn Mulwaree Local Environmental Plan 2009 and the Standard Instrument (Local Environmental Plans) Order 2006 can be found at <a href="https://www.legislation.nsw.gov.au">www.legislation.nsw.gov.au</a>

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1170/2021

# SECTION 10.7 (5) PLANNING CERTIFICATE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

At the date of this certificate, Council is aware of the following matters affecting the above mentioned land (other than those matters set out in Schedule 4 of the *Environmental Planning and Assessment Regulation 2000*.

Α	Does the land have frontage to a Classified Road and consequently affected by Clauses 3.3.6, 4.1.7, 6.4.2 and 6.4.3 of Goulburn Mulwaree Development Control Plan 2009?
	No.
В	Is the land identified on the Height of Buildings Map and consequently affected by Clause 4.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
С	Is the land identified on the Floor Space Ratio Map and consequently affected by Clauses 4.4 and 4.5 o Goulburn Mulwaree Local Environmental Plan 2009?
	No.
D	Is the land located within 50 metres of a zone boundary and consequently affected by Clause 5.3 of Goulburn Mulwaree Local Environmental Plan 2009?
	Yes.
E	Is a permit required from Council to clear vegetation under Part 3 of State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017?
	Yes.
	<b>Note:</b> The requirements for approval of vegetation clearing are varied depending on the location and uses of the land and the intention of the clearing. The question above relates only to whether a permit is required from Council under <i>State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.</i>
F	Is the land identified on the Urban Release Area Map and consequently affected by Part 6 of Goulburn Mulwaree Local Environmental Plan 2009?
	No.
G	Is the land identified on the Terrestrial Biodiversity Map and consequently affected by Clause 7.2 Goulburn Mulwaree Local Environmental Plan 2009?
	No.

Some residential homes located in the Goulburn Mulwaree local government area have been identified as potentially containing loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

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## SECTION 10.7 (2) & (5) PLANNING CERTIFICATE PLAN/1170/2021

Contact NSW Fair Trading for further information.

Date of Certificate 31 March 2021

for Warwick Bennett General Manager Goulburn Mulwaree Council

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#### ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

# Notice to Prospective Purchasers/Residents of Urban Land in the Goulburn Mulwaree Local Government Area

Due to extensive growth and development within and alongside the urban areas of the Goulburn Mulwaree Local Government Area, non-residential land uses increasingly adjoin residential developments. These mixed land uses and zones have resulted in the potential for land use conflicts.

Goulburn Mulwaree Council supports the right of persons carrying out legitimate non-residential land use activities on urban land.

Council advises that whilst some land use activities will have formal consent from Council and/or other Government Agencies for operations, other activities may not require consent and are undertaken within the objectives of the land use zone.

Council will not support any action that will unreasonably interfere with the existing use or ongoing operation of land uses, particularly where such activities or uses are carried out in accordance with existing approvals, industry standards and relevant legislation. Many businesses and commercial enterprises carry out operations as required, early in the morning or late in the evening. These operations may involve vehicle movements, machinery noise and trade and supply activities which may impact upon the amenity of an area.

Prospective purchasers of land are encouraged to undertake their own enquiries into any operations or activities on adjoining, neighbouring or nearby properties that may cause noise or amenity impact. Intending purchasers are advised that legitimate land uses in urban areas may include, but are not limited to:

- · Agricultural produce stores
- Building trade supply retailers
- Childcare centres and schools
- Concrete batching plants
- · Equine training and stabling facilities
- Food businesses
- Home businesses
- · Landscape supplies
- · Medical practices and services
- · Motor vehicle and/or heavy machinery workshops
- · Motorsport facilities
- Nurseries
- · Nursing homes and aged care facilities
- Petrol stations
- · Public recreation facilities including aquatic centres, playgrounds and sporting fields
- Pubs and clubs
- · Recycling facilities
- · Retail suppliers/ shops
- · Steel fabrication and engineering
- Transport depots
- Veterinary practices
- Vehicle retailers
- Waste management facilities
- · Water and waste water treatment facilities
- Wholesalers

In addition to the above, prospective purchasers are encouraged to attend locations of interest during different times of the day to determine the suitability of land for their intended use.

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#### ADDITIONAL INFORMATION THAT DOES NOT FORM PART OF THE CERTIFICATE

#### Notice to Prospective Purchasers/Residents of Rural Land in the Goulburn Mulwaree Local Government Area

Goulburn Mulwaree Council supports the rights of persons to carry out legitimate rural and agricultural uses and practices on rural land.

Goulburn Mulwaree Council will not support any action to unreasonably interfere with the legitimate rural and agricultural use of the land, where such activities or uses are carried out in accordance with industry standards, relevant regulations or approvals. Council wishes to point out that some rural activities will have required formal consent of Council and/or Government Agencies.

Legitimate activities are not limited to those listed and prospective purchasers are advised that they should be aware of them at the time of purchasing land. Many rural and agricultural practices, by necessity, are carried out very early in the morning or late into the evening. Intending purchasers are advised that legitimate rural and agricultural uses of the land may include:

- · Abattoir operations
- · Intensive livestock farming
- Dairies
- Livestock waste disposal systems
- Stockyard activities
- Animal husbandry practices (castration, dehorning, mulesing etc.)
- · The presence of noisy animals, including crowing roosters
- Livestock movement on Council roads
- · Clearing and land cultivation
- · Bush fire hazard reduction burning
- · Burning of stubble for cropping operations
- Construction of fire breaks
- · Earthmoving including construction of dams, drains and contour banks
- · Construction of access roads and tracks
- · Pumping and irrigation
- · Harvesting operations
- · Grain receival operations
- · Transportation of rural produce
- · Fodder conservation
- · Chaff cutting operations
- Silage productions
- The growing of any agricultural crop or pasture species which may produce detectable aromas or pollens e.g. canola & lucerne
- Slashing and mowing of vegetation
- Logging
- · Spreading of fertilisers, including lime and gypsum
- · Crop spraying by both aerial and ground operations
- Control and eradication of noxious weeds
- Authorised measures to control agricultural pests including baiting, ripping, fumigation and shooting
- Planting of trees and shrubs for woodblocks, windbreaks etc
- · Fencing construction and erection
- Tourist facilities
- · Manufacture and repair of agricultural machinery
- · Processing of rural commodities
- Council Landfill Facilities
- Council Sewerage Treatment Works.

In addition to the above, Council also wishes to highlight the land management responsibilities. In particular weeds management that accompany the ownership of rural land. In this regard, it is advisable to become familiar with Council's 'Rural Living Handbook' to ensure these responsibilities are met. The handbook is available on Council's website at <a href="www.goulburn.nsw.gov.au/Development/Plans-Strategies">www.goulburn.nsw.gov.au/Development/Plans-Strategies</a> or in hard copy at Customer Service.

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# **APPENDIX D**

Certificates of Analysis

SGS				С	HAI	N C	F C	UST	OD	Y 8	ANA	LY	SIS I	REQ	UES.	T <sup>*</sup>				F	Page	l_ofl	
SGS Environmental S Unit 16, 33 Maddox St Alexandria NSW 2015 Telephone No: (02) 85 Facsimile No: (02) 85 Email: au.samplereceipt.sy	reet 940400 940499	Compa Addres Contac	S.		Nic	Riversh	sulting verstor one altub	NS:	w, i	e,	5		Pure Res Tele		Order No quired B Ic Onc)	y wante	ext 041	day day	37	days 5 4		455 48	24 HR 8 502
Email: au.sampiereceipt.sy	uney@sgs.com		T		U).		200				П	T	1	all Nest	1103.	114	uch	Willia	T		<u> </u>		
Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	TRH	BITER	Heade	DAM												1	
MUS							1	1	1	1													
MV2		2																SE	22	03			
Relinquished By:		TD	ate/Tim	e:					L	1	Receive	By:	600-	m()	76	لسنتا		ate/Tim	ne 2	16	771	a-	123
Relinquished By:		D	ate/Tim	e:	_	_					Receive	By:	UCA	ge	2401		C	ate/Tin	ne	101			1 1
Samples Intact: (es)No		Te	empera	ture:	Ambi	ent /	hilled				Sample					7.7	- 1	aborato					
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#### ANALYTICAL REPORT





CLIENT DETAILS

LABORATORY DETAILS

Admin Contact

NEO CONSULTING PTY LTD Client

PO BOX 279 Address

RIVERSTONE NSW 2765

Huong Crawford Manager Laboratory Address

SGS Alexandria Environmental Unit 16, 33 Maddox St

+61 2 8594 0400

Alexandria NSW 2015

Telephone Facsimile

0416 680 375 (Not specified)

Facsimile

+61 2 8594 0499

admin@neoconsulting.com.au N4806

SGS Reference

Telephone

au.environmental.sydney@sgs.com

Project (Not specified) Order Number Samples 28

Date Received Date Reported SE219984 R0 25/5/2021 2/6/2021

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the soil sample supplied has been sub-sampled for asbestos according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. For identification of asbestos in soil samples, Industries & environment recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin

SIGNATORIES

Akheegar BENIAMEEN

Chemist

Dong LIANG

Metals/Inorganics Team Leader

S. Raverolm.

Kamrul AHSAN

Senior Chemist

Ly Kim HA

Organic Section Head

Ravee SIVA SUBRAMANIAM

Hygiene Team Leader

Shane MCDERMOTT

Inorganic/Metals Chemist

SGS Australia Pty Ltd ABN 44 000 964 278

Environment, Health and Safety

Unit 16 33 Maddox St PO Box 6432 Bourke Rd Alexandria NSW 2015 Alexandria NSW 2015

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t+61 2 8594 0400 f+61 2 8594 0499 www.sgs.com.au

2/06/2021

Member of the SGS Group Page 1 of 21



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#### VOC's in Soil [AN433] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		SOIL - 24/5/2021 SE219984.001	SOIL - 24/5/2021 SE219984.002	SOIL 24/5/2021 SE219984.003	SOIL 24/5/2021 SE219984.004	SOIL 24/5/2021 SE219984.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		24/5/2021 SE219984.006	24/5/2021 SE219984.007	24/5/2021 SE219984.008	24/5/2021 SE219984.009	24/5/2021 SE219984.010
Benzene	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	UOM		24/5/2021 SE219984.011	24/5/2021 SE219984.012	24/5/2021 SE219984.013	24/5/2021 SE219984.014	24/5/2021 SE219984.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
PARAMETER	UOM	LOR	24/5/2021 SE219984,016	24/5/2021 SE219984.017	24/5/2021 \$E219984.018	24/5/2021 5E219984.019	24/5/2021 SE219984.020
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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VOC's in Soil [AN433] Tested: 28/5/2021 (continued)

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
PARAMETER	иом		SOIL - 24/5/2021 5E219984.021	SOIL - 24/5/2021 SE219984 022	SOIL 24/5/2021 SE219984.023	SOIL 24/5/2021 SE219984,024	SOIL - 24/5/2021 SE219984.025
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 13.2	D1	D2
PARAMETER	иом		SOIL - 24/5/2021 SE219984.026	SOIL - 24/5/2021 SE219984.027	SOIL - 24/5/2021 SE219984.028
Benzene	mg/kg	0.1	<0,1	<0.1	<0.1
Toluene	mg/kg	0.1	<0,1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0,1	<0.1	<0.1

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#### Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		24/5/2021 SE219984.001	24/5/2021 SE219984.002	24/5/2021 \$E219984.003	24/5/2021 SE219984.004	24/5/2021 SE219984 005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		SGIL - 24/5/2021 SE219984.006	SCIL - 24/5/2021 SE219984 007	SOIL - 24/5/2021 SE219984 008	SOIL - 24/5/2021 5E219984.009	SOIL - 24/5/2021 SE219984.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	UOM	LOR	SOIL - 24/5/2021 SE219984.011	SOIL - 24/5/2021 SE219984.012	SOIL 24/5/2021 SE219984.013	SOIL - 24/5/2021 SE219984.014	SOIL - 24/5/2021 SE219984.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0,1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	20	<20	<25	<b>&lt;20</b>	^25	520
FRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
				24/5/2021	24/5/2021		24/5/2021
PARAMETER	NOM		SE219984.016	SE219984.017	SE219984.018	SE219984.019	SE219984.020
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
PARAMETER	UOM		SE219984.021	SE219984.022	SE219984.023	SE219984.024	SE219984.025
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 13.2	D1	D2
PARAMETER	иом	LOR	50IL - 24/6/2021 5E219984.026	SOIL - 24/5/2021 5E219984.027	SOIL - 24/5/2021 SE219984.028
TRH C6-C9	mg/kg	20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

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#### TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
			SOIL 24/5/2021 SE219984.001	SOIL - 24/5/2021 SE219984.002			SOIL - 24/5/2021 SE219984.005
PARAMETER	UOM				24/5/2021 SE219984.003	24/5/2021 SE219984,004	
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	67	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<26
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<26
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	иом		SOIL 24/5/2021 SE219984.006	SOIL 24/5/2021 SE219984.007	SOIL - 24/5/2021 SE219984 008	SOIL - 24/5/2021 5E219984 009	SOIL - 24/5/2021 SE219984.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	99	110
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	91	100
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
				SOIL - 24/5/2021 SE219984.012			SOIL - 24/5/2021 SE219984.015
PARAMETER	UOM		24/5/2021 SE219984.011		24/5/2021 SE219984.013	24/5/2021 SE219984.014	
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

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#### TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/5/2021 (continued)

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
	UOM			SOIL - 24/5/2021 SE219984.017			
PARAMETER			24/5/2021 SE219984.016		24/5/2021 SE219984.018	24/5/2021 SE219984,019	24/5/2021 SE219984 020
TRH C10-C14	mg/kg	20	<20	230	160	<20	<20
TRH C15-C28	mg/kg	45	<45	620	440	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	400	280	<25	<26
FRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	400	280	<25	<26
TRH >C16-C34 (F3)	mg/kg	90	<90	450	330	<90	<90
FRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
FRH C10-C36 Total	mg/kg	110	<110	850	600	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	850	600	<210	<210

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
PARAMETER	иом		SOIL - 24/5/2021 SE219984,021	SOIL 24/5/2021 SE219984 027	SOIL 24/5/2021 5E219984 023	SOIL • 24/5/2021 5E219984.024	SOIL - 24/5/2021 SE219984.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH 13.2	D1	D2
PARAMETER	UOM		SOIL 24/5/2021 SE219984,026	SOIL - 24/5/2021 SE219984.027	SOIL - 24/5/2021 SE219984.078
TRH C10-C14	mg/kg	20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210

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OC Pesticides in Soil [AN420] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		24/5/2021 SE219984.001	24/5/2021 SE219984.002	24/5/2021 SE219984.003	24/5/2021 SE219984.004	24/5/2021 SE219984 005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
rans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM	LOR	SE219984.006	SE219984.007	SE219984,008	SE219984.009	SE219984.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
				SOIL		SOIL	SOIL
PARAMETER	иом		SE219984.011	SE219984.012	SE219984.013	SE219984.014	SE219984.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
					SOIL		
PARAMETER	UOM	LOR	SE219984.016	SE219984.017	SE219984,018	SE219984.019	SE219984 020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
rans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDT	mg/kg	0.1	<0.1	<0.1	<0,1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
				3012		SUL	3011
PARAMETER	иом		SE219984.021	SE219984.022	SE219984.023	SE219984.024	SE219984.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	< 0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 13.2	D1	D2
PARAMETER	иом		24/5/2021 SE219984.026	24/5/2021 SE219984.027	24/5/2021 SE219984.028
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Npha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
indane	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Ndrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
p.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
Samma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
rans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
a,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
vlethoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1
sodrin	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1

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#### OP Pesticides in Soil [AN420] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		SOIL - 24/5/2021 SE219984.001	SOIL - 24/5/2021 SE219984 002	SOIL 24/5/2021 SE219984.003	SOIL 24/5/2021 SE219984.004	SOIL - 24/5/2021 SE219984 005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER						SOIL 24/5/2021	SOIL 24/5/2021
Dichloryos	UOM mg/kg	0.5	SE219984.006 <0.5	SE219984.007 <0.5	SE219984.008 <0.5	SE219984.009 <0.5	SE219984.010 <0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0,2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

		, i	BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	иом	LOR	SOIL - 24/5/2021 SE219984.011	SOIL - 24/5/2021 SE219984.012	SOIL - 24/5/2021 SE219984.013	SOIL - 24/5/2021 SE219984.014	SOIL 24/5/2021 SE219984.015
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0,5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

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OP Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
PARAMETER	UOM	LOR	SOIL 24/5/2021 SE219984.016	SOIL - 24/5/2021 SE219984.017	SOIL 24/5/2021 SE219984.018	SOIL 24/5/2021 SE219984.019	SOIL - 24/5/2021 SE219984.020
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlarpyrifos (Chlarpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
PARAMETER	UOM		SOIL 24/5/2021 SE219984.021	SOIL - 24/5/2021 SE219984.022	SOIL 24/5/2021 SE219994.023	SOIL 24/5/2021 SE219984.024	SOIL - 24/5/2021 SE219984.025
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0,2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH 13.2	D1	D2
PARAMETER	иом	LOR	SOIL - 24/5/2021 SE219984.026	SOIL 24/5/2021 SE219984.027	SOIL 24/5/2021 SE219984.028
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7

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#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 31/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.4
PARAMETER	MON	LOR	SE219984.001	SE219984.002	SE219984.003	SE219984.004	SE219984 005
Arsenic, As	mg/kg	1	2	5	4	3	5
Cadmium, Cd	mg/kg	0.3	<0.3	1.5	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	2.1	7.3	7.4	6.1	10
Copper, Cu	mg/kg	0.5	1.6	17	2.4	0.6	0.9
Lead, Pb	mg/kg	1	6	30	15	9	10
Nickel, Ni	mg/kg	0.5	0.8	5.2	1.5	0.8	2.0
Zinc, Zn	mg/kg	2	10	98	19	9.4	16

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		24/5/2021 SE219984.006	24/5/2021 SE219984.007	24/5/2021 SE219984.008	24/5/2021 \$E219984.009	24/5/2021 SE219984.010
Arsenic, As	mg/kg	1	6	6	5	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	7.6	11	5.8	8.1
Copper. Cu	mg/kg	0.5	<0.5	0.6	0.6	1.1	1.7
Lead, Pb	mg/kg	1	13	14	10	12	16
Nickel, Ni	mg/kg	0.5	1.5	1.1	2.2	1.7	2.8
Zinc, Zn	mg/kg	2	8.6	13	13	17	24

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER		UOM LOR		SOIL - 24/5/2021 SE219984.012		SOIL 24/5/2021 SE219984 014	
	иом		24/5/2021 SE219984.011		24/5/2021 SE219984.013		24/5/2021 SE219984.015
Arsenic, As	mg/kg	1	4	5	2	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.6	9.2	5.8	4.9	7.2
Copper, Cu	mg/kg	0.5	1.1	3.7	3.8	3.1	1.3
Lead, Pb	mg/kg	1	10	13	5	4	8
Nickel, Ni	mg/kg	0.5	1.8	2.7	2.3	3.2	1.4
Zinc, Zn	mg/kg	2	17	35	32	30	7.5

			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2
PARAMETER	UOM	LOR	SOIL - 24/5/2021 SE219984.016	SOIL - 24/5/2021 SE219984.017	SOIL - 24/5/2021 SE219984.018	SOIL - 24/5/2021 SE219984.019	SOIL - 24/5/2021 SE219984.020
Arsenic, As	mg/kg	1	5	5	5	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	9.4	7.3	7.0	5.7
Copper, Cu	mg/kg	0.5	3.2	1.8	0.8	<0.5	0.6
Lead, Pb	mg/kg	1	10	9	9	15	9
Nickel, Ni	mg/kg	0.5	3.4	1.8	1.8	1.2	1.2
Zinc, Zn	mg/kg	2	39	9.7	9.6	5.9	6.3

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#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 31/5/2021 (continued)

			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1
PARAMETER	иом		SOIL 24/5/2021 SE219984.021	SOIL - 24/5/2021 SE219984 022	SOIL 24/5/2021 SE219984.023	SOIL 24/5/2021 SE219984.024	SOIL - 24/5/2021 SE219984 025
Arsenic, As	mg/kg	1	5	4	3	5	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.9	9.3	4.3	2.3	7.9
Copper, Cu	mg/kg	0.5	0.6	1.3	1.4	3.2	3.7
Lead, Pb	mg/kg	1	9	10	11	10	10
Nickel, Ni	mg/kg	0.5	1.5	2.1	1.4	1.9	1.9
Zinc, Zn	mg/kg	2	13	17	14	25	16

			BH 13.2	D1	D2
PARAMETER	UOM		SOIL 24/5/2021 SE219984.026	SOIL - 24/5/2021 SE219984.027	SOIL 24/5/2021 SE219984.028
Arsenic, As	mg/kg	1	3	7	3
Cadmium, Cd	mg/kg	0.3	<0.3	2.5	<0.3
Chromium, Cr	mg/kg	0.5	5.6	9.9	4.9
Copper, Cu	mg/kg	0.5	3.2	20	3.7
Lead, Pb	mg/kg	1	7	32	6
Nickel, Ni	mg/kg	0.5	2.5	4.3	2.3
Zinc, Zn	mg/kg	2	30	130	29

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#### Mercury in Soil [AN312] Tested: 31/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	иом		24/5/2021 SE219984.001	24/5/2021 SE219984.002	24/5/2021 SE219984.003	24/5/2021 SE219984,004	24/5/2021 SE219984.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM	LOR	24/5/2021 SE219984.006	24/5/2021 \$E219984.007	24/5/2021 SE219984,008	24/5/2021 SE219984.009	24/5/2021 SE219984.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury	mg/kg	0.05	SE219984.011 <0.05	SE219984.012 <0.05	SE219984.013 <0.05	SE219984 014 <0.05	SE219984.015 <0.05
PARAMETER	ÜÖM		24/5/2021	24/5/2021	24/5/2021	24/5/2021	24/5/2021
			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	< 0.05	<0.05
PARAMETER	UOM	LOR	24/5/2021 SE219984.016	24/5/2021 SE219984.017	24/5/2021 SE219984.018	24/5/2021 SE219984.019	24/5/2021 SE219984.020
			BH 8.2	BH 9.1	BH 9.2	BH 10.1	BH 10.2

PARAMETER	MOU	LOR	SE219984.021	SE219984.022	5E219984.023	SE219984.024	SE219984.025
			24/5/2021				24/5/2021
			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1

			BH 13.2	D1	D2
PARAMETER	UOM		24/5/2021 SE219984.026	24/5/2021 SE219984.027	24/5/2021 SE219984.028
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05

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#### Moisture Content [AN002] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	uom		24/5/2021 SE219984.001	24/5/2021 SE219984.002	24/5/2021 SE219984,003	24/5/2021 SE219984.004	24/5/2021 SE219984.005
% Moisture	%w/w	1	13.7	12.7	20.4	17.9	23.5

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		24/5/2021 SE219984.006	- 24/5/2021 SE219984.007	24/5/2021 SE219984.008	24/5/2021 SE219984.009	24/5/2021 SE219984.010
% Moisture	%w/w	1	18.3	17.1	23.0	17.6	20.5

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER			24/5/2021 SE219984.011	24/5/2021 SE219984.012	24/5/2021 \$E219984.013	24/5/2021 5E219984.014	24/5/2021 SE219984.015
% Moisture	36w/w	1	18.9	16.9	7.3	5.7	14.1

% Moisture	%w/w	1	12.7	21.5	18.2	18.0	17.3
PARAMETER	UOM	LOR	24/5/2021 SE219984.016	24/5/2021 SE219984.017	24/5/2021 SE219984,018	24/5/2021 SE219984.019	SOIL - 24/5/2021 SE219984.020
			BH 8.2 SOIL	BH 9.1 SOIL	BH 9.2 SOIL	BH 10.1 SOIL	BH 10.2

% Moisture	%w/w	1	15.2	22.4	17.7	15.9	13.1
PARAMETER	WOW	LOR	24/5/2021 SE219984.021	24/5/2021 SE219984.022	24/5/2021 SE219984,023	24/5/2021 SE219984.024	24/5/2021 5E219984.025
			BH 11.1	BH 11.2	BH 12.1	BH 12.2	BH 13.1

			BH 13.2	D1	D2
			SOIL 24/5/2021	SOIL 24/5/2021	
PARAMETER	UOM		SE219984.026	SE219984.027	SE219984.028
% Moisture	%6w/w	1	9,8	14.4	9.9

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#### Fibre Identification in soil [AN602] Tested: 31/5/2021

Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos Detected	No unit		No	No	No	No	No
PARAMETER	UOM		SOIL 24/5/2021 SE219984,001	BH 2.1 SOIL - 24/5/2021 SE219984.003	BH 3.1 SOIL 24/5/2021 SE219984,005	BH 4.1 SOIL 24/5/2021 SE219984.007	SOIL 24/5/2021 SE219984 009

			BH 6.1	BH 7.1	BH 8.1	BH 9.1	BH 10.1
PARAMETER	UOM		24/5/2021 SE219984.011	24/5/2021 SE219984.013	24/5/2021 SE219984.015	24/5/2021 SE219984.017	24/5/2021 SE219984.019
Asbestos Detected	No unit		No	No	No	No	No
Estimated Fibres*	% w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			BH 11.1	BH 12.1	BH 13.1
PARAMETER	VOM		SOIL 24/5/2021 SE219984,021	SOIL 24/5/2021 SE219984.023	SOIL 24/5/2021 \$E219984.025
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01

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# METHOD SUMMARY

SE219984 R0

METHOD	METHODOLOGY SUMMARY —
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of $0.1~g/kg$ " ( $<0.01\%w/w$ ) where AN602 section 4.5 of this method has been followed, and if-
	(a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under steep microscope viewing conditions.

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under stereo-microscope viewing conditions.



#### METHOD SUMMARY

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#### FOOTNOTES -

 NATA accreditation does not cover the performance of this service.
 Indicative data, theoretical holding time exceeded.

\*\* Indicates that both \* and \*\* apply.

- Not analysed.

NVL Not validated.

IS Insufficient sample for LNR analysis.

Sample listed, but not received.

UOM Unit of Measure.

LOR Limit of Reporting.

↑↓ Raised/lowered Limit of

Reporting.

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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

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#### ANALYTICAL REPORT





CLIENT DETAILS

LABORATORY DETAILS

Contact

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au.environmental.sydney@sgs.com

N4807 Project (Not specified) Order Number

SGS Reference Date Received

SE219982 R0 25/5/2021

Samples 18 Date Reported

2/6/2021

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the soil sample supplied has been sub-sampled for asbestos according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. For identification of asbestos in soil samples, Industries & environment recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin

SIGNATORIES

Akheegar BENIAMEEN

Chemist

Dong LIANG

Metals/Inorganics Team Leader

Kamrul AHSAN

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Ravee SIVA SUBRAMANIAM

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#### VOC's in Soil [AN433] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.4
PARAMETER	UOM		SOIL - 24/5/2021 SE219982.001	SOIL - 24/5/2021 SE219982 002	SOIL 24/5/2021 SE219992,003	SOIL 24/5/2021 SE219982.004	SOIL - 24/5/2021 SE219982.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0,3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		24/5/2021 SE219982.006	24/5/2021 SE219982.007	24/5/2021 SE219982.008	24/5/2021 SE219982.009	24/5/2021 SE219982.010
Benzene	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total STEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0,1	<0.1	<0.1	<0.1	<0.1

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	UOM	LOR	SE219982.011	SE219982.012	5E219982.013	SE219982.014	SE219982.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

			BH 8.2	BH 9.1	BH 9.2
PARAMETER	UOM		SOIL - 24/5/2021 SE219982,016	SOIL 24/5/2021 SE219982.017	SOIL 24/5/2021 SE219982.018
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
n/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1

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#### Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		24/5/2021 SE219982.001	24/5/2021 SE219982.002	24/5/2021 \$E219982,003	24/5/2021 SE219982.004	24/5/2021 SE219982.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	иом	LOR	SOIL - 24/5/2021 SE219982.006	SCIL - 24/5/2021 SE219982.007	SOIL - 24/5/2021 \$E219982.008	SOIL - 24/5/2021 \$E219982.009	SOIL - 24/5/2021 SE219982.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	< 0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	UOM		24/5/2021 SE219982.011	24/5/2021 SE219982.012	24/5/2021 SE219982.013	24/5/2021 SE219982.014	24/5/2021 SE219982.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	20	<25	<25	<20	<25	<b>^20</b>
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH 8.2	BH 9.1	BH 9.2
PARAMETER	иом		SOIL 24/5/2021 SE219982.016	SOIL 24/5/2021 5E219982.017	SOIL 24/5/2021 SE219982.018
TRH C6-C9	mg/kg	20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0,1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

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#### TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		SOIL 24/5/2021 SE219982.001	SOIL - 24/5/2021 SE219982.002	SOIL 24/5/2021 SE219982,003	SOIL - 24/5/2021 SE219982 004	SOIL - 24/5/2021 SE219982.005
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	26	<25	<25	<25	<25	<26
TRH >C10-C16 - Naphthalene (F2)	mg/kg	26	<25	<25	<25	<25	<26
FRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
FRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	иом		SOIL - 24/5/2021 SE219982.006	SOIL - 24/5/2021 SE219982.007	SOIL - 24/5/2021 SE219982.008	SOIL - 24/5/2021 5E219982 009	SOIL - 24/5/2021 SE219982.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
	иом		SOIL 24/5/2021 SE219982.011	SOIL - 24/5/2021 SE219982.012	SOIL 24/5/2021 SE219982.013		SOIL - 24/5/2021 SE219982.015
PARAMETER						24/5/2021 5E219982.014	
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<26	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

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SE219982 R0

TRH (Total Recoverable H	lydrocarbons) in Soil [AN	4031 Tested: 28/5/2021	(continued)
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			BH 8.2	BH 9.1	BH 9.2
PARAMETER	UOM		SOIL - 24/5/2021 SE219982.016	SOIL - 24/5/2021 SE219982 017	SOIL - 24/5/2021 SE219992.018
TRH C10-C14	mg/kg	20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100
TRH >C10-C16	mg/kg	26	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	26	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210

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SE219982 R0

OC Pesticides in Soil [AN420] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
NA DALVESTED			24/5/2021	24/5/2021	24/5/2021	24/5/2021	24/5/2021
PARAMETER Hexachlorobenzene (HCB)	UoM mg/kg	LOR 0.1	SE219982.001 <0.1	SE219982.002 <0.1	SE219982 003 <0.1	SE219982.004 <0.1	SE219982 005 <0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Adrin		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
POINTE POL	mg/kg	100000	8670231	<0.1	<0.1	<0.1	190000011
Delta BHC	mg/kg	0.1	<0.1			ii	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
rans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vethoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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SE219982 R0

OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
					SOIL - 24/5/2021 SE219992,008		
ARAMETER	UOM		24/5/2021 SE219982.006	24/5/2021 SE219982.007		24/5/2021 SE219982,009	24/5/2021 SE219982.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0,1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0,1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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SE219982 R0

OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
					SOIL		
	MON		24/5/2021	24/5/2021	24/5/2021	24/5/2021	24/5/2021
PARAMETER Hexachlorobenzene (HCB)	200000	LOR 0.1	SE219982.011 <0.1	SE219982.012 <0.1	SE219982 013 <0.1	SE219982.014 <0.1	SE219982.015 <0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	mg/kg	0.505/41	2000	- 336			927024
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0,1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1	<0,1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p.p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

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SE219982 R0

OC Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

p.p'-DDT

Endosulfan sulphate

Total CLP OC Pesticides

Endrin Aldehyde

Methoxychlor

Endrin Ketone

Isodrin

Mirex

PARAMETER	UOM		SOIL 24/5/2021 SE219982.016	BH 9.1 SOIL 24/5/2021 SE219982.017	SOIL 24/5/2021 SE219982.018
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0,1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0,1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0,1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
p.p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1

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## OP Pesticides in Soil [AN420] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER			SOIL - 24/5/2021 SE219982.001	SOIL - 24/5/2021 SE219982 002	SOIL 24/5/2021 SE219982.003	SOIL - 24/5/2021 SE219982.004	SOIL 24/5/2021 SE219982 005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM		SOIL 24/5/2021 SE219982.006	SOIL - 24/5/2021 SE219982-007	SOIL 24/5/2021 SE219992.008	SOIL - 24/5/2021 SE219982.009	SOIL - 24/5/2021 SE219982.010
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	UOM	LOR	SOIL - 24/5/2021 SE219982.011	SOIL - 24/5/2021 SE219982.012	SOIL 24/5/2021 \$E219992.013	SOIL - 24/5/2021 SE219982.014	SOIL 24/5/2021 SE219982.015
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

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OP Pesticides in Soil [AN420] Tested: 28/5/2021 (continued)

			BH 8.2	BH 9.1	BH 9.2
PARAMETER	UOM		SOIL 24/5/2021 SE219982.016	SOIL 24/5/2021 SE219982.017	SOIL 24/5/2021 SE219982.018
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1,7	<1.7	<1.7

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Page 158 Item 15.3- Attachment 1



SE219982 R0

# Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 31/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM	LOR	SOIL - 24/5/2021 SE219982.001	SOIL - 24/5/2021 SE219982 002	SOIL 24/5/2021 SE219992,003	SOIL - 24/5/2021 SE219982 004	SOIL - 24/5/2021 SE219982 005
Arsenic, As	mg/kg	1	2	1	1	2	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	< 0.3	<0.3
Chromium, Cr	mg/kg	0.5	1.8	1.5	2.0	2.8	2.8
Copper, Cu	mg/kg	0.5	1.5	<0.5	1.6	<0.5	6.6
Lead, Pb	mg/kg	1	8	7	8	8	10
Nickel, Ni	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	1.1
Zinc, Zn	mg/kg	2	10	3.7	7.1	4.8	44

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM	LOR	SOIL 24/5/2021	SOIL - 24/5/2021	SOIL 24/5/2021	50IL 24/5/2021	SOIL 24/5/2021 SE219982.010
Minute and Company of the Company of	Wildow .	and the second	SE219982.006	SE219982.007	SE219982.008	SE219982.009	TOTAL WINDOWS CONTROL OF THE PARTY OF THE PA
Arsenic, As	mg/kg	1	1	5	4	6	6
Cadmium, Cd	mg/kg	0.3	< 0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	2.8	6.3	14	11	9.8
Copper, Cu	mg/kg	0.5	1.3	4.6	4.4	2.2	2.7
Lead, Pb	mg/kg	1	9	7	9	13	13
Nickel, Ni	mg/kg	0.5	0.7	2.5	3.3	2.8	2.5
Zinc, Zn	mg/kg	2	7.6	32	41	20	20

			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1
PARAMETER	иом		24/5/2021 SE219982.011	24/5/2021 SE21998Z.012	24/5/2021 SE219982.013	24/5/2021 SE219982 014	24/5/2021 SE219982.015
Arsenic, As	mg/kg	1	1	7	5	5	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	1.6	8.8	8.3	7.6	8.2
Copper, Cu	mg/kg	0.5	2.0	1.0	1.7	1.0	0.6
Lead, Pb	mg/kg	1	8	12	28	10	10
Nickel, Ni	mg/kg	0.5	<0.5	1.6	1.0	1.4	1.2
Zinc, Zn	mg/kg	2	9.7	10	24	13	13

			BH 8.2	BH 9.1	BH 9.2
PARAMETER	иом		SOIL - 24/5/2021 SE219982.016	SOIL - 24/5/2021 SE219982.017	SOIL 24/5/2021 SE219982.018
Arsenic, As	mg/kg	1	5	3	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.6	3.6	7.4
Copper, Cu	mg/kg	0.5	0.8	1.1	0.7
Lead, Pb	mg/kg	1	13	17	10
Nickel, Ni	mg/kg	0.5	1.2	0.8	1.3
Zinc, Zn	mg/kg	2	11	10	11

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SE219982 R0

## Mercury in Soil [AN312] Tested: 31/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		24/5/2021 SE219982.001	24/5/2021 SE219982.002	24/5/2021 SE219982.003	24/5/2021 SE219982.004	24/5/2021 SE219982.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH 3.2	BH 4.1	BH 4.2	BH 5.1	BH 5.2
PARAMETER	UOM	LOR	24/5/2021 SE219982.006	24/5/2021 \$E219982.007	24/5/2021 SE219982.008	24/5/2021 SE219982.009	24/5/2021 SE219982.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

301 301 301 30	

			ВН 8.2	BH 9.1	BH 9.2
PARAMETER	UOM		24/5/2021 SE219982.016	24/5/2021 5E219982.017	24/5/2021 \$E219982.018
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05

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SE219982 R0

## Moisture Content [AN002] Tested: 28/5/2021

			BH 1.1	BH 1.2	BH 2.1	BH 2.2	BH 3.1
PARAMETER	UOM		24/5/2021 SE219982.001	24/5/2021 SE219982.002	24/5/2021 SE219982.003	24/5/2021 SE219982 004	24/5/2021 SE219982 005
% Moisture	% w/w	1	15.9	13.0	18.0	13.1	20.9

% Moisture	% w/w	1	18.5	9.1	5.6	18.4	19.5
ARAMETER	UOM	LOR	24/5/2021 SE219982.006	24/5/2021 SE219982.007	24/5/2021 SE219992.008	24/5/2021 SE219982.009	24/5/Z021 SE219982.010
			BH 3.2 SOIL	BH 4.1 SOIL	BH 4.2 SOIL	BH 5.1 SOIL	BH 5.2 SOIL

% Moisture	%w/w	1	13.5	20.2	21.7	15.7	16.8
PARAMETER	иом	LOR	24/5/2021 SE219982.011	24/5/2021 SE219982.012	24/5/2021 \$E219982.013	24/5/2021 SE219982.014	24/5/2021 SE219982.015
			BH 6.1	BH 6.2	BH 7.1	BH 7.2	BH 8.1

% Moisture	%w/w	1	16.4	17.3	17.1
PARAMETER	UOM	LOR	SOIL 24/5/2021 SE219982.016	SOIL 24/5/2021 SE219982.017	SCIL 24/5/2021 SE219982.018
			BH 8.2	BH 9.1	BH 9.2

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## Fibre Identification in soil [AN602] Tested: 31/5/2021

			BH 1.1	BH 2.1	BH 3.1	BH 4.1	BH 5.1
PARAMETER	UOM		24/5/2021 SE219982.001	24/5/2021 SE219982.003	24/5/2021 SE219982.005	24/5/2021 SE219982.007	24/5/2021 SE219982 009
Asbestos Detected	No unit		No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			BH 6.1	BH 7.1	BH 8.1	BH 9.1
PARAMETER	иом	LOR	SE219982.011	SE219982.013	SE219982.015	SE219982.017
Asbestos Detected	No unit		No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	< 0.01

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# METHOD SUMMARY

SE219982 R0

METHOD —	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 $g/kg$ " (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-
	(a) no trace asbestos fibres have been detected (i.e. no 'respirable 'fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under steep microscope viewing conditions.

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under stereo-microscope viewing conditions.



#### METHOD SUMMARY

SE219982 R0

#### FOOTNOTES -

 NATA accreditation does not cover the performance of this service.
 Indicative data, theoretical holding time exceeded.

\*\* Indicates that both \* and \*\* apply.

- Not analysed.

NVL Not validated.

IS Insufficient sample for LNR analysis.

Sample listed, but not received.

UOM Unit of Measure.

LOR Limit of Reporting.

↑↓ Raised/lowered Limit of

Reporting.

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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## ANALYTICAL REPORT





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

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4/06/2021

Member of the SGS Group



SE220320 R0

VOCs in Water [AN433] Tested: 3/6/2021

			MW1	MW2
PARAMETER	UOM		WATER - 2/8/2021 SE220320.001	WATER - 2/6/2021 SE220320.002
Benzene	µg/L	0.5	<0.5	<0.5
Toluene	μg/L	0.5	<0.5	<0.5
Ethylbenzene	μg/L	0.5	<0.5	<0.5
m/p-xylene	μg/L	1	<1	<1
o-xylene	μg/L	0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1,5	<1.5
Total BTEX	µg/L	3	<3	<3
Naphthalene	μg/L	0.5	<0.5	<0.5

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SE220320 R0

## Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 3/6/2021

			MW1	MW2
PARAMETER	иом		WATER - 2/8/2021 \$E220320.001	WATER - 2/6/2021 SE220320.002
TRH C6-C9	μg/L	40	<40	57
Benzene (F0)	μg/L	0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	62
TRH C6-C10 minus BTEX (F1)	μg/L	50	<50	62

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TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 4/6/2021

			MW1	MW2
PARAMETER	UOM	LOR	WATER - 2/8/2021 SE220320.001	WATER - 2/6/2021 \$E220320.002
TRH C10-C14	µg/L	50	<50	<50
TRH C15-C28	µg/L	200	270	<200
TRH C29-C36	µg/L	200	<200	<200
TRH C37-C40	µg/L	200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	μg/L	60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500
TRH C10-C40	μg/L	320	<320	<320

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SE220320 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 4/6/2021

			MW1	MW2
PARAMETER	UOM	LOR	WATER 	WATER - 2/6/2021 \$E220320.002
Naphthalene	µg/L	0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1
1-methylnaphthalene	μg/L	0.1	<0.1	<0.1
Acenaphthylene	μg/L	0.1	<0.1	<0.1
Acenaphthene	μg/L	0.1	<0.1	<0.1
Fluorene	μg/L	0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0,1	<0.1
Pyrene	μg/L	0.1	<0.1	<0.1
Benzo(a)anthracene	μg/L	0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(k)fluoranthene	μg/L	0.1	<0.1	<0.1
Benzo(a)pyrene	μg/L	0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	μg/L	0.1	<0,1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0,1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1

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SE220320 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 3/6/2021

			MW1	MW2	
PARAMETER	иом		WATER - 2/6/2021 SE220320.001	WATER - 2/6/2021 \$E220320.002	
Arsenic, As	µg/L	1	1	<1	
Cadmium, Cd	μg/L	0.1	<0.1	<0.1	
Chromium, Cr	μg/L	1	<1	<1	
Copper, Cu	μg/L	- 1	3	<1	
Lead, Pb	μg/L	1	<1	<1	
Nickel, Ni	µg/L	1	1	<1	
Zinc, Zn	μg/L	5	22	<5	

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SE220320 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 4/6/2021

			MW1	MW2
				WATER
PARAMETER	UOM	LOR	- 2/6/2021 SE220320.001	2/6/2021 SE220320.002
	3690		TOWNS CONTRACT V	E
Mercury	mg/L	0.0001	<0.0001	< 0.0001

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# METHOD SUMMARY

SE220320 R0

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

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**FOOTNOTES** 

SE220320 R0

FOOTNOTES -

NATA accreditation does not cover the performance of this service. Indicative data, theoretical holding time exceeded.

Indicates that both \* and \*\* apply.

Not analysed. NVL Not validated.

IS Insufficient sample for analysis LNR Sample listed, but not received. UOM Unit of Measure. Limit of Reporting. LOR

Raised/lowered Limit of

Reporting.

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

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

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

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

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

Note that in terms of units of radioactivity

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

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

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be

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4/06/2021

Attachment 2: Remedial Action Plan

# **Remedial Action Plan**

16 George Street, Marulan NSW 2579

Lot 3 / - / DP1053945

# N5458

22<sup>nd</sup> September 2021

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## Report distribution

Detailed Site Investigation

Address: 16 George Street, Marulan NSW 2579

NEO Consulting Report No: N5458

Date: 22<sup>nd</sup> September 2021

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Draft	Luke Breva Environmental Scientist	Nick Caltabiano Project Manager	14 <sup>th</sup> September 2021
FINAL	Luke Breva	Nick Caltabiano	22 <sup>nd</sup> September 2021
FINAL	Environmental Scientist	Project Manager	22 September 2021

Report Revision	Details	Report No.	Date	Amended By
1	FINAL Report	N5458	22 <sup>nd</sup> September 2021	-
		Issued By:	Mick Caltabiano	

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## **APPENDICIES**

APPENDIX A – FIGURE

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#### **EXECUTIVE SUMMARY**

NEO Consulting Pty Ltd (NEO) were appointed by DIB Group Pty Ltd (the client) to produce a Remediation Action Plan (RAP) for the site located at 16 George Street, Marulan NSW 2579 (the site).

The objectives of this RAP are to guide the site's remedial and validation process by providing a targeted remediation strategy to address the following:

Remediation of Total Recoverable Hydrocarbon (TRH) fractions > C<sub>10</sub>-C<sub>16</sub>, > C<sub>10</sub>-C<sub>16</sub>-Naphthalene (F2) and > C<sub>16</sub>-C<sub>34</sub> (F3) contaminated soil material within borehole BH9 of Lot 3.

To achieve project objectives the following scope of works were undertaken.

- · Review previous environmental investigations for the site;
- Establish remediation goals and criteria;
- Evaluate remediation technologies and select appropriate remediation strategies;
- Provide guidance on licences, an Environmental Management Plan (EMP), Work Health & Safety Plan (WHSP) and other relevant site plans required for the remedial works;
- Address recommendations made in the previous environmental investigation and outline additional investigations that may need to be undertaken for the site;
- Outline necessary site operations including excavation, stockpiling, management and disposal of soil
  materials and water, environmental controls and a contingency plan to manage additional contamination
  that may be identified during remediation and validation works; and
- Establish a sampling, analysis and quality control plan for additional works, remediation and validation

A previous environmental investigation, Targeted Detailed Site Investigation (NEO, 13<sup>th</sup> June 2021) identified the following:

- NEO consultants collected a total of 46 soil samples from 22 boreholes (two (2) primary samples per borehole, and two (2) duplicate sample for QA/QC procedures):
  - Within Lot 2 (No. 14 George Street, Marulan NSW 2579) a total of 18 soil samples were collected from nine (9) boreholes. Lot 2 is the location of a proposed service station and fast-food area. Lot 2 did not contain any contamination and will not be the focus of the present RAP;
  - Within Lot 3 (No. 16 George Street, Marulan NSW 2579) a total of 28 soil samples were collected from 13 boreholes. Two (2) duplicate samples were taken from this lot. Lot 3 is the location of a proposed hotel/motel and will be the focus of the present RAP.
- Samples were analysed by a NATA accredited laboratory for: Total Recoverable Hydrocarbons (TRH),
  Monocyclic Aromatic Hydrocarbons including Benzene, Toluene, Ethylbenzene and Xylene (BTEX),
  Naphthalene, metals, pesticides and asbestos;

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 Analytical results for soil on Lot 3 exceed the NEPM HSL-A vapour intrusion guidelines and ESL assessment criteria:

Table 1: Sample BH9.1 and BH9.2 exceedances of TRH fractions

NEPM Assessment Criteria	>C <sub>10</sub> - C <sub>16</sub>	>C <sub>10</sub> – C <sub>16</sub> -Naphthalene (F2)	>C <sub>16</sub> -C <sub>34</sub> (F3)
NEPM 2013 Residential A Soil <b>HSL-A</b> for Vapour Intrusion, 0-<1m depth, <b>Sand</b> , mg/kg		110	
NEPM 2013 Residential A Soil <b>HSL-A</b> for Vapour Intrusion, 1-<2m depth, <b>Sand</b> , mg/kg		240	
NEPM 2013 Soil <b>ESL</b> for Urban, Residential and Public Open Spaces for <b>coarse-grained</b> <b>soil</b> , mg/kg	120		300
Sample	mg/kg	mg/kg	mg/kg
BH9.1	400	400	450
ВН9.2	280	280	330

NEO Consulting recommended the implementation of a RAP to determine the remediation process for the exceedances of TRH fractions identified in the soils beneath the site. This RAP is a guide to determine the appropriate remedial action and ensure that the site is suitable for the intended land use.

A review of remedial options were undertaken based on the potential extent of the TRH contamination hotspot, proposed development for the site, suitability of method for thorough removal of contamination, feasibility for the client and general guideline policies. Subsequently NEO Consulting recommends that contaminated soils are excavated and physically removed off-site for disposal to an appropriate licensed landfill facility. The excavated soil must be classified in accordance with the NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste (2014). Additionally, if excavated soils exceed an acceptable level of contamination, these soils may be pre-treated to reduce or immobilise contaminants prior to physical removal of excavated soils off-site.

This particular remediation method was selected because this approach has demonstrated successful remedial outcomes for previous contamination episodes on similar sites; is reliable and ensure short and long term protection from health and ecological exposure to contaminants for the site; can be implemented in a timely manner to reduce potential exposure or migration of contamination; minimises potential land restrictions that may result if the contaminated soils remained on-site; and this approach is approved by regulatory bodies for contaminated soils of this nature.

NEO Consulting recommends that the remediation work for the TRH contamination hotspot for BH9.1 and BH9.2 includes:

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An excavated pit at the location of BH9 in Lot 3 to remove the contaminated soil. The excavated
contaminated soil should be stockpiled and physically removed off-site for disposal to an appropriate
licensed landfill facility. The excavated soil must be classified and removed off – site in accordance with the
NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste (2014).

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#### 1. INTRODUCTION

#### 1.1 BACKGROUND

NEO Consulting were engaged to conduct a Remediation Action Plan (RAP) for the site located at No. 16 George Street, Marulan NSW 2579 (the site). The site is located within the Local Government Area of Goulburn Mulwaree Council. The site has an approximate area of 0.54ha, is legally identified as Lot 3 / - / DP1053945 and is zoned as IN1 - General Industrial. The site is a lot that is incorporated as part of a larger development including two (2) additional adjoining lots (No. 16-28 Portland Avenue and No. 14 George Street, Marulan NSW 2579). However, for the purpose of this RAP, the report will focus on the site for remediation: No. 16 George Street, Marulan NSW 2579.

#### 1.2 PROPOSED DEVELOPMENT

The proposed development for the site includes the construction of a motel, with associated pool, gazebo, bar and carpark.

#### 1.3 REGULATORY FRAMEWORK

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

- Department of Urban Affairs and Planning, NSW Environmental Protection Authority, Managing Land
   Contamination Planning Guidelines SEPP 55 Remediation of Land, 1998;
- National Environment Protection Measures, Schedule B1 Guideline on Investigation Levels for Soil and Groundwater 2013,
- National Environment Protection Measures, Schedule B2 Guideline on Site Characterisation, 2013;
- National Environmental Protection Measures, Schedule B5c Guideline on Ecological Investigation Levels
  for Arsenic, Chromium (III), Copper, DDT, Lead, Naphthalene, Nickel and Zinc, 2013;
- National Environment Protection Measures, Schedule B7 Guideline on Derivation of Health Based Investigation Levels, 2013;
- National Environment Protection Measures, Appendix 1 The Derivation of HILS for Metals and Inorganics, 2013;
- NSW EPA, Contaminated Land Management, Guidelines for the NSW Site Auditor Scheme, 2017 (3rd Edition):
- NSW Environmental Protection Authority, Waste Classification Guidelines Part 1: Classifying Waste, 2014;
- NSW Environmental Protection Authority, Sampling Design Guidelines, 1995;
- The Contaminated Land Management Act 1997;
- NSW Environmental Protection Authority, Guidelines on the Duty to Report Contamination under Contaminated Land Management Act, 1997;
- NSW EPA, Technical Note: Investigation of Service Station Sites, 2014;
- NSW Department of Environment and Conservation, Guidelines for the Assessment and Management of Groundwater Contamination, 2007;
- NSW EPA, Consultants Reporting on Contaminated Land: Contaminated Land Guidelines (2020).

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- Protection of the Environment and Operation Act 1997;
- Protection of the Environment Operations (Waste) Regulations, 2005;
- SafeWork Australia Code of Practice, How to Safely Remove Asbestos, 2020;
- WorkCover NSW, Managing Asbestos in or on Soil, 2014;
- National Occupational Health and Safety Commission (NOHSC) Code of Practice for the Management and Control of Asbestos in Workplaces, 2018;
- State Environment Protection Policy 55 (SEPP 55). Remediation of Land Under the Environmental Planning and Assessment Act, 1998;
- Work Health and Safety Act, 2011; and
- Work Health and Safety Regulation, 2011.

#### 1.4 PROJECT OBJECTIVES

The objectives of this RAP are to guide the site's remedial and validation process by providing a targeted remediation strategy to address the following:

- · Data Gap Closures for the site;
- Remediation of Total Recoverable Hydrocarbon (TRH) contamination within soil BH9.1 and BH9.2 of Lot 3;
- Validation of entire site in accordance with the NSW EPA, Consultants Reporting on Contaminated Land:
   Contaminated Land Guidelines (2020).

### 1.5 SCOPE OF WORKS

To achieve the above listed project objectives, the following scope of works were undertaken to produce this RAP.

- Review the previous environmental investigation for the site;
- Establish remediation goals and criteria;
- Evaluate remediation technologies and select appropriate remediation strategies;
- Provide guidance on licences, an Environmental Management Plan (EMP), Work Health & Safety Plan (WHSP) and other relevant site plans require for the remedial works;
- Outline necessary site operations including excavation, stockpiling, management and disposal of soil
  materials and water, environmental controls and a contingency plan to manage additional identified
  contamination that may be identified during remediation and validation works;
- Advise processes for the unexpected finds of suspicious materials and an Unexpected Finds Protocol;
   Address recommendations made in previous environmental investigations and outline additional investigations which may need to be undertaken for the site; and
- Establish a sampling, analysis and quality control plan for remediation works and validation works.

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#### 2. SITE INFORMATION

#### 2.1 SITE IDENTIFICATION

Table 2. Site Details

Address	No. 16 George Street, Marulan NSW 2579	
Deposited plan	Lot 3 / - / DP1053945	
Zoning	IN1 - General Industrial	
Area	0.54ha	

#### 2.2 SITE DESCRIPTION

Based on the DSI, qualified environmental consultants from NEO inspected the site on the 23<sup>rd</sup> May 2021. During the inspection, site details noted include:

- The site was an irregular-shaped lot and contained of open grass areas and two wooden sheds with metal roofing:
- The site contained three (3) unused storage tanks, two (2) old out of service bowsers and a metal shed near the north-east portion;
- The site had grass and gravel groundcover;
- · No visual or aromatic indications of contamination were identified during the inspection;
- The site (Lot 3 / / DP1053945) was on an upward gradient to the service station on (Lot 2 / / DP1053945).

#### 2.3 SURROUNDING LAND USE

Table 3. Surrounding land use

Direction from site	Land-use	
North	Rural vacant land	
East	Rural residential property	
South	Portland Avenue and George Street intersecting	
West	Rural residential property	

# 2.4 ENVIRONMENTAL SETTING

Data obtained from the Geological Survey of NSW and the Geoscience Australia Stratigraphic Units Database indicate the site to be underlain by sediments comprising residual deposits of unconsolidated clay and fine-grained sands to partially consolidated clay layers. Previous investigations encountered natural clays to 4.5 m bgl.

A groundwater bore search was conducted on the 23<sup>rd</sup> May 2021 and it is found that seven (7) (GW022357, GW023891, GW113742, GW113743, GW113744, GW113745, GW113756) borehole were present within a 500m

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radius of the site. The closest surface water receptors to the site are Marulan Creek located approximately 370m southeast of the site, and Jaorimin Creek located approximately 680m to the northwest of the site.

The site is located within an area with "no known occurrence" of Acid Sulphate Soils (DPIE eSPADE).

#### 3. PREVIOUS INVESTIGATION

A previous environmental investigation of the site reported the following:

## 3.1 DETAILED SITE INVESTIGATION (NEO Consulting, 13th June 2021)

- NEO consultants collected a total of 46 soil samples from 22 boreholes (two (2) primary samples per borehole, and two (2) duplicate sample for QA/QC procedures):
  - Within Lot 2 (No. 14 George Street, Marulan NSW 2579) a total of 18 soil samples were collected from nine (9) boreholes. Lot 2 is the location of a proposed service station andf fast-food area. Lot 2 did not contain any contamination and will not be the focus of the present RAP;
  - Within Lot 3 (No. 16 George Street, Marulan NSW 2579) a total of 28 soil samples were collected from 13 boreholes. Two (2) duplicate samples were taken from this lot. Lot 3 is the location of a proposed hotel/motel and will be the focus of the present RAP.
- Samples were analysed by a NATA accredited laboratory for: Total Recoverable Hydrocarbons (TRH),
  Monocyclic Aromatic Hydrocarbons including Benzene, Toluene, Ethylbenzene and Xylene (BTEX),
  Naphthalene, metals, pesticides and asbestos;
- Analytical results for soil on Lot 3 exceed the NEPM HSL-A vapour intrusion guidelines and ESL assessment criteria (Table 4).

#### 3.2 CONTAMINATION HOTSPOT IDENTIFICATION

On review of the analytical results from the DSI, one (1) hotspot has been identified on-site, with two (2) samples from this borehole exceeding the NEPM Assessment Criteria. This hotspot area has elevated levels of TRH fractions:  $>C_{10}-C_{16}$ ,  $>C_{10}-C_{16}$  -Naphthalene (F2) and  $>C_{16}-C_{34}$  (F3).

Table 4. Contamination results from the DSI, see map in Appendix A.

NEPM Assessment Criteria	>C <sub>10</sub> -C <sub>16</sub>	>C <sub>10</sub> - C <sub>16</sub> -Naphthalene (F2)	>C <sub>16</sub> -C <sub>34</sub> (F3)
NEPM 2013 Residential A Soil <b>HSL-A</b> for Vapour Intrusion, 0-<1m depth, <b>Sand</b> , mg/kg		110	
NEPM 2013 Residential A Soil <b>HSL-A</b> for Vapour Intrusion, 1-<2m depth, <b>Sand</b> , mg/kg		240	
NEPM 2013 Soil <b>ESL</b> for Urban, Residential and Public Open Spaces for <b>coarse-grained soil</b> , mg/kg	120		300

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Sample	mg/kg	mg/kg	mg/kg
BH9.1	400	400	450
BH9.2	280	280	330

## 4. REMEDIATION CRITERIA

The following assessment criteria were adopted for the Data Gap closure and RAP.

## 4.1 NEPM HEALTH SCREENING LEVEL A & B (HSL-A & HSL-B) - LOW TO HIGH DENSITY RESIDENTIAL

HSLs have been developed for selected petroleum compounds and fractions and are used for the assessment of potential risks to human health from chronic inhalation and direct contact pathways of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). HSLs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to depths below surface to >4m.

Tier 1 HSLs are divided into the following sub-criteria:

- HSL A residential with garden/accessible soils
- HSL B residential with minimal opportunities for soil access
- HSL C public open space/recreational areas
- HSL D commercial/industrial premises

## 4.2 NEPM ECOLOGICAL SCREENING LEVEL (ESL) - URBAN RESIDENTIAL AND PUBLIC OPEN SPACE

ESLs have been developed for selected petroleum hydrocarbons (BTEX, benzo(a)pyrene, TRH F1 and F2) in soil, based on fresh contamination. These parameters are applicable to coarse and fine-grained soil and apply from the surface of the soil to 2m below ground level, which corresponds with the root and habitat zone for many species.

#### 5. CONCEPTUAL SITE MODEL

In accordance with NEPM, *Schedule B2, Guideline on Site Characterisation* (2013) and to aid in the assessment of data collection for the site, a Conceptual Site Model (CSM) assesses plausible pollutant linkages between potential contamination sources, migration pathways and receptors. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation. The previous DSI, (NEO 7<sup>th</sup> July 2021) produced a CSM for the site that integrated all potential sources to provide a broad-spectrum assessment of the connection of receptors and pathways, measured against the potential risk to human health and the environment. The results of the previous CSM produced a set of Data Gaps that are addressed in the present RAP. This updated CSM considers the remaining potential contamination sources, receptors and exposure pathways, connection and potential risk to human health and the environment (**Table 5**).

Table 5. Conceptual Site Model

Potential Sources	Potential Receptor	Potential Exposure	Complete	Risk	Justification/Comment
		Pathway	connection		

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Petroleum-derived contamination (TRH F2 (>C <sub>10</sub> -C <sub>16</sub> )) (0 - <1m)	Site occupants, workers, general public, future	Dermal contact, inhalation/ingestion of particulates.	Complete (Current)	High	TRH F2 contamination detected at 0.5m bgl within fill material during
within fill/topsoil layer on site.	residents.		Low (Future)	Low	DSI. Remedial action required.
	Natural soils.	Leaching and migration of contaminants	Complete (Current)	High	
		through fill and natural soils on site.	Low (Future)	Low	
Petroleum-derived contamination (TRH F2 (>C <sub>10</sub> -C <sub>16</sub> )) (1 - <2m)	Site occupants, workers, general public, future	Dermal contact, inhalation/ingestion of particulates.	Complete (Current)	High	TRH F2 ( $>C_{10}-C_{16}$ ) contamination detected at 1.5m bgl within
within natural soils.	residents.  Natural soils.		natural soil layer during DSI. Remedial action required.		
	Underlying aquifer.	Leaching and migration of contaminants through groundwater infiltration.	Complete (Current)	High	
			Low (Future)	Low	

## 6. REMEDIATION STRATEGY

## 6.1 REMEDIATION OBJECTIVE

The remediation program objective is to remove the identified contamination from the site in order to validate the site suitable for its intended land-use. All works undertaken during the remediation program must be monitored by a suitably qualified person, experienced in the assessment and remediation of contaminated sites. The RAP must be adhered to by all personnel and sub-contractors involved in the remediation program. There must be a hard copy of the RAP accessible on site for all remediation personnel. The RAP is to be implemented as part of the site development, this includes site goals and final site validation.

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#### 6.2 NSW EPA HIERARCHY OF OPTIONS FOR SITE REMEDIATION

The NSW EPA hierarchy of options for site remediation and/or management are listed below:

- If practical, on-site treatment of the contamination so that it is depleted, and the associated risk is reduced to an acceptable level; and
- Off-site treatment of excavated soil, so that the contamination is depleted, and the associated risk is reduced to an acceptable level.

If the above is not practical:

- Consolidation and isolation of the soil on-site by containment with a properly designed barrier; and
- Removal of contaminated material to an appropriately licenced facility to receive such waste, and if necessary, replacement with appropriate materials; or
- Where the assessment indicates remediation would have no overall environmental benefit or would have an adverse effect, implementation of an appropriate management strategy.

#### **6.3 REMEDIATION OPTIONS**

#### **6.3.1 AVAILABLE REMEDIATION & MANAGEMENT STRATEGIES**

A range of remediation and management strategies are available for implementation on contaminated sites applicable to the contamination identified on site. A review of the available soil remediation methods and management strategies indicated that the following strategies may be applicable:

- Excavation and off-site disposal of contaminated soil to an appropriately licensed landfill facility;
- Treatment (on-site or off-site);
- Managing the risks posed by contaminants by preventing any direct exposure pathway between the known
  and potential contaminated soil and users of the proposed development, through implementing physical
  barriers such as concrete/synthetic material liners (geofabric)/clean soil capping; and
- Further assessment of soil contamination and health risks.

#### 6.3.2 EXCAVATION & OFF-SITE DISPOSAL

This method involves the excavation of contaminated materials and disposal of these materials off-site to an appropriately licensed landfill facility. Excavated materials must be classified according to the NSW EPA, *Waste Classification Guidelines, Part 1: Classifying Waste* (2014). Depending on the level of contamination, excavated materials may need to be pre-treated to reduce or immobilise contaminants prior to off-site disposal.

#### 6.3.3 TREATMENT

Soil treatment strategies depend on the type of contaminant identified and where the soil is in-situ or ex-situ. Most applied strategies are applied to ex-situ soils through excavation of the contaminated soil materials. In-situ treatments usually require longer a timeframe for completion than ex-situ strategies. Most of the treatment strategies which require the soil material to be excavated can be undertaken on or off-site, subject to obtaining licences.

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#### 6.3.4 ON-SITE CAPPING

Capping can be a suitable strategy for managing health risks associated with soil contamination by preventing any direct exposure pathway between contaminated soil and site users. Capping is used to isolate areas in the subsurface from the surrounding uncontaminated environment. A physical barrier such as concrete, asphalt, synthetic material liners (geo-fabric), and/or clean soil may be installed to cap the contaminated material. A cap is employed to remove exposure to the contaminated soils, where the contaminated soils are not mobile and there is no contact with groundwater and/or groundwater is not contaminated.

A Site Management Plan (SMP) is required with any capping strategy. The SMP identifies the personnel responsible for adhering to the plan and includes commitments for on-going monitoring and maintenance of the cap as well as controls of future excavations, which must be minimised or if required, the appropriate occupational health and safety procedures are adopted, and permits acquired before works are carried out.

#### **6.3.5 BIOREMEDIATION**

Soil microorganisms degrade contaminants, thereby reducing concentrations and the associated toxicity of contaminants within soils. These microorganisms are ubiquitous in soils. The TRH and BTEX compounds are readily degraded under aerobic conditions. The process of bioremediation is achieved by excavating, stockpiling (using a physical barrier to prevent leeching) and aerating the contaminated soil material. This approach requires minimal energetic output and is cost effective. However, bioremediating stockpiles require sufficient space on-site including an exclusion zone surrounding the stockpiled material, in addition, the bioremediation process can take months and may not be suitable to projects with operational and construction deadlines.

## 6.4 RATIONALE FOR SELECTION OF REMEDIATION STRATEGY

Considerations in selecting and implementing a suitable remediation strategy for a site include:

- Proven strategy: the remediation method should have a proven track record of success;
- Reliability: The remediation method should succeed in meeting the site remediation goals in the short and long term;
- Regulatory Approvals: The remediation method must be supported by the relevant regulatory authorities;
- Cost: Financial budgets provide an indication as to the likelihood of implanting a particular remediation strategy;
- Implementation Time: Timeframes associated with implementing particular strategies will govern the likelihood of their application;
- Land-Use Restrictions: If contaminated soil material is left on-site, the regulatory authority may place restrictions on the land use and/or require notification of the contamination on the property title;
- Liabilities; Maintenance and monitoring of an applied remediation strategy which does not involve
  complete removal of all contaminated materials from the site will necessitate some form of on-going
  maintenance and/or monitoring to ensure the long-term integrity of the remediation strategy. Any

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remediation strategy that does not involve the complete removal of all contaminants from the site will result in future liability for the landowner;

- Contractor Experience: The effectiveness and success of a remediation strategy partially depends on the
  experience of contractors implementing the applied remediation strategy;
- Space Requirements: Some remediation strategies require large amounts of space to spread soil and will
  only be feasible if sufficient land is available. In addition, if contaminated materials come into direct contact
  with (or are spread across) clean soils, the clean soils may also be subject to remediation once
  contaminated materials have been removed;
- Disturbance to Operations: Remediation for the site is likely to cause disruption to usual operations undertaken at the site;
- Human Health Risks: Remediation workers, site users and the general public may be exposed to hazards
  posted by contamination during the remediation (i.e. through dust generation); and
- Availability of Landfill Facilities; Excavation and off-site disposal of contaminated materials are only feasible
  if the appropriately licensed landfill facility capable to receive such waste is a reasonable distance from the
  site.

#### 6.4.1 PREFERRED REMEDIATION STRATEGY

For this site NEO considers the following approach preferred for remediation:

Excavation and off-site dispose of TRH contaminated soil;

This approach was selected for the following reasons:

- Relatively quick and cheap remediation process, given the type and extent of known contamination;
- The method aligns in with the proposed development design, which includes the excavation of soils for the basement level; and
- · This approach is demonstrated to be suitable for petroleum-based contamination of soils.

## 6.4.2 SUPERVISION

NEO recommends an experienced and qualified environmental scientist to be appointed to the project to ensure:

- The coordination of the stages for remediation and validation are appropriately implemented;
- Any deviations from the works outlined in this RAP are verified, documented and approved as required under NSW EPA, Consultants Reporting on Contaminated Land: Contaminated Land Guidelines (2020); and
- Completion of remediation works without the supervision of a qualified environmental scientist may result
  in additional requirements imposed by a third party to confirm the contamination, remediation and/or
  validation status of the site.

Any soil and/or waste materials removed or acquired to the site without sufficient classification may lead to regulatory action. This could result in project delays and additional costs imposed on the client.

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#### 7. STAGE ONE – DATA GAP CLOSURE

NEO Consulting considers that all Data Gaps have been adequately addressed.

## 8. STAGE TWO - REMEDIATION

NEO Consulting conceived a systematic sampling pattern to ensure the extent of the TRH contamination hotspots are appropriately mapped and analysed, as per the NSW EPA, *Sampling Design Guidelines*, (1995). The TRH contaminated soil material will need to be classified in accordance with NSW EPA, *Waste Classification Guidelines*, *Part 1: Classifying Waste* (2014). The sampling pattern most suited to assessing volatile and semi-volatile contaminated stockpiled material is systematic sampling. Samples must be collected quickly from the excavator bucket and should be 500mm or greater depth from the surface of the stockpile soil material, to avoid loss of contaminants for analysis.

Excavation of the test pit will be offset 2m from each hotspot location, DSI borehole BH9 (see **Figure 4, Appendix A**). The hotspot soils will be excavated and stockpiled. Excavated soil materials are to be stockpiled on-site on, impermeable heavy-duty plastic sheeting is to cover the ground surface where the stockpile is to be staged, in an allocated location on-site. Provision should be made to allow for expansion of the stockpile staging area should this be required during the works.

Soil samples will be placed in laboratory prepared 250mL soil jars, labelled appropriately and placed on ice in an esky for transport under Chain of Custody (COC) to a NATA accredited laboratory for the analysis of Chemicals. The number of samples taken of the stockpiled soil material on site will adhere to the recommended sampling frequency as per NEPM, *Schedule B2, Guideline on Site Characterisation* (2013) (**Table 6**).

**Table 6.** Stockpile Sampling Frequencies.

Stockpile volume (m³)	Number of samples			
<75	3			
75-100	4			
100-125	.5			
125 - <150	6			
150 - <175	7			
>200	8			

All reusable equipment in the sampling program must be decontaminated between each excavation with potable water followed by deionised water, including the excavator bucket. The excavated pits will be sampled at a rate of; five (5) samples, four (4) wall and (1) floor of test pit. These Validation samples will be assessed for TRH fractions only. Once the laboratory results return for both the waste classification and validation, they will be assessed to determine the next step.

If the levels of TRH fractions within the Validation samples are found to be below the Validation Criteria; HSL and ESL for Residential sites, then the hotspot can be considered appropriately remediated and off-site disposal of the

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waste material can proceed. If there are any exceedances of analytes within any of the Validation samples, excavations will need to continue in the direction of the exceedance until the levels are considered suitable for the proposed land use and Validation Criteria.

If the hotspot increases in size due to wall collapse or accumulation of an adjacent hotspot, the minimum samples required are: excavated test pit floor samples: one sample per 25m<sup>2</sup>, or one per floor <25m<sup>2</sup>; and excavated test pit wall samples: one sample per 5 linear metres, or one per wall <5 linear metres.

The excavated hotspots will need to be classified and removed off-site in accordance with the NSW EPA, *Waste Classification Guidelines, Part 1: Classifying Waste* (2014).

#### 9. STAGE THREE - VALIDATION

The remediation activities of the contaminated soils will be considered validated once the following objectives have been met:

- The Data Gaps have been investigated and considered closed;
- Each excavated hotspot has been remediated and the remaining excavations have been validated at a rate of; five (5) samples, four (4) wall and (1) floor of test pit, 2m between locations in a systematic formation, 2m offset from hotspot locations. Additional sampling batches following the same sampling pattern are required until contamination levels are below NEPM Guideline acceptable limits for HSL and ESL for Residential sites;
  - Remediation excavations will continue to beyond the boundary of contamination impact and the validation samples analytical data fall within the applicable guideline criteria.

## 9.1 SOIL VALIDATION REPORTING

All fieldwork, sample analysis, remediation findings, conclusions and recommendations will be provided in a final Site Validation Report.

#### 9.2 VALIDATION SAMPLE FAILURES

If samples collected contain insufficient soil material for chemical analysis or if sample location cannot be confidently identified, re-sampling procedures are required. This re-sampling procedure will follow the original sampling plan for both test pit samples and stockpile samples.

### 9.3 VALIDATION PROGRAM

The validation program is undertaken to confirm that remedial works are complete and successful.

Following the excavation of soils at the hotspot location, a photographic record of the excavated test pit floor and walls or ground surface will be collected for reference in the Site Validation Report.

#### 9.5 VALIDATION OF IMPORTED SOIL MATERIAL

If soil materials are required to be imported onto the site, soils must be classified as virgin excavated natural material (VENM) and will also be analysed in accordance with the requirement of the NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste (2014), at a rate of one sample per 100m<sup>3</sup>. All VENM imported material must

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be accompanied by VENM certification. Excavated natural material (ENM) soils may be acceptable and will be analysed and classified in accordance with the NSW EPA, *Resource Recovery Order* (2014). Both VENM and ENM will be visually inspected for ACM and will be analysed for asbestos if suspected.

To validate the backfill soil material, a minimum of three (3) composite sample (comprising of four (4) randomly collected subsamples) will be collected and analysed for heavy metals, TRH, BTEX, PAH, metals, pesticide-related organochlorine and organophosphate compounds to confirm that concentration levels are below NEPM Guideline acceptable limits for the intended use of the site.

If larger quantities of backfill soil material is required, regular sampling pattern will be required to demonstrate that the material is; below the NEPM Guidelines acceptable limits for the intended use of the site; or the 95% UCL of the average concentrations of the backfill soil material is below the NEPM Guidelines acceptable limits for the intended use of the site.

#### 9.6 DURATION OF REMEDIATION AND VALIDATION WORKS

Based on the proposed scope of remediation and validation works for the site, it can be expected the works will take approximately four to eight weeks following receipt of all regulatory approvals. This timeframe does not include the reporting of works which could be expected to be completed approximately four weeks after completion of the remediation and validation works.

# 10. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The quality assurance/quality control (QA/QC) procedures ensure the data collected is sufficiently accurate, precise and reproducible to be used for the Site Validation Report. QA/QC should be done so in accordance with NEPM (2013) and relevant Australian standards and guidelines.

Table 7. QA/QC Frequencies

	Inter laboratory	Intra laboratory	Rinsate	Spikes and blanks
Sample frequency	1 in 20	1 in 20	1 per day	1 set per day

Soil samples are to be collected using laboratory prepared glass jars with Teflon lid inserts. Standard identification labels are to be used which state the following; project reference, sample reference, sample depth, date, sample/personnel.

All reusable sampling equipment is to be decontaminated between sampling locations to prevent crosscontamination. Decontamination involves:

- Washing equipment with potable water;
- Subsequent equipment in deionised water; and
- Rinsing equipment in demineralised water and wiping dry with a clean lint free cloth (cloth replaced after each sample).

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#### 11. CHEMICAL ANALYSIS OF SAMPLES

All samples are to be couriered to a NATA accredited laboratory under suitable Chain of Custody (COC). The COC will clearly state the project reference, sample reference, analytes to be tested, date, sampler, project manager and all relevant contact details.

All samples are to be placed in an iced esky once collected and remain below 4°C at all times/ Asbestos samples are not required to be kept on ice.

Inter-laboratory QA/QC samples are to be forwarded from the primary laboratory to a secondary NATA accredited laboratory for analysis.

The primary laboratory will conduct in-house routine QA/QC procedures including:

- Reagent blanks;
- Spike recoveries
- Intra-laboratory duplicates;
- Calibration standards;
- QC statistical data; and
- Control standards and recovery plans.

# 12. DATA QUALITY OBJECTIVE

In accordance with the NEPM APPENDIX B OF SCHEDULE B2 and the NSW EPA, *Guidelines for the NSW Site Auditor Scheme* (3<sup>rd</sup> edition) (2017), the process of developing Data Quality Objectives (DQO) was used to determine the appropriate level of data quality needed for the specific data requirements of the project. The DQO process that was applied for this assessment is documented below.

Table 8. DQOs Step 1-7

Step 1: State the problem.	TRH contamination identified in borehole BH9 of Lot 3 and requires remediation.	
Step 2: Identify the	Remediation and validation required for the site to be considered suitable for its intended	
decision.	land use as proposed hotel. The decisions required to meet these remediation and	
	validation goals are as follows:	
	<ul> <li>Was the Data Gap Closure, Remediation and Validation design appropriate to achieve the aim of the RAP?</li> </ul>	
	Is on-site contamination capable of migrating off-site?	
	Was all waste material classified appropriately and disposed of through a licenced	
	landfill facility?	
	Were the imported backfill material certified as suitable for the proposed landuse?	

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Step 3: Identify inputs into the decision.	<ul> <li>Are there any unacceptable risks to the future on site or off-site receptors in the soil or groundwater following remediation?</li> <li>Is the site suitable for its intended land use?</li> <li>Identification of issues of potential environmental concern;</li> <li>Appropriate identification TRH contaminated locations;</li> <li>Systematic soil sampling for test pit and stockpiled material;</li> <li>Appropriate quality assurance/quality control to enable an evaluation of the reliability of the analytical data; and</li> <li>Screening sampler analytical results against appropriate assessment criteria for the intended land use.</li> </ul>
Step 4: Define the boundaries of the study.  Step 5: Develop the analytical approach.	<ul> <li>The project boundaries are: <ul> <li>Lateral boundary: The legally defined area of the site;</li> <li>Vertical boundary: The soil interface to the maximum depth reached during sampling; and</li> <li>Temporal boundary: Constrained to a single visit to the site, unless additional sampling is required for the soil contamination.</li> </ul> </li> <li>If existing Data Gaps remain open, unacceptable risks may persist into the future. Data Gaps must be addressed and closed to ensure on-site and off-site receptors are not at an unacceptable risk.</li> <li>If the findings of the Remediation and Validation process identify 250% exceedance of the adopted assessment criteria TRH, Benzene and Xylene in soil, then further assessment may be required to confirm suitability of the site.</li> <li>For analytical results across the Data Gap Closure, Remediation and Validation process, if adopted RPD for QC are not met, further assessment may be required to confirm suitability of the site.</li> </ul>
Step 6: Specify performance or acceptance criteria	To determine if the soils are within acceptable ranges, we employ the following NEPM criteria:  • The 95% UCL is calculated for the mean concentration of each contaminant for each individual sample across a sampling plane (eg. surface samples, depth samples), which provides the probability that 95% of the data obtained will meet the acceptance criteria; and  • a limit on decision error will be 5% that the conclusion may be incorrect.

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Step 7: Develop the	Systematic sampling pattern for the hotspot locations and stockpiled material will provide		
plan for obtaining	suitable coverage of the site to produce reliable data in alignment with the Data Quality		
data.	Indicators (DQIs) to cover precision, accuracy, representativeness, completeness and		
	comparability (PARCC).		
	Validation data is collected to confirm the following:		
	<ul> <li>The effectiveness of the implemented remediation methods and strategies;</li> </ul>		
	<ul> <li>Any contaminated soils on site are sufficiently contained/capped;</li> </ul>		
	Any imported soils to be used as clean backfill are classified as appropriate for the		
	site's intended land-use; and		
	Record the site as being suitable for its intended land-use.		
The DQOs align	Yes		
with the CSM			

# 13. DATA QUALITY INDICATORS

An assessment of the Data Quality Indicators (DQIs) has been undertaken in accordance with the NEPM Appendix B of Schedule B2 to provide an evaluation of the field and laboratory procedures and ensure appropriate documentation for this RAP.

Table 9. Field Data Quality Indicators

Completeness	The RAP ensures that all critical locations will be sampled, and samples will be collected within the proposed sampling pattern (systematic for test pit and stockpile) at the appropriate depths during a single visit to the site (unless additional hotspots are identified or the extent of contamination from one of the hotspots is extended). This plan also aligns with Standard Operating Practices (SOP), to produce valid and reproducible data. NEO's qualified environmental consultants are experience and will
	ensure compliance and completion of all sample recording, labelling and COC procedures.
Comparability	The RAP aligns with SOP to produce qualitative data. NEO's qualified environmental consultants will sample uniformly to ensure that each individual sample collection contains sufficient soil (g) to produce a dataset that is reflective of the environmental conditions of the site at time of collection. All samples will be handled and stored in a

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	manner that maximises the preservation of all potential CoPC within the soil samples.  Climatic and physical conditions at the time of sample collection will be recorded.
Representativeness	The RAP aligns with SOP to produce a qualitative dataset that is representative of soil contamination on site. NEO's qualified environmental consultants will ensure sample collection, handling, storage and transfer is appropriate for soil samples. Additionally, samples reflect environmental conditions at time of collection and samples are homogenised to maximise detection during laboratory analysis.
Precision	The RAP aligns with SOP to produce qualitative data that measures the variability of results. The primary technique for evaluating field precision is by collection of duplicate samples, to measure the difference in response between two (2) different samples from the sample location. NEO's qualified environmental consultants will ensure that duplicate frequency is appropriate to sampling plan and area of site.
Accuracy	The RAP aligns with SOP to produce qualitative data that measures bias within the results. NEO's qualified environmental consultants will ensure all COC procedures are carried out appropriately to minimise incidents of cross contamination or incorrect handling and storage of samples.

Table 10. Laboratory Data Quality Indicators

Completeness	The allocated NATA accredited laboratory produce reliable and thorough datasets. All samples will be analysed for CoPC using an appropriate and standardised extraction method and analytical instrument. Samples to be received, extracted and injected within specified holding times. The laboratory qualified environmental organic chemists will ensure completion of COC procedures, wet chemistry, data integration and calculation.
Comparability	Analytical procedures within the NATA accredited laboratory are specialised and standardised for samples. The qualified environmental organic chemists will determine the appropriate extraction methods and analytical instruments to be used based on response factor and ability to target CoPC. Spikes and surrogates to be chosen based on appropriateness to avoid coelution with contaminants indigenous to the samples and across varying retention times to map response factor. The chosen spikes and surrogates to be used for all samples and analysis to be completed within

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	the same batch to account for analytical instrument calibration (in addition system
	blanks support instrument calibration baseline results).
Representativeness	The NATA accredited laboratory will undertake procedures to ensure the data is representative of the site by using appropriate extraction and analytical instrument methods. The qualified environmental organic chemists will follow COC procedures; ensure that extraction methods are specialised for each potential contaminant and standardised across all samples; and use analytical instruments suitable for the sample type, targeted CoPC, extraction method, instrument sensitivity, response factor and detection limit.
Precision	Quantitative measures undertaken by the NATA accredited laboratory include field and laboratory duplicates. The qualified environmental organic chemists will undertake a field duplicate analysis that measures the precision of field sampling and maps the potential heterogeneity of contamination across a field sampling location. The laboratory duplicate procedure is undertaken by taking two (2) laboratory subsamples for extraction and analysis from the one (1) field sample in the collection container (250mL jar). The two (2) laboratory sub-samples map the potential heterogeneity of contamination that can occur within the one (1) field samples collection.
Accuracy	Quantitative measures undertaken by the NATA accredited laboratory's qualified environmental organic chemists include the analysis of field, rinsate and method blanks; spike and surrogate analysis to measure response factor and retention time; laboratory control samples; appropriateness of analytical method; and timing and completion of analysis.

# 14. ENVIRONMENTAL MANAGEMENT PLAN

A site-specific Environmental Management Plan (EMP) will be produced for the remediation works. The EMP will be monitored by an Environmental Scientist who will be on-site during all critical remediation and validation works. The EMP is outlined below and will detail the following:

- · Site access;
- Working hours;
- · Stormwater and soil management;

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- Traffic management;
- · Dust and odour control;
- Noise Control; and
- · Work health and safety

All remediation and validation works must be carried out in accordance with relevant Australian standards and guidelines.

Contact details: Nick Contractors: TBC

#### 14.1 GENERAL

The site manager for the remediation contractor should have a thorough understanding of the content of the RAP, associated EMP, Work Health & Safety Plans and should ensure all workers and sub-contractors involved in the remediation and validation works understand the contents of these documents.

#### 14.2 SITE ACCESS

The remediation contractor is responsible for securing the site with adequate barriers and warning signs to prevent unauthorised access. All workers must sign in daily, and visitor must sign a visitor logbook outlining the purposes of the visit, representing company and time-on/time-off site.

#### 14.3 WORKING HOURS

Site operating hours for remediation and validation works will be between 7:00am and 5:00pm Monday to Fridays and 8:00am to 1:00pm on Saturdays. No site works are to be undertaken on Sundays and Public Holidays.

#### 14.4 DEMOLITION & ASBESTOS MANAGEMENT

All demolition works are to be carried out in accordance with relevant NOHSC, SafeWork Australia and WorkCover NSW Codes of Practice. Any asbestos identified within the building materials should be managed in accordance with relevant Codes of Practice.

#### 14.5 STORMWATER & SOIL MANAGEMENT

Appropriate measures must be taken to ensure that potentially contaminated sediment and water does not leave the site. This could include, but is not limited to:

- Stormwater flowing through the site should be avoided, if possible, stormwater should be diverted to runoff outside the site;
- Construction of stormwater diversion channels and linear drainage sumps with catch pits in the remediation area to divert and isolate stormwater from any contaminated areas;
- Discharge of any groundwater and/or surface water to drains or water bodies must meet the appropriate discharge consent conditions under relevant Australian standards and guidelines; and
- Installation of sediment traps such as sediment fencing should be installed where stormwater may flow offsite.

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Soil material to be stockpiled on-site must be done in such a way that the material is well contained and surrounded with adequate erosion controls such as sediment fencing. If stockpiles are to remain on-site for an extended period, they must be covered with geo-fabric or heavy-duty plastic to avoid erosion. Stockpiles must be maintained to allow for identification in the case of them being reused on site.

#### 14.6 TRAFFIC MANAGEMENT

All vehicle traffic is to use only the routes approved by the Goulburn Mulwaree Council to and from the approved landfill. All loads are to be covered and wetted to ensure no material or dust escape the load. Prior to leaving site, each truck must be inspected for cleanliness. If trucks have sediment on the wheels, chassis and/or body, they must be washed down within the designated wash bay until confirmed 'clean'. No sediment track marks are to be visible on public roads.

#### 14.7 DUST & ODOUR CONTROL

Dust and odour shall be monitored during the remediation and validation works and must be managed by the remediation contractor. Management options include, but are not limited to:

- · Water carts to wet dust-prone surfaces;
- Mist cannons/dust suppression sprinklers on stockpiles and excavation activities which generate dust;
- Covering stockpiles with plastic sheeting/geo-fabrics;
- · Restricting stockpile heights to a maximum height of 2m above ground level;
- Ceasing remediation and validation works during extreme weather events such as high winds and heavy rain; and
- Odorous materials may be placed in a bunded area and covered with impermeable plastic sheeting, if
  odours are reported on site, the on-site environmental scientist will notify a technician, who may produce
  an additional report.

#### 14.8 NOISE CONTROL

Noise and vibration will be restricted to a reasonable level. All machinery on-site must ensure noise levels do not exceed statutory levels. Working hours are restricted to the above mentioned 30 days prior to remediation and validation works commencing, every owner and occupier of land within 100m of all site boundaries are to be notified.

#### 14.9 WORK HEALTH & SAFETY PLAN

The remediation contractor is responsible for implementing a site-specific Work Health & Safety Plan (WHS Plan) prior to remediation and validation works in accordance with relevant Australian standards and guidelines. The WHS Plan must identify hazards and assess risks which may be imposed on site workers, occupants and the public. The WHS Plan should detail subjects as vehicle decontamination, suitable Personal Protective Equipment (PPE) and safety controls. The WHS plan must be read and understood by site workers as part of their site induction, prior to beginning any remediation and validation works.

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# 15. WASTE TRACKING & DISPOSAL

All transport and disposal of waste must be done so in accordance with relevant Australian standards and guidelines. All licenses and approvals required for disposal of the material will be obtained prior to removal of the materials from the site.

Details of all soils removed from the site must be documented by the remediation contractor. Weighbridge dockets, landfill receipts and consignment disposal confirmation are to be provided to the on-site environmental scientist and remediation contractor.

A truck log will be kept by the remediation contractor detailing disposed loads against on-site origin All soil material to be removed from the site must be classified in accordance with NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste (2014). No soil material is to leave the site without such classification.

#### 16. DUTIES OF ON-SITE ENVIRONMENTAL SCIENTIST

The duties of the on-site environmental scientist include:

- Ensure the RAP, Work Health & Safety Plan, Environmental Management Plan and any other plans or processes are strictly followed;
- Supervise all contaminated material excavations, handling, stockpiling and loading;
- Supervise the environmental compliance of contractors and site workers;

Undertake asbestos air monitoring in accordance with SafeWork NSW Codes of Practice and when ACM contaminated hotspots or suspected ACM contaminated soils are to be excavated, handled, stockpiled and/or loaded for transport;

If strong odours are reported, regularly monitor the open excavation with a PID;

Inspect sediment and stormwater controls;

Inspect the roadway in the vicinity of the site for soil materials being tracked off-site;

- Report non-compliances to the principal environmental representative who will report to the appropriate regulatory body
- Conduct validation sampling in accordance with the validation program as requested by the principal environmental representative; and
- Maintain a daily site log with relevant site data.

# 16.1 NON-COMPLIANCES

If any works are suspected of not following procedures outlined in the RAP, WHS Plan or any other document which governs the remediation and validation work procedures, this will be reported immediately to the principal environmental representative. The on-site environmental scientist has the authority to cease all remediation and validation works until the issue is resolved.

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#### 17. UNEXPECTED FINDS

In the event that any unexpected materials, contamination and/or underground storage tanks (USTs) are discovered, all remediation and validation works must cease, the on-site environmental scientist is to be notified and refer to the Unexpected Find Protocol.

If during remediation or validation works, significant contamination and/or odours are discovered, works in that area must cease immediately, the on-site environmental scientist must the notified, and management of cross-contamination must be established. If required, the administering authority will be notified within 2 working days of significant unexpected discovery and informed of the remediation actions taken.

The sampling strategy for unexpected material which could potentially be contaminated will be designed by the principal environmental representative. The objective of the strategy will be to determine the nature of the material, whether it is hazardous, and if so, what apply appropriate guideline criteria for its classification, remediation and/or validation.

The sampling frequency for the unexpected materials will meet the following minimum requirements:

#### **Excavation Test Pit Floor:**

- One (1) sample per 25m<sup>2</sup>, with a minimum of three (3) samples collected; and
- · Samples will be analysed for CoPC as determined by the principal environmental representative.

#### **Excavation Test Pit Wall**

- One (1) sample every 5m (from each horizon/material type, within the impacted area); and
- Samples will be analysed for CoPC as determined by the principal environmental representative.

The on-site environmental scientist will be required to document and report all discoveries of unexpected materials.

#### 18. CONTINGENCY MANAGEMENT

Because subsurface conditions can vary over limited distance, the remediation and validation plan must be dynamic and capable of adapting to and unexpected condition and materials. Unexpected conditions and materials can be result in harm to human and environmental health and must be managed appropriately. **Table 11** below summarises conditions and materials which may be discovered during remediation and validation works.

Table 11. Contingency Plan

Unexpected Condition/Material	Remedial Action
Excessive dust	Use mist cannons of dust generating activities; employ water carts to wet site roads
Excessive rain	Maintain stormwater divergent channels and drainage sumps; maintain site roads and cover high traffic areas with gravel; cover stockpiles with heavy duty plastic and surround with sediment fencing; shut down site until stormwater is manageable.
Excessively wet materials	Leave in-situ if already stockpiled, dewater; surround with sediment fencing

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6 1:	Ports of the state
Sediment pond water for	Perform water in-situ treatment methods until acceptable analytical levels
discharge, analytical exceedance	are reported. Arrange off-site disposal by an appropriately licenced
	contractor.
Excessive odours	On-site scientist to constantly monitor with PID; remediation contractor is to
	upgrade PPE if necessary.
Excessive noise	Identify source of noise, inspect equipment and repair accordingly; provide
	noise silencers if necessary/
Compliant management	Notify remediation contractor, principal environmental representative and
	on-site environmental scientist. Report complaints as per internal WHS plan
	procedures.
Sediment fence failures	Cease works and repair; change sediment control method (hay bales,
	geofabric)
Oil/fuel spill	Cease works, refer to WHS plan, utilise spill kit, move source to above
	impermeable surface.
Chemical spill	Cease works, refer to WHS plan, notify on-site environmental scientist
	immediately.
Equipment/ Machinery failures	Maintain spare parts, maintain alternate rental options;
Discovery of cultural and/or	Cease works, notify on-site environmental scientist immediately.
building heritage items	
Discovery of drummed material	Cease works, notify on-site environmental scientist immediately.
Discovery of underground storage	Cease works, notify on-site environmental scientist immediately.
tank (UST)	100
Excavation extends below the	Cease works, notify on-site environmental scientist immediately.
water table into soil materials	27 80
confirmed to consist of Potential	
Acid Sulphate Soils (PASS)	
Asbestos Containing Material	Cease works, notify on-site environmental scientist immediately. Employ
(ACM)	appropriate PPE, wet the area to limit dust generation, cover with heavy
	duty plastic and create a 10m exclusion zone around excavation.
Non-spadable sludge	Contact on-site environmental scientist; employ appropriate PPE,
s terroscoper com : • Proposition (Profit Selection of the Selection (Profit Selecti	segregation and bunding of discovered material, use of odour suppressant;
	cover with heavy duty plastic; environmental scientist to employ appropriate
	sampling of material; off-site disposal will require appropriate waste
	classification.
	Clussification.

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#### 18.1 GROUNDWATER CONTINGENCY

If groundwater is discovered during the remediation and validation works, an assessment into the impact of the proposed development is recommended.

# 19. REGULATORY APPROVALS & LICENCES

#### 19.1 DUTY TO REPORT

Under section 60 of the Contaminated Land Management Act 1997, the owner of land which has become contaminated, whether before or during the owner's ownership, must notify the EPA in writing.

#### 19.2 STATE ENVIRONMENTAL PLANNING POLICIES

The State Environmental Planning Policy No 55 (SEP 55) – Remediation of Land sets the regulatory framework for contaminated land and remediation works for NSW. SEP 55 defines the requirements for remediation work to be carried out. The remediation works to be carried out at the site meet Category 2 criteria.

#### 19.3 GOULBURN MULWAREE COUNCIL

All remediation and validation works are to be undertaken in accordance with Goulburn Mulwaree Council.

#### 19.4 ASBESTOS REGULATIONS

Asbestos must be managed in accordance with the Work Health and Safety Act (2011), the Work Health and Safety Regulation (2011), How to Safely Remove Asbestos: Code of Practice, SafeWork NSW Codes of Practice and NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste (2014).

Asbestos removal must be completed under the supervision of a NSW Licensed Asbestos Assessor (LAA) and by a licensed asbestos removalist appropriately licensed to carry out Class A (friable) or Class B (non-friable) removals. SafeWork NSW must be notified by the licensed asbestos removalist contractor 5 days before the asbestos removal work is scheduled to commence.

Asbestos air monitoring should be undertaken at the site while asbestos removal works and/or excavation works within areas suspected to be contaminated with asbestos are being completed. The asbestos removalist contractor is required to notify SafeWork NSW if respirable asbestos fibre levels reach or exceed 0.02 fibres/mL. Asbestos air monitoring must be undertaken in accordance with SafeWork NSW Codes of Practice.

If a structure or plant is suspected of containing asbestos and must undergo emergency demolition, notification to SafeWork NSW must be made. This is to be done by the principal contractor in site and/or the licensed asbestos removalist.

# 19.5 PROTECTION OF THE ENVIRONMENT OPERATIONS (WASTE) REGULATIONS 2014

Part 7 of the POEO (Waste) Regulations 2014, details the special requirements relating to asbestos waste and must be followed when dealing with asbestos waste transportation and disposal.

The general requirements applying to the transportation of asbestos include:

 Bonded asbestos must be securely packed at all times during transportation (i.e. wrapped in a double layer of heavy – duty plastic);

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- · Friable asbestos must be kept in a sealed container at all times during transportation;
- · Asbestos contaminated soils must be wetted down;
- All asbestos waste (other than bonded or friable asbestos material) including asbestos contaminated soils
  must be covered and leak-proof during transportation; and
- Reporting on transportation of asbestos waste must follow Section 79, Part 7 of the POEO (Waste)
   Regulations 2014.

The general requirements applying to the disposal of asbestos include:

- Only appropriately licensed landfill facilities are allowed to receive asbestos waste;
- The person transporting the asbestos waste must notify the landfill facility manager that the load contains asbestos;
- Unloading the asbestos waste must be done so that no dust it generated and employ dust suppression techniques; and
- Once deposited at the licensed landfill facility, asbestos waste it to be stored appropriately.

#### 19.6 ADDITIONAL LICENSING

- Transporters of contaminated waste are required to be appropriately licensed to transport such wastes.
- Waste classification documentation and landfill facility receipts must be kept on fil for the site validation program.
- Appropriate dewatering licenses must be obtained if water is to be discharged from the site.
- The remediation contractor should prepare an appropriate Construction Environmental Management Plan (CEMP), WHS Plan and other plans required by Goulburn Mulwaree Council Development Application.

# 20. CONCLUSION

The property located at 16 George Street, Marulan NSW 2579 (the site) can be made suitable for its intended landuse subject to implementation of the following:

- Data Gap Closures;
- · Revision of this RAP, if required;
- · Adequate remediation and validation works in accordance with this RAP; and
- A Site Validation Report should be prepared for the site detailing the successful methodology of remediation and validation works to make the site suitable for the proposed childcare centre.

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#### REFERENCES

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#### LIMITATIONS

The findings of this report are based on the scope of work outlined in Section 2. NEO 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 site are the professional opinions of NEO personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, NEO assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of NEO, or developments resulting from situations outside the scope of this project.

The results of this assessment are based on the site conditions identified at the time of the site inspection and validation sampling. NEO will not be liable to revise the report to account for any changes in site characteristics, regulatory requirements, assessment criteria or the availability of additional information, subsequent to the issue date of this report.

NEO is not engaged in environmental consulting and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes.

**NEO Consulting Pty Ltd (NEO)** 

Prepared by:

Reviewed by:

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Environmental Scientist

Nick Caltabiano
Project Manager

White.

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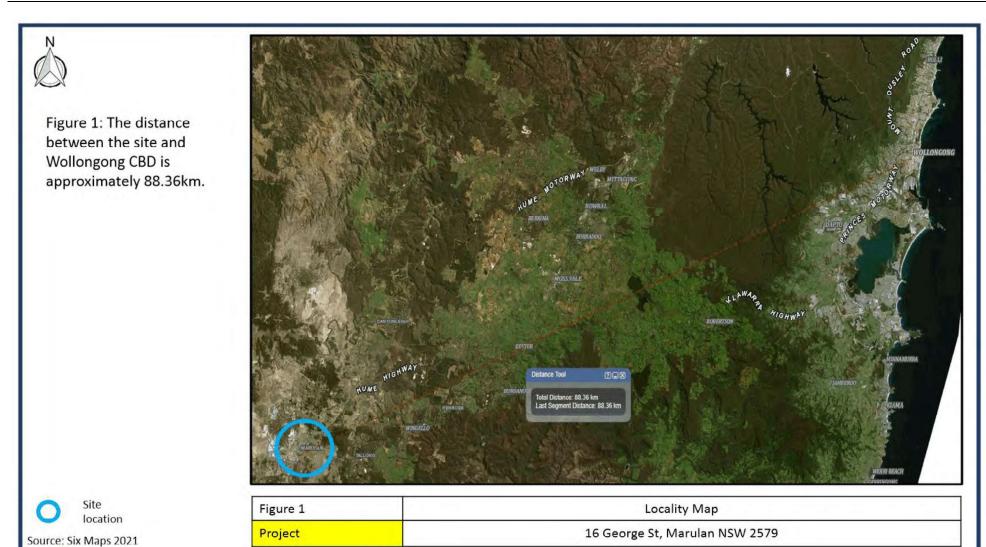
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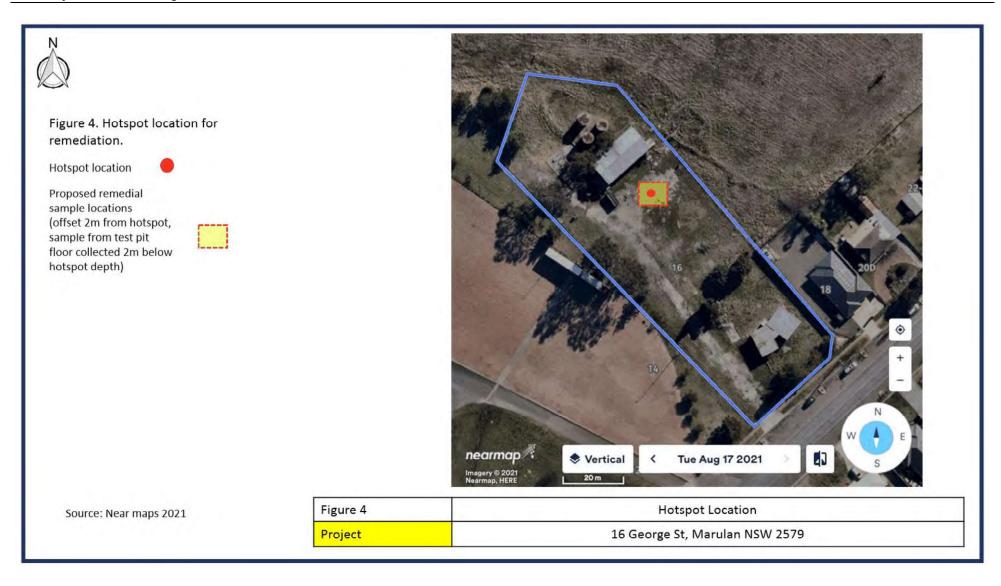
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Item 15.3- Attachment 2

# **APPENDIX A**

Figures and Photographic Log





Attachment 3a: Water NSW Pre-gateway Referral\_10 June 2021



PO Box 398, Parramatta NSW 2124 Level 14, 169 Macquarie Street Parramatta NSW 2150 www.waternsw.com.au

10 June 2021

David Kiernan Senior Strategic Planner Goulburn Mulwaree Council Locked Bag 22 GOULBURN NSW 2580 Contact: Stuart Little
Telephone: 0436 948 347
Our ref: D2021/66096

Dear Mr Kiernan,

#### Planning Proposal for Additional Permitted Uses – REZ/0002/2021

I refer to your email of 7 May 2021 regarding a Planning Proposal for 14 & 16 George Street Marulan and 159 Rifle Range Road Goulburn (REZ/0002/2021) that seeks to expand the range of uses allowed at an existing truck stop at Marulan and to facilitate the permissibility of a dwelling on a parcel of land at Goulburn. WaterNSW's concerns relate to the protection of water quality in the Sydney Drinking Water Catchment.

The proposed additional proposed uses for a food and drink premises and hotel/motel accommodation and pub for the Marulan site will require significantly improved sewerage management arrangements. The site is unsewered and the Marulan sewage treatment plant (STP) is currently at capacity. There is also no current site-specific development control plan for the site to address the sewerage management issue. The Proposal flags that a DA will be lodged these uses and that any consent issued will condition the development based on connection to the reticulated sewerage network and completion of the upgrade of the STP. WaterNSW also notes that any DA would need to demonstrate a neutral or beneficial effect on water quality and be referred to WaterNSW for concurrence under State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011. WaterNSW does not object to the progression of the Planning Proposal on the basis that the sewerage management issue will be addressed at DA stage and prior to any occupation of new development associated with the uses put forward by this Proposal.

We understand that contamination assessments are currently being undertaken for the Marulan site. We have not had the benefit of that information in undertaking our current assessment of the Planning Proposal. As any site contamination may also have implications for water quality, we would ask that the Planning Proposal be referred to us again at exhibition stage with the accompanying contamination assessment reports.

We have no objections to the Proposal with respect to 159 Rifle Range Rd and we support Council's rationalisation of the planning provisions for northern parcel of land at this site

Detailed comments are provided in Attachment 1 while Attachment 2 includes a relevant Strategic Land and Water Capability Assessment map for the 159 Rifle Range Road site.

If you have any questions regarding the issues raised in this letter, please contact Stuart Little at stuart.little@waternsw.com.au.

Yours sincerely

**ALISON KNIHA** 

**Catchment Protection Planning Manager** 

#### ATTACHMENT 1 - Detailed Comments

#### 14 & 16 George Street, Marulan - Marulan Truckstop 31

The proposal in Marulan is developer-led and seeks to expand the ranges of uses allowed at Truckstop 31 as part of a wider proposed redevelopment of the site. The Marulan Truckstop 31 site comprises two lots, 14 George Street (Lot 2 DP 1053945) and 16 George Street (Lot 3 DP 1053945), occupying a combined area of approximately 4 ha. Both lots are currently zoned IN1 General Industrial under the *Goulburn Mulwaree Local Environmental Plan 2009* (the LEP). An existing service station occurs on Lot 2 and includes a fuel forecourt and restaurant. Lot 3 adjoins Lot 2 but is substantially smaller and contains a small residential property.

The Proposal seeks to make permissible with development consent the use of food and drink premises for Lot 2 and motel/hotel accommodation and pub with ancillary bottle shop for Lot 3. This will be done by amending Schedule 1 of the LEP to allow a fast food restaurant on Lot 2 and a motel, pub and bottle shop on Lot 3. This would overcome the current IN1 zoning restrictions that currently prohibit retail premises and tourist and visitor uses within the IN1 zone.

As noted in the Planning Proposal, the main constraint to the redevelopment of the service station and the associated uses is sewerage connection and management. While the Truckstop area is generally serviced by mains water and infrastructure, the site is not connected to the Marulan sewer network and is currently reliant on the use of on-site septic tanks. Additionally, Marulan sewerage treatment plant (STP) is at capacity and is unable to accommodate additional sewerage generated as a result of the proposed uses. No site-specific development control plan provisions are proposed for the site, leaving the sewerage issue to be managed by means of the development consent process (discussed below). We note the intention to connect the site to the reticulated sewage network once the STP upgrade has been completed.

The Planning Proposal identifies that the site redevelopment is being staged to coincide with the STP upgrade. A current development application (DA) is being progressed on part of the service station upgrade which omits Lot 3 (intended for motel/hotel and pub) and that part of Lot 2 where the fast food restaurant is anticipated to be sited. Further DAs will be submitted for the remaining areas subject to successful progression of this Planning Proposal. It is intended to manage the 'sewerage' constraint by conditioning any future development consent so that the operation/occupation of any premises will be subject to completion of the STP upgrade and connection to the reticulated sewerage network. Additionally, under the provisions of the SDWC SEPP, any future DA will be required to have a neutral or beneficial effect (NorBE) on water quality and will require the concurrence of WaterNSW.

Given the above intent and provisions, we believe that the sewerage management issue can be addressed at DA stage and are generally supportive of Council's proposed approach regarding the conditioning of the redevelopment to align it with the upgrade of Marulan STP. Any proposed conditions on the sewerage management issue will need to reasonably relate to the development and have appropriate certainty and finality. These are matters than can be addressed through the DA assessment and consent process.

#### 159 Rifle Range Road, Goulburn

The Planning Proposal includes amendments to the LEP to rectify a planning anomaly that has resulted from the construction of the Hume Highway across 159 Rifle Range Road, Goulburn, which has given rise to divergent zonings and planning controls across the land. This is a council-initiated component of the Planning Proposal.

159 Rifle Range Road is a single large lot of approximately 119 ha which is bisected by the Hume Highway. The northern parcel of the Lot is about 76 ha and zoned E2 Environmental Conservation with a Minimum Lot Size (MLS) of 100 ha. The southern parcel is about 46 ha and zoned RU6 Transition with a MLS of 20 ha and includes an existing dwelling house. The main issue is that the northern E2 portion of the land prohibits a residential use while the 100 ha MLS prevents a dwelling entitlement. The Proposal seeks to amend Schedule 1 of the LEP to permit development for the purposes of a dwelling house with consent and to adopt a MLS of 70 ha for the site. This would

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enable the land to be subdivided and facilitate the establishment of a single dwelling house on the northern portion, thereby enabling each parcel to be managed under separate ownerships.

We note that the area is unsewered. A non-perennial natural drainage flows from the North-West to the South-East through the site, with minor tributaries extending northward. The Planning Proposal notes that the large allotment size and the location of the drainage path enables a dwelling to be sited away from watercourses/drainage paths and that there is sufficient land area to accommodate on-site wastewater facilities without adversely affecting water quality. WaterNSW has also conducted a Strategic Land and Water Capability Assessment (SLWCA) for the site which confirms that the site has sufficient land of LOW or MODERATE risk to accommodate a dwelling house (see Attachment 2). There is also sufficient area to meet required effluent management area (EMA) buffer distances from waterways for any proposed on-site sewage treatment system.

WaterNSW has no objection to this aspect of the Planning Proposal and supports Council's approach of reconciling the planning provisions applying to 159 Rifle Range Road.

#### **Contamination Risk**

The potential risk of land contamination is a relevant matter with respect the Truckstop 31 site. While the Planning Proposal notes that the subject site is not identified on the Councils local contaminated land register or identified as significant contaminated land, the service station has been present on Lot 2 for approximately 50 years. The Planning Proposal notes that for Lot 2, a degree of contamination is likely but that the level of contamination is unknown. However, the Proposal infers that Lot 3 is unlikely to be contaminated.

The current Planning Proposal infers that further contamination assessment of the site is not required. However, having spoken with a relevant Council officer, we now understand that a contamination assessment is underway. WaterNSW's main concern is the potential effect of contaminated land on water quality, and the effect of leaching and mobilisation of contaminants during construction of the sites. We support a precautionary approach that further explores the potential for contamination risk associated with Lots 2 and 3.

We ask that the Planning Proposal be updated to reflect the contamination assessments being undertaken. We also ask that further background information be provided with respect to past land uses for Lot 3 and to clarify whether further detailed contamination assessments are proposed for this Lot. As we do not have the benefit of the contamination assessments at this time of this referral, we ask that the Planning Proposal be referred back to us during the public exhibition phase so that we may further understand the contamination risk associated with the site and the potential implications for water quality.

#### Strategic Land and Water Capability Assessments

The current Planning Proposal does not include information relating to SLWCAs.

For 14 and 16 George Street Marulan, appropriate SLWCAs for 'restaurants' or 'food and drink premises' have not been produced by WaterNSW, and there are no provisions for SLWCAs for hotels/motels or tourist and visitor accommodation. However, these uses will require appropriate amenities and will be a concentration point for visitors. As the site is currently unsewered, any development of the site to give effect to the said uses should be based on connection to the reticulated sewer and upgrade of the STP as indicated by the Planning Proposal.

For 159 Rifle Range Road, the most applicable SLWCA for the proposed dwelling and building entitlement is 'Residential unsewered Lots 4,000 sqm to 2 ha' (see Attachment 2). This SLWCA shows that the water quality risk for the site varies from LOW to EXTREME, with areas of HIGH and EXTREME risk being associated with waterways and drainage features. Areas of LOW and MODERATE risk occur in the north-west and MODERATE risk areas occur in the north. There is sufficient room for a dwelling house to be accommodated on site and for any EMA to meet the required 100 m EMA buffer distance requirements from waterways. Under State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011, any future development of the site will need to have a NorBE on water quality and be required to comply with relevant WaterNSW current recommended practices (CRPs) or standards at least equivalent to these.

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#### State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011

The Planning Proposal responds to the SEPP, noting the sewerage constraints to the Marulan Truckstop 31 as previously described. We believe that the ability of the intended uses to provide later developments that can deliver a NorBE on water quality will heavily depend upon the ability to connect to the sewer and the capacity of the STP. We generally agree with the statements made regarding 159 Rifle Range Road. The section on the SEPP currently references the need for developments to have a NorBE on water quality. It would also benefit by recognising that new development should incorporate WaterNSW's CRPs or otherwise apply standards at least equivalent to those. The section could also reference that development in the Catchment requires the concurrence of WaterNSW.

#### **Direction 5.2 Sydney Drinking Water Catchment**

The Planning Proposal includes a response to the provisions of section 9.1 Direction Sydney Drinking Water Catchment. The Direction requires Planning Proposals to be consistent with the SEPP, give consideration to the outcomes of any relevant SLWCA, and zoned Special Areas as stated in the Direction. No Special Areas are affected by this Proposal, so this matter is not relevant

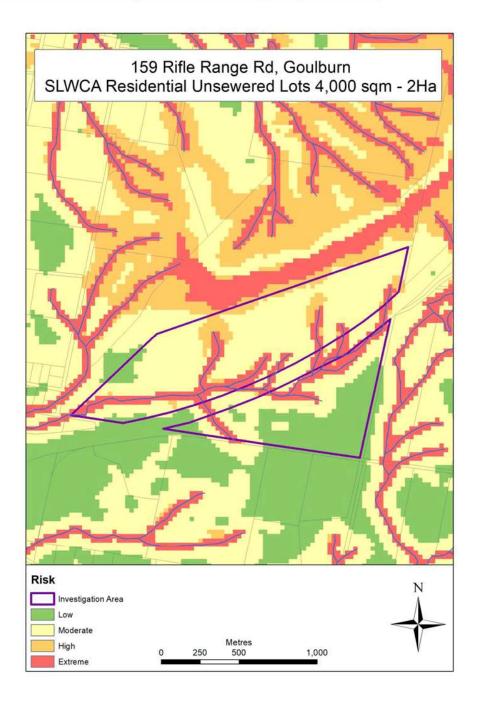
The response discusses the sewerage constraints of the Marulan site, as previously described, and the staging of the redevelopment to coincide with the STP upgrade. It also gives consideration to 159 Rifle Range Road, Goulburn being unsewered.

This section recognises that the SEPP applies to DAs for the permissible uses sought under the Planning Proposal and that any DA will need to have a NorBE on water quality. We support these statements. We provide a relevant SLWCA for 159 Rifle Range Road (see Attachment 2). The outcomes of that SLWCA are described above. SLWCAs are not relevant for Marulan Truckstop 31 for the reasons previously discussed. We ask that the information we have provided on the SLWCAs be included in this section.

#### Other

Council may wish to check the sewer and water map for the Marulan site to confirm that the annotations and attribution identified in the key accords with the symbology used on the map.

# ATTACHMENT 2 - Strategic Land and Water Capability Assessment



**Map 1.** 159 Rifle Range Road, Goulburn: Strategic Land and Water Capability Assessment (SLWCA) for 'Residential unsewered Lots 4,000 sqm to 2 ha.

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# Attachment 3b:Water NSW Post gateway Referral\_23 August 2021



PO Box 398, Parramatta NSW 2124 Level 14, 169 Macquarie Street Parramatta NSW 2150 www.waternsw.com.au ABN 21 147 934 787

23 August 2021

David Kiernan Senior Strategic Planner Goulburn Mulwaree Council Locked Bag 22 GOULBURN NSW 2580 
 Contact:
 Stuart Little

 Telephone:
 0436 948 347

 Our ref:
 D2021/92979

Dear Mr Kiernan,

# Planning Proposal for Additional Permitted Uses – Marulan Truckstop 31 and 159 Rifle Range Road, Goulburn (REZ/0002/2021)

I refer to the Post-Gateway Referral of the Planning Proposal for Additional Permitted uses at 14 & 16 George Street, Marulan (Marulan Truckstop 31) and 159 Rifle Range Road, Goulburn (REZ\_0002\_2021). WaterNSW provided initial comment on this Proposal in our letter of 10 June 2021 (our ref: D2021/66096). However, at that time we did not have the benefit of the Contamination (Site Investigation) reports relating to Truckstop 31. The current Proposal includes those reports, which we have now included in our assessment.

Our main concern relates to the Truckstop 31 site with respect to sewerage availability and potential contamination risks. Our concerns over the sewerage management issue have largely been addressed in our previous correspondence, which is addressed in the Proposal. However, we believe that more conservative Health Investigation Levels may be more relevant to future use of Lot 3 DP 1053945 for overnight accommodation, to help support the suitability of the site for the proposed development.

Our detailed comments are provided in Attachment 1. If you have any questions regarding the issues raised in this letter, please contact Stuart Little at <a href="mailto:stuart.little@waternsw.com.au">stuart.little@waternsw.com.au</a>.

Yours sincerely

**ALISON KNIHA** 

**Catchment Protection Planning Manager** 

#### **ATTACHMENT 1 – Detailed Comments**

#### Truckstop 31 - 14 & 16 George St Marulan

The Proposal seeks to seeks to expand the permissibility provisions for the Truckstop 31 (Lots 2 & 3 DP 1053945) site to include a fast food restaurant (food and drink premises) on Lot 2 (14 George Street) and motel accommodation and pub with ancillary bottle shop on Lot 3 (16 George Street). The proposed additional uses of motel, pub and food and drink premises will require significantly improved sewerage management arrangements as the site is currently unsewered and the Marulan sewage treatment plant (STP) is at capacity.

#### Sewerage Management

We understand that upgrading the Marulan STP is a priority for Council, with the upgrade expected to be online by the end of 2023. The Proposal notes Councils intention of conditioning any proposed consent to a development application (DA) preventing operation of operation/ occupation of the development until the upgrade of Marulan STP has been completed. WaterNSW does not object to the progression of the Planning Proposal so long as the sewerage management issue is addressed at DA stage and prior to any occupation of new development associated with the uses put forward by this Proposal. As raised in our previous submission, any condition will need to reasonably relate to the development and have sufficient finality and certainty. Any DA for the site is required to have a neutral or beneficial effect (NorBE) on water quality and be referred to WaterNSW for concurrence under State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011. The ability to meet the NorBE test is heavily dependent upon the ability to connect to the sewer and the capacity of the STP.

#### Contamination Risk

Since providing our initial comments in June, both a Preliminary Site Investigation (PSI) and a Detailed Site Investigation (DSI) report have been prepared for the Truckstop 31 site (Appendices 12 and 13). The PSI report examined the potential for contamination across Lots 1, 2 and 3 DP 1053945. It found numerous areas of potential contamination concern but that the contaminants were considered to be of low to moderate risk. The report identified that a DSI was required to confirm the presence and extent of contamination to determine the suitability of the site for the proposed development.<sup>1</sup>

The subsequent DSI was undertaken focusing on Lots 2 and 3 DP 1053945 (i.e. the subject area of the current Planning Proposal) and included both soil and groundwater sampling. The chemical analysis targeted Contaminants of Potential Concern, which may have impacted the site based on past and present activities.

The soil results for Lots 2 and 3 have been compared against the National Environment Protection Measures (NEPM) Health Investigation Level (HIL) limits using the HIL D limits which relate to commercial/industrial premises. While this may be appropriate for Lot 2 with respect to the fast food restaurant, Lot 3 involves the creation of a motel involving overnight accommodation. Based on information contained in the *National Environment Protection (Assessment of Site Contamination) Measure 1999*, we believe that the soil analysis results for Lot 3 need to be further examined against the limits set by the HIL A (residential with garden accessible soils) or HIL B (residential with minimal opportunities for soil access) criteria to help demonstrate the suitability of the site for the intended motel use.<sup>2</sup> A supplementary comparison of the Lot 3 soil test results against the HIL A or HIL B limits should be provided.

<sup>&</sup>lt;sup>1</sup> The PSI included land in Lots 1-3, DP 1053945 with Lot 1 occurring to the west of, but adjoining, Lot 2. The DSI was limited to Lots 2 and 3 DP 1053945. Lot 1 is not the subject of this Planning Proposal and is not discussed further.

<sup>&</sup>lt;sup>2</sup> Section 3.2.4 of Schedule B7 (Volume 19) of the National Environment Protection (Assessment of Site Contamination) Measure 1999 advises, with respect to HIL D values, 'the land use scenario does not include more sensitive uses that may be permitted under relevant commercial or industrial zonings. These more sensitive uses include childcare, educational facilities, caretaker residences and hotels and hostels, etc.

In terms of the soil sampling results, based on the HIL D limits used, TRH, BTEX, PAH OCP/OPP, Metals and Asbestos were found not to exceed the NEPM for all soil samples collected.<sup>3</sup> However, Sites 2 and 3 both had metals above the Level of Reporting (LOR) but below the NEPM HIL D limit, with Site 3 recording all metals above the LOR for all samples. However, these are well below the HIL D limits. Certain Total Recoverable Hydrocarbons were also above the LOR for Site 3 but were well below relevant NEPM HIL D limits. For a water quality impact perspective, the main concern is the mobility of potential contaminants when soils are disturbed such as during excavation. Managing this risk is a matter more relevant to the later development application (DA) stage.

Groundwater was sampled using groundwater monitoring wells, established in both Lots 2 and 3, and a further well on Lot 2 downgradient of the UPSS. The DSI report found only that Copper and Zinc were found in concentrations that slightly exceeded Groundwater Investigation Levels (GILs), however this was attributed to naturally occurring levels within the groundwater; such metals are not directly associated with the service station operations. Our understanding is that none of the proposed development for the site will include excavations beyond the water bearing zone.

The DSI report concludes that current and past service station operations have not impacted the groundwater in the sampling locations. It also concludes that the site is suitable for the proposed development provided that the recommendations of the DSI report are implemented. We believe that the stated recommendations of the DSI report should be implemented as stated in the Planning Proposal, but this can occur through the DA and consent process.

#### Other - Land Use Permissibility

We envisage that for the Truckstop 31 site, the proposed motel or pub might include a caretaker's residence. We note that under the *Goulburn Mulwaree Local Environmental Plan 2009*, residential accommodation is prohibited on land zoned IN1 General Industrial. Council may wish to consider how the proposed motel, bottle shop and pub is to be managed to ensure that any accommodation envisaged for the proprietors of those establishments is within the remit of the change in the land uses being sought.

#### 159 Rifle Range, Goulburn

Regarding the 159 Rifle Range Road site, we note that the Proposal has taken into account our earlier comments on this site, including providing the relevant Strategic Land and Water Capability Assessment (SLWCA). We support Council's approach of reconciling the planning provisions applying to 159 Rifle Range Road and have no objections to this aspect of the Proposal.

#### **Direction 5.2 Sydney Drinking Water Catchment**

The Planning Proposal provides a comprehensive response to the section 9.1 Direction 5.2 Sydney Drinking Water Catchment and incorporates consideration of our advice of 10 June 2021. The response discusses the sewerage constraints of the Marulan site, making any development contingent upon and subject to the completion of the STP upgrade. As reflected in the information, SLWCAs are not relevant for Marulan Truckstop 31 as WaterNSW does not hold appropriate SLWCAs for 'restaurants' or 'food and drink premises' or for hotels/motels or tourist and visitor accommodation.

The response also recognises that the 159 Rifle Range Road Goulburn site is unsewered but that there is sufficient area to accommodate a new dwelling while keeping the associated effluent management area (EMA) 100 m distant from waterways and drainage paths. The response also includes a copy of the relevant SLWCA for the site and incorporates our earlier advice that that land has sufficient land of LOW or MODERATE risk to accommodate a dwelling and meet appropriate EMA buffer distances from waterways.

3

Information on uses permitted under local council zoning schemes for commercial/industrial land use can be obtained from local council planning zones/schemes. Should these more sensitive uses be permitted, then HIL A or HIL B values should be considered'. See:

 $https://www.legislation.gov.au/Details/F2013C00288/Html/Volume\_19\#\_Toc351713629.$ 

<sup>&</sup>lt;sup>3</sup> TRH: Total Recoverable Hydrocarbons (TRH); BTEX: Benzene, Toluene, Ethylbenzene and Xylene; PAH: Polycyclic Aromatic Hydrocarbon; OCP: Organochlorine Pesticides; OPP: Organophosphate Pesticides.

The Proposal also generally notes that DAs for the permissible uses sought through the Planning Proposal will need to have a NorBE on water quality. We support this statement.

# State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011

The Proposal includes a response to the Sydney Drinking Water Catchment 2011 SEPP. The response identifies the current sewerage constraints of the Marulan Truckstop site and reference comments made in our previous response including the importance of sewer connectivity and STP upgrade to achieve a NorBE for later developments. The Proposal also incorporates consideration of our earlier comments made on the Rifle Range Road, Goulburn site.

We are supportive of the information provided in the Proposal.

The responses to both Direction 5.2 and the SEPP will need to be further updated based on our submission herewith.

Item 15.3- Attachment 3 Page 219

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#### Attachment 3c: Water NSW Exhibition Response\_29 September 2021



PO Box 398, Parramatta NSW 2124 Level 14, 169 Macquarie Street Parramatta NSW 2150 www.waternsw.com.au ABN 21 147 934 787

29 September 2021

Mr Warwick Bennett General Manager Goulburn Mulwaree Council Locked Bag 22 GOULBURN NSW 2580 Contact: Stuart Little

Telephone: 0436 948 347

Our ref: D2021/107109

Dear Mr Bennett,

# Additional Uses Planning Proposal – REZ/0002/2021 – Marulan Truckstop 31 and 159 Rifle Range Road, Goulburn: PP-2021-4197

I refer to the Exhibition of the Planning Proposal for Additional Permitted uses at 14 & 16 George Street, Marulan (Marulan Truckstop 31) and 159 Rifle Range Road, Goulburn (PP-2021-4197). The Proposal seeks to amend Schedule 1 – Additional Permitted Uses of the Goulburn-Mulwaree Local Environmental Plan 2009 (GM LEP) to permit with development consent, a 'food and drink premises' at 14 George St, Marulan (Lot 2 DP 1053945), a 'motel or hotel accommodation, pub and bottleshop' at 16 George St, Marulan (Lot 3 DP 1053945), and a dwelling house at 159 Rifle Range Road, Goulburn (part Lot 1 DP 706477).

WaterNSW has provided previous comments to Council regarding the Proposal on 10 June 2021 (our ref: D2021/66096) and 23 August 2021 (our ref: D2021/92979). Our main concern has been in relation to the Marulan Truckstop 31 site with regard to the separate issues of sewerage management and land contamination risk.

#### Marulan Truckstop 31

With regard to the Marulan Truckstop 31 Site, the Proposal takes into account and responds to our previous concerns regarding sewerage management and the importance of sewer connectivity and the Marulan sewage treatment plant (STP) for later developments to be able to deliver a neutral or beneficial effect (NorBE) on water quality as required under *State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011* (SDWC SEPP). We stand by those previous comments but believe that these issues can be dealt with in the development application (DA) phase and in the timing of development construction and occupation. These issues need not inhibit the Planning Proposal from proceeding.

Our most recent August correspondence took account of the Contamination Assessment Reports but noted that the Health Investigation Levels (HILs) needed to be more conservative for Lot 3 DP 1053945 (the motel site) having regard to the future use of the site for overnight accommodation. The Proposal notes that an update is currently being prepared for the Detailed Site Investigation (DSI) report comparing the soil test result for Lot 3 against the HIL B limits (which relate to residential uses with minimal opportunities for soil access). This comparison will further help inform the suitability of the site for the intended motel use. The Planning Proposal notes the intention for the update to be provided through a post-exhibition report to Council after the current public exhibition of the Proposal has been completed. Once the updated DSI report is available, and before the Proposal is finalised, WaterNSW would like an opportunity to examine the updated DSI report regarding the comparison of the soil test results against the HIL B limits. As reflected in our previous correspondence, we believe that the stated recommendations of the DSI report should be implemented but this can occur through the DA and consent process.

#### 159 Rifle Range Road Goulburn

We note and support Council's proposal to reconcile the planning provisions applying to 159 Rifle Range Road, Goulburn. The site is bisected by the Hume Highway and cannot currently be subdivided due to zoning and minimum lot size (MLS) restrictions. It is proposed to amend the provisions that apply to the northern parcel (E2 Environmental Conservation) to allow a dwelling house and reduce the applicable MLS provisions to enable that portion to subdivided from the southern parcel (zoned RU6 Transition). Council's preferred approach to the matter is to effect the change through the inclusion of a clause within Schedule 1 – Additional Permitted Uses of the GM LEP rather than changing the zoning to a more relaxed E3 Environmental Management or E4 Environmental Living. We support this approach as it will limit the range of land uses available for development at the site. We also note that the proposed provisions for Schedule 1 include an updated MLS from 70 ha to 74 ha. WaterNSW has no objection to this change.

#### State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 (SDWC SEPP)

The Proposal (pp. 19-21) provides a thorough response to the SDWC SEPP, taking into account our previous concerns and issues raised in both the pre- and post-Gateway consultation. We support the information provided and have nothing further to add. We also note that section 3.6.6 Direction 2.6 – Remediation of Contaminated Land takes into account comments made by us in our August correspondence.

#### **Direction 5.2 Sydney Drinking Water Catchment**

The Proposal provides a strong consideration of Direction 5.2 Sydney Drinking Water Catchment (pp. 39-41), reflecting comments made in our June advice. However, the response to Direction 5.2 should be updated to reflect comments made in our August correspondence, particularly with respect to the contamination risk issue for the Marulan Truckstop 31 site. Cross-reference could also be made to Section 3.6.6 as that section addresses the contamination risk and takes into account our August advice on that matter. The response to Direction 5.2 includes our previously provided Strategic Land and Water Capability Assessment (SLWCA) and associated advice for the 159 Rifle Range Road Goulburn site. As indicated in the Planning Proposal, we do not hold appropriate SLWCAs for uses such as food and drink premises or tourist and visitor accommodation which would be relevant to the Marulan component of the Proposal. Apart from the need to update the section to reflect our August advice as described above, we support the information with respect to Direction 5.2.

If you have any questions regarding the issues raised in this letter, please contact Stuart Little at stuart.little@waternsw.com.au.

Yours sincerely

**ALISON KNIHA** 

**Catchment Protection Planning Manager** 

2

#### Attachment 3d: Water NSW Additional Referral Response\_21 October 2021



PO Box 398, Parramatta NSW 2124 Level 14, 169 Macquarie Street Parramatta NSW 2150 www.waternsw.com.au ABN 21 147 934 787

20 October 2021

David Kiernan Senior Strategic Planner Goulburn Mulwaree Council Locked Bag 22 GOULBURN NSW 2580 
 Contact:
 Stuart Little

 Telephone:
 0436 948 347

 Our ref:
 D2021/113008

Dear Mr Kiernan,

# Marulan Truck Planning Proposal Progress & Detailed Site Investigation (DSI) Request-REZ/0002/2021

I refer to your email of 12 October 2021 providing an updated Detailed Site Investigation (DSI) report and accompanying Redial Action Plan in relation to potential contamination at the Marulan Truckstop site in relation to planning proposal REZ/0002/2021 (PP\_2021\_4107).

The updated information has been provided in response to our request of 23 August 2021 (our ref: D2021/92979) where we indicated that more conservative Health Investigation Levels (HILs) would be appropriate for Lot 3 DP 1053945 given its intended use as a motel providing overnight accommodation. In a follow-up email to Council on 23 August 2021, we indicated that the HIL-B limit (which relate to residential uses with minimal opportunities for soil access) could be used The Planning Proposal was exhibited while the updated DSI report was still being prepared. Our correspondence of 29 September 2021 on the exhibited Planning Proposal sought for the updated DSI report to be made available to us before the Proposal was finalised (our ref: D2021/107109).

The updated DIS report includes soil test results for Lot 3 based on HIL-A limits and the HSL-A Health Screening Levels (HSLs) for petroleum compounds, which are more conservative than the HIL-B limit initially sought by us and take a precautionary approach to the contamination risk. The updated report reveals that several forms of hydrocarbons exceed the HLS-A limits and/ or the Ecological Screening Level (ESL) for Urban, Residential and Public Open Space area leading the preparation of a Remedial Action Plan for Lot 3.

The preparation of the updated DSI Report and Remedial Action Plan has sufficiently addressed our concerns for the Planning Proposal stage of this matter. We may need to make further comment or seek more detail about the remediation at DA stage. Under State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011, any future development of the site will need to have a neutral or beneficial effect on water quality, meet standards equal or better than those required by WaterNSW Current Recommended Practices, and will require the concurrence of WaterNSW. We also ask that Council keep us informed about any proposed demolition or remediation activity proposed for the site.

If you have any questions regarding the issues raised in this letter, please contact Stuart Little at <a href="mailto:stuart.little@waternsw.com.au">stuart.little@waternsw.com.au</a>.

Yours sincerely

ALISON KNIHA

**Catchment Protection Planning Manager** 



Attachment 3e: Transport for NSW Post gateway Referral\_ 2 August 2021

Our ref: STH21/00014/02 Contact: Andrew Lissenden 0418 962 703 Your ref: REZ/0002/2021

2 August 2021

David Kiernan Goulburn Mulwaree Council BY EMAIL: council@goulburn.nsw.gov.au

PLANNING PROPOSAL (REZ/0002/2021) - ADDITIONAL PERMITTED USES AT LOT 2 AND 3 DP 1053945 (NO.14-16) GEORGE STREET, MARULAN AND LOT 1 DP 706477 (NO.159) RIFFLE RANGE ROAD, GOULBURN - PUBLIC AUTHORITY CONSULTATION

Dear David

Transport for New South Wales (TfNSW) refers to the notification it received on 27 July 2021 and the subsequent phone discussion regarding the above planning proposal (PP).

TfNSW has reviewed the information provided while focusing on the impact to the state road network (i.e. the Hume Highway). TfNSW notes:

- the PP seeks to amend the provisions of the Goulburn Mulwaree Local Environmental Plan 2009 (GM LEP 2009) for two different sites (Refer to **Attachment 1**);
- each is seeking an additional permissible use beyond those already allowed under the GM LEP 2009.
  For Lot 2 DP 1053945 (No.14) George Street, Marulan the PP is seeking the additional permissibility of
  a fast-food restaurant (food and drink premises). For Lot 3 DP 1053945 (No.16) George Street, Marulan
  the PP is seeking the additional permissibility of motel accommodation and pub with an ancillary bottle
  shop. For Lot 1 DP 706477 (No.159) Rifle Range Road Goulburn the PP is seeking the additional
  permissibility of a dwelling within the E2 zoned portion of the site; and
- consultation is required in accordance with the Gateway Determination issued by the NSW Department
  of Planning, Industry and Environment.

Having regard to the above, TfNSW provides the comments in **Attachment 2** for Council's consideration and Information.

If you have any questions please contact me on 0418 962 703.

Yours faithfully

Andrew Lissenden

**Development Case Officer** 

Community and Place I South Region

Cc: david.kiernan@goulburn.nsw.gov.au

Transport for NSW

Level 4, 90 Crown St, Wollongong NSW 2500 | PO Box 477, Wollongong NSW 2520 | ABN 18 804 239 602

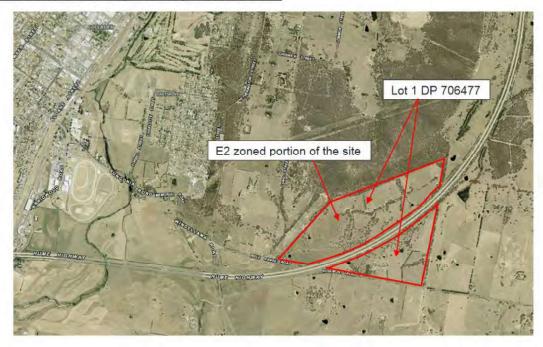
1 of 3

# Attachment 1

Lots 2 and 3, DP 1053945 (No.14-16) George Street, Marulan



Lot 1 DP 706477 (No.159) Rifle Range Road, Goulburn



# Transport for NSW

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#### Attachment 2

#### 1. Comments for consideration at PP Stage

#### a) Lots 2 and 3 DP 1053945 (No.14-16) George Street, Marulan

TfNSW does no object to the PP as it applies to Lot 2 and 3 DP 1053945 in principle, subject to the requirements in Point 2a) below being able to be adequately addressed as part of any future development application(s).

#### b) Lot 1 DP 706477 (No.159) Rifle Range Road Goulburn

TfNSW does no object to the PP as it applies to the northern portion of Lot 1 DP 7606477 in principle, subject to the requirements in Point 2b) below being able to be adequately addressed as part of any future development application or complying development application lodged.

#### 2. Advisory comments for consideration at subsequent development stages

# a) Lots 2 and 3 DP 1053945 (No.14-16) George Street, Marulan

Noting the development types proposed, TfNSW has concerns with the access across the Hume Highway median that is currently available. Any additional development on these sites will require a Traffic Impact Study (TIS) to be prepared that in part assesses the suitability of this access point to be retained as well as the applicable requirements in Table 2.1 of the RTA's Guide to Traffic Generating Developments and Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development and Part 3: Traffic Studies and Analysis.

# b) Lot 1 DP 706477 (No.159) Rifle Range Road Goulburn

- i) No access to and from the Hume Highway will be allowed. All access will need to be gained via the local road network (i.e. access to Lot 1 DP 706477 will need to be via Rifle Range Road for the section north of the Hume Highway or Rosemont Road for the section south of the Hume Highway). In this regard a 'Restriction as to User' via an 88B Instrument shall be included on the title of Lot 1 DP 760477 to restrict access to/from the Hume Highway.
- ii) Clause 102 of the State Environmental Planning Policy (Infrastructure) 2007 (SEPP 2007) would apply to the future residential development of the PP site (i.e. construction of a single dwelling house) as it is adjacent to a road corridor with an annual average daily traffic volume of more than 20,000 vehicles. Council will need to satisfy itself as part of any future DA lodged or complying development application for a dwelling that the requirements of Section 102 of SEPP 2007 can be satisfied.

Transport for NSW

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3 of 3



Attachment 3f: Transport for NSW Post gateway Referral\_3 September 2021

Our ref: STH21/00014/03 Contact: Andrew Lissenden 0418 962 703 Your ref: REZ/0002/2021

3 September 2021

Megan Trotter
Goulburn Mulwaree Council
BY EMAIL: council@goulburn.nsw.gov.au

PLANNING PROPOSAL (REZ/0002/2021) – ADDITIONAL PERMITTED USES AT LOT 2 AND 3 DP 1053945 (NO.14-16) GEORGE STREET, MARULAN AND LOT 1 DP 706477 (NO.159) RIFFLE RANGE ROAD, GOULBURN – PUBLIC EXHIBITION

Dear Megan,

Transport for New South Wales (TfNSW) refers to your email dated 31 August 2021 regarding the public exhibition of the above planning proposal (PP).

TfNSW has reviewed the information provided while focusing on the impact to the state road network (i.e. the Hume Highway). TfNSW notes:

- it has previously provided comments on the PP (i.e. post gateway refer to the TfNSW letter dated 2
   August 2021 Appendix 1);
- the PP, in terms of the amendments to the provisions of the Goulburn Mulwaree Local Environmental Plan 2009 (GM LEP 2009) for the two different sites (i.e. the allowance of additional permissible use beyond those already allowed under the GM LEP 2009), has not significantly changed from when TfNSW provided its previous advice; and
- To address the comments that TfNSW previously made concerning 159 Rifle Range Road, Council has included in draft Schedule 1: Additional Permitted Uses, Clause 7 of the GM LEP 2009, two additional subclauses relating to access and noise.

On the basis that the above is correct, TfNSW does not object to the PP as it applies to both sites subject to the requirements in Point 2a) and Point 2b) in Attachment 2 of the TfNSW letter dated 2 August 2021 being adequately addressed as part of any future development applications lodged.

If you have any questions please contact me on 0418 962 703.

Yours faithfully

Andrew Lissenden

Development Case Officer

Community and Place I South Region

Cc: Megan.Trotter@goulburn.nsw.gov.au

Transport for NSW

Level 4, 90 Crown St, Wollongong NSW 2500 | PO Box 477, Wollongong NSW 2520 | ABN 18 804 239 602

1 of 2

Appendix 1

Please see the document titled Appendix 1 - TfNSW response 2.08.21.

Transport for NSW

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2 of 2



Attachment 3g: DPIE Biodiversity & Conservation Division Post gateway Referral\_5 August 2021

The General Manager Goulburn Mulwaree Council Locked Bag 22 Goulburn NSW 2580 Our ref: DOC21/663378-1 Your ref: REZ/0002/2021

Council@goulburn.nsw.gov.au

Attention: David Kiernan

5 August 2021

Dear Mr Kiernan

Subject: Planning Proposal - Ref-690 - PP-2021-4107— Additional Permitted Uses at 14 & 16 George Street, Marulan and 159 Rifle Range Road, Goulburn

I refer to your request for Biodiversity and Conservation Division's (BCD) review of the above planning proposal which seeks additional permitted uses (restaurant, motel and bottle shop) at George Street, Marulan, and at 159 Rifle Range Road, Goulburn that seeks a split subdivision and the use of a local clause to permit a dwelling.

BCD have considered the planning proposal against the ministerial planning directions set out below:

- 2.1 Environment Protection Zones
- 4.3 Flood prone land
- 5.10 Implementation of Regional Plans

We are satisfied that the planning proposal has adequately addressed the ministerial planning directions, and as such we do not object to the planning proposal.

However, we recommend that the Minimum Lot Size (MLS) for 159 Rifle Range Road, Goulburn, reflect the size of the lot, which means that rather than being 70ha, it should be 76ha. This would reduce the likelihood of the block being further subdivided in the future, and minimise the potential for development to impact the critically endangered ecological community of *White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland* (Box-gum woodland) located on the site.

In order to avoid future development applications exceeding the threshold for entry into the Biodiversity Offsets Scheme (BOS), we recommend the proposed building envelope including Asset Protection Zone (APZ) be located within the cleared areas (exotic pastures) that are identified in Appendix 24.

If you wish to discuss this matter further, please contact Lyndal Walters, Senior Regional Biodiversity Conservation Officer, on 6229 7157.

Yours sincerely,

Allson TREWEEK

Senior Team leader Planning South East Biodiversity and Conservation

cc George Curtis - DPIE - Planning and Assessment

11 Farrer Place Queanbeyan NSW 2620 | PO Box 733 Queanbeyan NSW 2620 | dpie.nsw.gov.au | 1



Attachment 3h: DPIE Biodiversity & Conservation Division Exhibition Referral 21 September 2021

Our ref: DOC21/782191-2

Your ref: REZ/0002/2021

The General Manager Goulburn Mulwaree Council Locked Bag 22 Goulburn NSW 2580

Council@goulburn.nsw.gov.au

Attention: David Kiernan 21 September 2021

Dear Mr Kiernan

Subject: Updated Planning Proposal - PP-2021-4107- Additional Permitted Uses at 14 & 16 George Street, Marulan and 159 Rifle Range Road, Goulburn

I refer to your request for Biodiversity and Conservation Division's (BCD) review of the above updated planning proposal which seeks additional permitted uses (restaurant, motel and bottle shop) at George Street, Marulan, and at 159 Rifle Range Road, Goulburn that seeks a split subdivision and the use of a local clause to permit a dwelling.

BCD have considered the updated planning proposal against the ministerial planning directions and we are satisfied that it has adequately addressed them. As such we do not object to the planning proposal:

In addition, we are pleased that our recommendation to have the Minimum Lot Size (MLS) for 159 Rifle Range Road, Goulburn, reflect the size of the lot, which has been recently re-calculated to be approximately 74.5ha by Council, and that the MLS will now be 74ha. This will reduce the likelihood of the block being further subdivided in the future, and minimise the potential for development to impact the critically endangered ecological community of White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland (Box-gum woodland) located on the site.

As advised in our previous letter, in order to avoid future development applications exceeding the threshold for entry into the Biodiversity Offsets Scheme (BOS), we recommend the proposed building envelope including Asset Protection Zone (APZ), be located within the cleared areas (exotic pastures) that are identified in Appendix 24.

If you wish to discuss this matter further, please contact Lyndal Walters, Senior Regional Biodiversity Conservation Officer, on 6229 7157.

Yours sincerely, Alban rewall.

ALLISON TREWEEK
Senior Team Leader Planning South East
Biodiversity and Conservation

cc George Curtis - DPIE - Planning and Assessment

11 Farrer Place Queanbeyan NSW 2620 | PO Box 733 Queanbeyan NSW 2620 | dpie.nsw.gov.au | 1





# Attachment 3i: NSW Rural Fire Service Post gateway referral 3 August 2021

# **NSW RURAL FIRE SERVICE**

Goulburn Mulwaree Council Locked Bag 22 **GOULBURN NSW 2580** 

Your reference: (REF-688) REZ/0002/2021 Our reference: SPI20210725000111

ATTENTION: David Kiernan Date: Tuesday 3 August 2021

Dear Sir/Madam,

#### Strategic Planning Instrument Rezoning - Planning Proposal

The planning proposal involves 2 distinct sites. The Marulan Truckstop is seeking the permissibility of a fast food restaurant on lot 2 at 14 George Street and motel and pub with ancillary bottle shop on lot 3 at 16 George Street. 159 Rifle Range Rd is seeking the permissibility of a dwelling with a restriction of minimum allotment size.

I refer to your correspondence dated 23/07/2021 inviting the NSW Rural Fire Service (NSW RFS) to comment on the above Strategic Planning document.

The NSW RFS has considered the information submitted and provides the following comments.

The NSW RFS has reviewed the proposal with regard to Section 4.4 of the directions issued in accordance with Section 9.1 of the Environmental Planning and Assessment Act 1979.

The objectives of the direction are:

(a) to protect life, property and the environment from bush fire hazards, by discouraging the establishment of incompatible land uses in bush fire prone areas, and

(b) to encourage sound management of bush fire prone areas.

The direction provides that a planning proposal must:

- (a) have regard to Planning for Bushfire Protection 2019,
- (b) introduce controls that avoid placing inappropriate developments in hazardous areas, and
- (c) ensure that bushfire hazard reduction is not prohibited within the APZ.

Based upon an assessment of the information provided, NSW RFS raises no objections to the proposal.

For any queries regarding this correspondence, please contact Bradley Bourke on 1300 NSW RFS.

Yours sincerely,

Postal address

NSW Rural Fire Service Locked Bag 17 GRANVILLE NSW 2142 Street address

NSW Rural Fire Service 4 Murray Rose Ave SYDNEY OLYMPIC PARK NSW 2127 T (02) 8741 5555 F (02) 8741 5550

www.rfs.nsw.gov.au



Anna Jones Supervisor Development Assessment & Plan Built & Natural Environment



Attachment 3j: NSW Rural Fire Service Exhibition Response\_8 September 2021





Goulburn Mulwaree Council Locked Bag 22 GOULBURN NSW 2580

Your reference: REZ/0002/2021 / PP-2021-4107

Our reference: SPI20210901000143

ATTENTION: Megan Trotter Date: Wednesday 8 September 2021

Dear Sir/Madam,

# Strategic Planning Instrument Draft LEP

Goulburn Mulwaree Council gives notice of the public exhibition of a Planning Proposal under Schedule 1 Clause 4 of the Environmental Planning and Assessment Act 1979. The intended outcome of this Planning Proposal is to amend the Goulburn Mulwaree Local Environmental Plan 2009, Schedule 1: Additional Permitted Uses by including the following as additional permissible uses:

- · food and drink premises on Lot 2, DP 1053945 at 14 George Street, Marulan
- · motel or hotel accommodation, pub and bottle shop on Lot 3, DP 1053945 at 16 George Street, Marulan.
- Dwelling house on part of Lot 1, DP 706477 at 159 Rifle Range Road, Goulburn

I refer to your correspondence dated 31/08/2021 inviting the NSW Rural Fire Service (NSW RFS) to comment on the above Strategic Planning document.

The NSW RFS has considered the information submitted and subsequently raise no concerns or issues in relation to bush fire.

For any queries regarding this correspondence, please contact Bradley Bourke on 1300 NSW RFS.

Yours sincerely,

Martha Dotter
Supervisor Development Assessment & Plan
Built & Natural Environment

Postal address

NSW Rural Fire Service Locked Bag 17 GRANVILLE NSW 2142 Street address

NSW Rural Fire Service 4 Murray Rose Ave SYDNEY OLYMPIC PARK NSW 2127 T (02) 8741 5555 F (02) 8741 5550 www.rfs.nsw.gov.au



Attachment 4a: Public Exhibition Submission\_Donna Ryall\_10 September 2021

To the General Manager

Good afternoon,

I am writing in regard to the **Planning Proposal – Additional Permitted Uses at 14 & 16 George Street, MARULAN, 2579,** more specifically the proposal for a motel or hotel accommodation, pub and bottle shop at Lot 3 DP 1053945 at 16 George Street, Marulan.

I reside directly opposite this address at 15 George Street, Marulan. Whilst I am keen to see the area tidied up and am not against development, my concerns are:

- Where the driveway or entrance to the proposed motel/hotel, pub and bottle shop would be located. If located directly opposite my own driveway I strongly object on the grounds that it would cause an increase in traffic, both noise and headlights shining directly into the front room of my premises from vehicles exiting the location.
- I have concerns where the parking for the proposed motel or licenced premises would be.
   The area is already quite busy with vehicles being parked in the street both on my footpath and across the road in front of 16 George St when people are attending the Marulan Medical Centre.
- 3. I am concerned as to the extra amount of rubbish that would be generated. Already the truck stop at 14 George St generates a lot of rubbish that blows across into my yard. I am constantly having to pick up rubbish and use my own bins for it. This also relates to the proposal for a fast food restaurant in front of the current truck stop at 14 George Street, Marulan. I would propose that high fences be erected around any fast food premises in order to stop the rubbish from blowing across into my yard.
- If this proposal is to go ahead, I seek your approval to increase the allowed front fence height of my property from the current 1.2m to much higher than that so that I may have some privacy.

I would also like to know what the proposed hours of operation would be for any licenced premises at 16 George Street, Marulan and depending on this, I may make further submissions. I bought the land and built the house on it as a residential property, not an industrial property and believe this area, and my specifically my property, is zoned residential. Please correct me if this is not the case.

I look forward to your response.



Attachment 4b\_Public Exhibition
Submission\_Lee Environmental Planning
on behalf of Ken McCourt\_2 October 2021

1

P 0408 473 857
E lep.planning@gmail.com
W www.lepplanning.com.au
A 33 Holly Street, Bowral NSW 2576

Ken McCourt

Dear Ken,

# RE: Planning Proposal for additional permitted uses at 14 & 16 George Street, Marulan

As requested, I am writing to you in regards to the above Planning Proposal that has only recently been drawn to your attention by Goulburn Mulwaree Council. Your interest arises as a landowner of commercial property on George Street within the town centre of Marulan.

You forwarded a copy of a Council report that I understand will be presented shortly to a meeting of Goulburn Mulwaree Council. It follows from an earlier planning report of April 2021.

Whilst this report deals with both the George Street site and Rifle Range Road site, your concerns relate directly to George Street and my comments are confined to that aspect of the Planning Proposal. (Council's Reference PP-2021-4197).

I believe the following comments should be presented to the Council's Strategic Planning department as soon as possible to ensure your concerns are properly considered, either before the matter is reported to Council or at the very least at that meeting so Councilors are aware of your concerns and the potentially divisive nature of the report recommendation.

#### Consultation

You have advised that the existence of the Planning Proposal has come as a surprise not only to yourself, but also to many other of the landowners within the Marulan town centre.

I am unaware of what processes Council has undertaken to make people aware of the Planning Proposal to ensure comprehensive and meaningful involvement with the community. Clearly if a large proportion of an affected community is unaware of imminent changes to planning controls, then whatever public engagement process was undertaken has been unsuccessful. Council may not therefore have satisfied its obligations to its community. Such a failure could call into doubt the procedural fairness of the process.

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## Intention of the Planning Proposal

The stated intended outcome of the Planning Proposal for the property at 14-16 George Street Marulan is to allow certain land uses that are not currently permissible, namely a motel, pub and bottle shop.

It is intended to do so through providing an 'exception' for the site through listing in Schedule 1 of the GMLEP2009. This in effect keeps the underlying zoning of the land (IN1 General Industrial) but allows other uses which presumably, have been handpicked by the proponent.

The report confirms that this aspect of the Planning Proposal has not emanated from any strategic study or direction. In that sense it is not unfair to call it simply an opportunistic spot rezoning aimed at adding market value to the land that the proponent believes will be profitable.

A land owner cannot be criticized for seeking profitable land uses, however that desire does not necessarily translate into a solid reason for a Planning Proposal.

Marulan is a recognised and important service centre along the Hume Highway corridor, but it is also a local centre servicing a local population. The current land use zoning of the GMLEP2009 reflects this. This makes this 'spot rezoning' approach to the site somewhat confusing.

#### Strategic merit

It is necessary for all Planning Proposals to demonstrate strategic planning merit. At this stage it is not apparent to me as to what the strategic merit is for this Proposal.

As noted above, the Council report recognizes that the Planning Proposal is not linked to any strategic study or report.

At this point in time, the best guide to long term strategic outcomes for Marulan are viewed through the existing land use zoning and the range of land uses that those zones allow. For the subject land, the prevailing zone is IN1 General Industrial. This zone allows for a wide range of land uses that can be long term contributors to the broader Marulan economy and community. The report makes no compelling case as to why the current zoning is deficient. The argument that other non industrial type uses are more profitable is not a planning reason of any substance.

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Conversely, there is a defined Marulan town centre that is within the B2 Local Centre zone. This area contains the building blocks for a vibrant and successful town. This is through both the existing businesses that can consolidate and/or expand and sufficient zoned land to allow for new opportunities. I am unaware that there is a case that insufficient commercial land is available, or that the current B2 zoned land is ill equipped to cater for the needs of the locality.

There can be no argument that uses such as motel, pub and bottle shop should be seen as key town centre uses. I am unsure why Council would support dislocating the town centre by encouraging such key uses to leak outside of the town centre. This would be a failure of strategic planning,

The lack of strategic merit is concerning and coupled with the apparent lack of community involvement in this Planning Proposal, it would not be unreasonable to request Council to pause on this specific Planning Proposal in favour of a more comprehensive and collaborative strategic planning exercise for Marulan.

#### **Economic Impact**

The Council report states that the Planning Proposal was supported by an Economic Impact Statement. I have not viewed that report, but Council's report includes information on some of its conclusions.

It is not surprising that the proposed development that would result from the Planning Proposal would generate positive economic numbers. However, the more critical question is why Council would believe such potential benefits should be stripped out of the identified Marulan town centre to a site outside of the town centre. That would appear to be an outcome at complete odds with the preferred long term strategic planning for the Marulan town and a question not answered within the Council report.

# Site Specific merit

It is also necessary for a Planning Proposal to exhibit site specific merit. No doubt that through a Development Application process, it could be demonstrated that the site has the physical capacity to accommodate the proposed uses.

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However, it is questionable as to the site suitability when the potential negative impacts on the town centre are considered. The economic viability of a project is a different question to the economic impact of development. As already noted, it is unclear as to why Council would redirect development that acts as a town centre stimulus, away from the actual town centre.

Similarly, the social impact assessment as presented in the Council report is unconvincing. The greatest positive social impact must accrue through a strong cohesive town centre, which is being undermined by this Planning Proposal.

#### **Summary**

Please note that these comments are on the basis of the limited information available and the time frame in which to make a submission to Council.

My initial conclusion is that the Planning Proposal lacks strategic merit and on that basis alone it should not proceed and certainly not without first being the subject of meaningful public scrutiny and comment. Clearly that is a decision for the Council to make.

Yours Faithfully,

Scott Lee

2 October 2021

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Attachment 4c: Public Exhibition Submission\_Jos Roberts\_5 October 2021

#### Development at 14-16 George Street Marulan

I wite as a member of the Marulan community who has focussed much effort to develop the town as a coherent community. Personal wishes and benefits should not influence the overall considerations. Marulan has great potential, but I believe that a bigger picture should be maintained.

What is good for the town is key and the regulations should ensure that result; the regulations are not an end in themselves. Having two town centers in the town creates division. This proposal will commence the hollowing out of the town retail centre doubtless to be followed by other local spot rezonings unless these are done on a first in best dressed basis. It will benefit some but detract from the town's master plan. We all need to think in the 25-year term not just a quick returns.

Due to the hollowing out the retail centre it will become less commercially attractive to develop that centre. Why remodel the Terminus pub when there is another new competitor down the road taking trade away? I am hoping for more and varied retail businesses to open in the centre – its beginning to develop having been asleep for years. A new Garden Centre and a new Café are proposed in the Marulan Village Center – a new hire shop has opened adjacent. The pub has changed hands and has a huge block of land behind enabling it to develop and become a social magnet. The town is just beginning to falteringly develop and has new blood and owners are seeing the potential. The existing center still needs investment and this proposal will be create a disincentive.

The residential areas around the town are growing – they need to be serviced and not solely rely on Goulburn and Mittagong. We know the traffic on the Hume is going to become much heavier as more and more quarry trucks will roll by, so local shopping and employment in a vibrant centre is to be encouraged.

The pub type establishment close by this site, part of the existing motel, has been empty for a long time – the Duck Inn opened there for a brief period but did not survive. Marulan Rural Supplies seems to be doing well. KFC is already there. The BP station now serves fast food. Will another fast food outlet stifle the current offerings? The local area planning/architecture has had no apparent master plan, there are roads everywhere; its all been designed on a component basis, not as a whole. It's a mess. I believe this proposal has long term negative effects for the town as a whole and does not contribute to cleaning up the current incoherent planning in that area. The long term costs may be felt for years.

I ask the Council to consider what is best for the town in the longer term. I do support appropriate development contributing to this area but I believe this proposal seeks to alter the regulations to suit this component of the town, not the whole.

# Attachment 4d:Public Exhibition Submission\_G.Spicer & S.Atkinson\_5 October 2021

## Attention Ryan Gill

I have been advised of your name and email address to email you in relation to the amended proposal for 14-16 George street.

- · food and drink premises on Lot 2, DP 1053945 at 14 George Street, Marulan
- motel or hotel accommodation, pub and bottle shop on Lot 3, DP 1053945 at 16 George Street, Marulan

I don't agree with the works that are being suggested for 16 George street. I dont believe this is something that will benefit our area as there is already a number of locations in marulan that alcohol can be purchased. Marulan already has a pub located on the main street and a tavern not even 200m from the proposed location. Our town is not big enough to warrant 2 pubs and a tavern. As for the accomodation there is also a number of locations in George street marulan. the marulan motor inn 200 meters down the road. And we also have the terminus pub and marulan stayz that are on George street as well and im pretty sure that they always have vacancies.

As I live at 17 George street marulan I also have 3 young children and am concerned of the possibility of increased traffic on the road and an increase in noise, we already have issues with trucks using their Jake breaks at all hours of the day and night. We are a trucking family so we are all for trucks in the area however My bedroom is at the front of the house. How will the increase in noise and traffic affect us?

How will this affect the residential property prices around and near this site?

In regards to the fast food. Marulan already has a number of fast food drive through options in and around town. With KFC, 2x hungry Jack's, 2x subways, an Indian restaurant as well as the numerous cafes throughout town. We also have McDonald's only a short drive out of town in either north or south directions.

I honestly do not believe that marulans town or population warrents any of these proposed ideas and the location is Inappropriate

Regards

Gary Spicer and Samantha Atkinson

# Attachment 4e: Public Exhibition Submission\_Julie Graham\_5 October 2021

Julie Graham 26 Station Street Marulan NSW 2579

05 October 2021

The General Manager Goulburn Mulwarree Council Bourke Street Goulburn NSW 2580

Dear Sir/Madam

#### Re: Additional Uses Planning Proposal - REZ/0002/202

I am writing in response to the Proposed Development at 14-16 George Street Marulan with submissions closing this afternoon.

I have reviewed the proposed submission and although not against progress I request you consider my points below.

I have serious concerns regarding the height and roof to facilities proposed within the hotel. The proposed development is the adjacent property to our town's family doctors clinic and then our residential area. The report acknowledges noise and traffic considerations however noise carries a considerable distance at night and while one can adjust to the slow drone of traffic. Noise produced from alcohol is loud often high pitched and sudden. Noise from patrons travelling from a venue which is well supported such as this will certainly have a long term impact on our community.

A roof top bar area is something I would expect to see in a more densely populated community and while I acknowledge this will be targeted at growth. I question if council would approve such an item with a development proposal if it was placed next door to their property. Why Marulan we are growing yes, and need services yes, but with consideration.

We already have alcohol available at two venues within our town- the Terminus and IGA and while this development appears to be targeting travellers it is a third venue for our village and while the opening hours are not yet proposed it is still a disproportionate amount of alcohol for a village location.

Heritage: How offensive it was for the applicant to select a 'horders' home to showcase our heritage area. Not only as this is an ongoing concern and has been referred to Goulburn Mulwarree Council with fire concerns and also the impact on the heritage church next door but because it is well known the Marulan Community has worked continuously to support our local businesses who have contributed so much to retaining our beautiful buildings. Please see the attach photos of our town centre where the new shopping centre is integrated and supported by locals.

Transport: Marulan has a train/bus service for those working north of Marulan mostly. Unfortunately Goulburn to Marulan services are limited and not well patronised. Private car from Marulan 30 minutes to Goulburn – 30-45 minutes Moss Vale and 45 Minutes Mittagong.

Waste waste waste.. Oh my goodness it's amazing how this impacts the entrance to Marulan. The Council street area from the BP to the roundabout and the fence area of the Meridian Park is continuously littered with takeaway rubbish. People literally drive away throwing their waste out the vehicle window. A drive though takeaway will not change people's behaviour and I can only see this issue becoming a major problem without it being seriously addressed by Council. Not only for the takeaway and Hotel Motel proposed development but the whole stretch as mentioned above. It is the older people in the community who collect the loose waste not young people or those to drive through...

Electricity Grid: This winter we noticed the substantial difference in our cooking. Is sustainable energy and solar option to be integrated within the development? I would have thought this was an extremely important conversation to have pre development and would assist with any submission.

Demographics: Well wasn't this enlightening! Marulan has had considerable growth within the last five years and development is active in all directions. I would like to point out the most recent census should have us above the 40% so proudly quoted, so we can be assisted to improve ourselves. Offensive completely!! Our population has changed considerably over the last five years and families and retirees are finding a beautiful village atmosphere which was supported through the difficult years by the previous volunteers and older residents yes the 40%. The Lions Club, Marulan Progress Association and Chamber of Commerce and Marulan Volunteers.

Thank you for reading.

Kind regards Julie Graham



