# Preliminary Acid Sulfate Soil Assessment 54 Pullen Street, Woolgoolga



21 June 2024

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| Ref         | Ver | Date    | Distribution |
|-------------|-----|---------|--------------|
| 2324-178-03 | Α   | 21/6/24 | Client       |
|             | В   |         |              |

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## **Appendices**

Appendix A Borehole Logs

Appendix B Laboratory Report

# 1 Introduction

Earth Water Consulting Pty Limited (EWC) was engaged by jeff.bulfin@preciseplanning.com.au (the "Client") to undertake a preliminary Acid Sulfate Soil Assessment (PASS) for 54 Pullen Street, Woolgoolga (the "Site") (Figure 1).

# 2 Proposed Development

Based on plans of the proposed subdivision layout by deGroot & Benson, it is understood that it is proposed to subdivide the subject property into 20 allotments with a bio-retention basin covering 150m<sup>2</sup> basal and 40m<sup>2</sup> bench area in the northeast corner. (Figure 1).



Figure 1.
Proposed
Development
Layout.

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# 3 Scope of Work

This report presents the results of PASS investigations, undertaken in reference to the Acid Sulfate Soil Manual (ASSMAC, 1998), and BSC LEP Part 7 Acid Sulfate Soils. The scope of work included:

- A desktop review of surface, geology, hydrogeology, geomorphic and ASS risk conditions;
- A site inspection and walkover to assess for indicative ASS biomes and features;
- Drilling of 3 boreholes to 1.2m depth;
- Collection of 12 soil samples at various soil profiles present and screening for ASS; and
- Preparation of this Preliminary ASS report which describes the results of our investigation.

# **4 Site Description**

The Site is located in a semi-rural location on the northern downhill side of Pullen Street. The upper southern boundary of the Site is located at approximately 20m AHD on the hill crest, and lower northern boundary is located between 9.5m AHD and 4.5m AHD (northwestern corner) (Figure 2).

The Site slopes down radially northwards from a central mid slope hill ridge to the north of Pullen Street flanked by gullies draining towards Woolgoolga Creek to the north and alluvial terraces to the northeast (Photographs 1 and 2).



Figure 2. Location of the Site.

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Photograph 1. Looking southwest from the northeast boundary corner towards the hill crest of the southern boundary.



Photograph 2. Looking west along the northern boundary from the northeast boundary at 9.5m AHD.

# 5 Geology and Hydrogeology

## 5.1 Geology

In review of the Lotsearch report (LS056002 EP), which indicates the majority of the Site is underlain by Coramba beds (Ccoc) Tournaisian (base) to Carboniferous (Pennsylvanian-top) aged sandstone-high-stand facies, comprised of Lithofeldspathic wacke, minor siltstone, siliceous siltstone, mudstone, metabasalt, chert and jasper, rare calcareous siltstone and felsic volcanics (Figure 3). Minor low-lying areas along the western boundary and northwestern corner are associated with alluvial floodplain deposits and terrace deposits zones with silt predominating composition.

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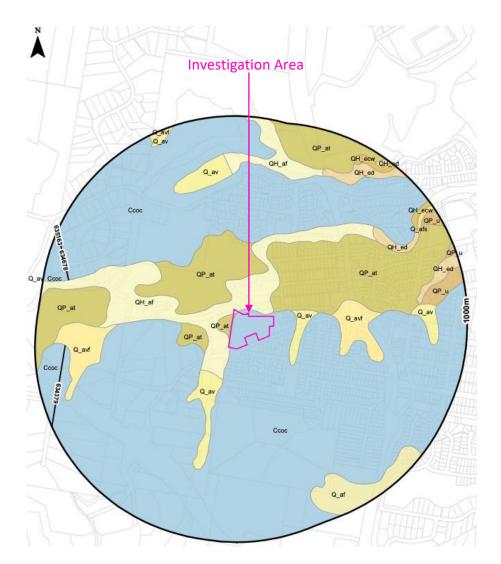


Figure 3. Mapped geological formation and subject property location.

#### 5.2 Soils

According to the Soil Landscapes of Central and Eastern NSW the Site is underlain by the Megan erosional soil landscape (me) across the majority of the Site and the Coffs Creek alluvial landscape (cc) in the low lying riparian areas towards the northeast corner

The Megan Soil Landscape is located on rolling low hills to hills on on Late Carboniferous metasediments of the Coffs Harbour association in the Coast Range and Gleniffer-Bonville Hill, of moderately deep to deep (>100 cm), well-drained, structured Red Earths (Gn3.21), Brown Podzolic Soils (Db4.11) and Red Podzolic Soils (Dr2.11).

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## 6 Acid Sulfate Soils

## **6.1 Mapped Occurrences of ASS**

The published Woolgoolga 1:25,000 ASS Risk Map indicates that the majority of the Site and areas where soil disturbance and excavation is expected from the proposed development is not underlain by ASS soils. The lower northwestern corner of the Site is underlain by mapped low probability soils (Figure 4). The ASS risk mapping identifies that the ASS would inhabit an alluvial plain setting at >4m AHD, with ASS at >3m below the groundsurface.

The CHCC LEP Plan (2013) has identified the majority of the site as ASS Class 5, that is within the 500m buffer of mapped probability ASS soils (Figure 5).

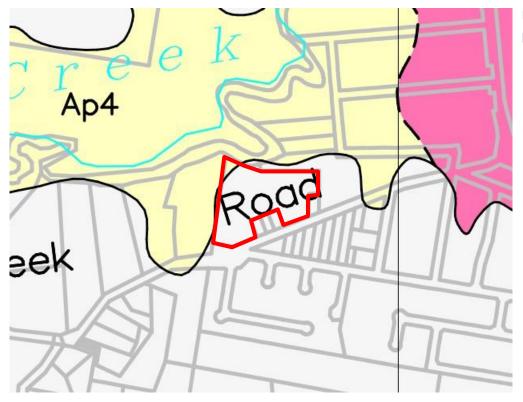


Figure 4. Mapped ASS probability.

T | P a g e

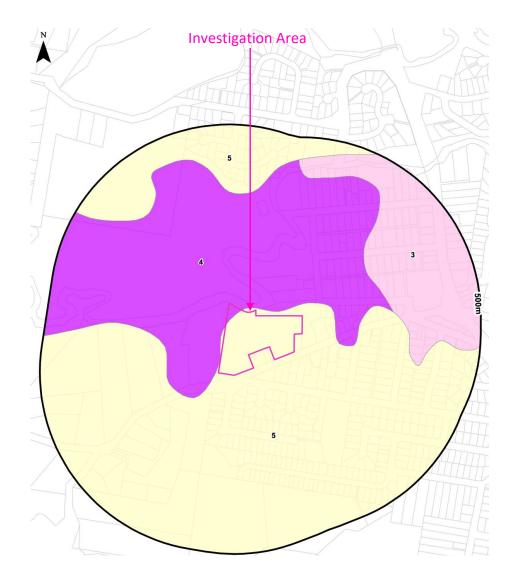


Figure 5. LEP ASS mapping.

## 7 Subsurface Conditions

Site soils were observed by drilling three boreholes (BH1-BH3). The boreholes of BH1 and BH3 were drilled to termination at 1.2m depth and BH2 was drilled to refusal at 0.8m depth. The location of the boreholes are shown in Figure 6 and a copy of the borehole logs are presented in Appendix A.

Natural residual clay soil profiles were observed in the boreholes, and were found to be representative of the Megan Soil Landscape, low to mid slope (dry) position. The lithology encountered included a brownish black to dark brown clay loam to 0.3m depth and brown mottled orange and white light clay to 1.2m depth. Extremely weathered bedrock was below the grey mottled white clay in BH2.

No rotten egg odours, shell pieces, dark grey to black anaerobic soils or muds were encountered. No groundwater inflow was observed in the boreholes to the maximum depth drilled.

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Figure 6. Borehole Locations.

#### 7.1 Biophysical Indicators

The proposed subdivision development is situated between 20m AHD and 9.5m AHD. No residential allotments are proposed near the riparian area of Woolgoolga Creek in the northwest corner and the alluvial terrace margins at the northeast of the Site.

No swamp type vegetation was observed on the proposed allotments. No surface water seepage was observed. Some standing surface water was observed at the northeast boundary corner and on the upper slope entrance from Pullen ST, possibly due to recent rainfall events.

## 7.2 ASS Screening Test Results

Eleven soil samples collected from BH1-BH3 and selected for field screening tests to determine their likelihood of containing Potential or Actual ASS (Pass/Aass) and whether further laboratory analyses would be necessary. The selected soil samples were placed in a chilled container (~4 C) and shipped to Eurofins for screening analysis.

The screening report is included in Appendix B and summarised in **Table 1**. In summary, the  $pH_{f,}$   $pH_{fox}$  of all analysed samples were found to be below the Aass and Pass indicator threshold limits. An elevated pH change was observed in all samples with some reaction rate, but is considered to be associated with generation of organic acids and not ASS.

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Table 1 – Summary of Field Screening

| Sample ID | Sample<br>Depth (m) | pH <sub>f</sub> (1:5) | pH <sub>fox</sub> (1:5) | pH<br>Change | Reaction |
|-----------|---------------------|-----------------------|-------------------------|--------------|----------|
| S-1       | 0.0-0.3             | 6.1                   | 5.1                     | 1.0          | 4        |
| S-2       | 0.3-0.6             | 6.2                   | 5.1                     | 1.1          | 4        |
| S-3       | 0.6-0.8             | 6.0                   | 4.3                     | 1.7          | 4        |
| S-4       | 0.8-1.0             | 5.7                   | 4.4                     | 1.3          | 4        |
| S-5       | 0.0-0.3             | 5.8                   | 3.8                     | 2.0          | 4        |
| S-6       | 0.3-0.55            | 5.7                   | 4.2                     | 1.5          | 2        |
| S-7       | 0.55-0.8            | 5.6                   | 4.1                     | 1.5          | 4        |
| S-8       | 0.0-0.3             | 6.0                   | 4.5                     | 1.5          | 4        |
| S-9       | 0.3-0.5             | 6.2                   | 4.6                     | 1.6          | 2        |
| S-10      | 0.5-0.75            | 5.6                   | 4.4                     | 1.2          | 2        |
| S-11      | 0.75-1.0            | 5.5                   | 4.3                     | 1.2          | 2        |
| Threshold |                     | <4.5                  | <3                      | <1-2         | 1-3      |

## 8 Conclusions and Recommendations

Broadscale ASS risk mapping shows no ASS probability beneath the majority of the Site, with mapped low probability in the lower northwestern corner at >3m depth. The site inspections of biophysical indicators indicates soils no ASS risk, borehole drilling confirmed residual soils only were encountered, and screening confirmed no ASS indicators.

As such no further investigations or plans of management are required.

If on the unlikely event that during he proposed development dark grey to black, odorous or waterlogged alluvial sands or clays are encountered, then works should be halted until confirmation of the presence of ASS is undertaken and/or remedial strategies developed.

## 9 References

Stone Y, Ahern C.R., and Blunden B (1998), *Acid Sulfate Soil Manual 1998*. Acid Sulfate Soil Management Advisory Committee (ASSMAC), Wollongbar, NSW, Australia.

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# **APPENDIX A**



# Soil Borelog

| •            | •                            | Borehole No:       | BH1             |
|--------------|------------------------------|--------------------|-----------------|
| CONSU        | TING                         | Logged by:         | RL              |
| ,            | E                            | Drilling date:     | 13/06/2024      |
| Project ref: | 2324-178                     | Drilling method:   | Powered Auger   |
| Client:      | Jeff Bulfin                  | Borehole location: | Figure 2        |
| Address:     | 54 Pullen Street, Woolgoolga | Borehole coords:   | 517904, 6668679 |

#### PROFILE DESCRIPTION

| Depth<br>(m) | Sampling<br>depth/name | Graphic Log | Horizon | Texture    | Structure | Colour           | Mottles | Coarse<br>Fragments | Moisture<br>Condition | Comments    |
|--------------|------------------------|-------------|---------|------------|-----------|------------------|---------|---------------------|-----------------------|-------------|
| 0.1          |                        |             | A1      | Clay Loam  | Strong    | Brownish Black   | Nil     | < 5%                | SM                    | Topsoil     |
| 0.2          | S1                     |             |         |            |           |                  |         |                     |                       |             |
| 0.3          |                        |             |         |            |           |                  |         |                     |                       |             |
| 0.4          |                        |             | B1      | Light Clay | Strong    | Brown            | Nil     | Nil                 | SM                    | Tranferral  |
| 0.5          | S2                     |             |         |            |           |                  |         |                     |                       |             |
| 0.6          |                        |             |         |            |           |                  |         |                     |                       |             |
| 0.7          | S3                     |             | B2      | Light Clay | Strong    | Dull Brown       | Nil     | Nil                 | SM                    | Transferral |
| 0.8          |                        |             |         |            |           |                  |         |                     |                       |             |
| 0.9          | S4                     |             |         |            |           |                  |         |                     |                       |             |
| 1.0          |                        |             |         |            |           |                  |         |                     |                       |             |
| 1.1          |                        |             |         |            |           |                  |         |                     |                       |             |
| 1.2          |                        |             |         |            |           |                  |         |                     |                       |             |
| 1.3          |                        |             |         |            | Boreh     | ole terminated a | t 1.2m  |                     |                       |             |
| 1.4          |                        |             |         |            |           |                  |         |                     |                       |             |
| 1.5          |                        | turo        |         |            |           |                  |         |                     |                       |             |

#### **Moisture condition**

| D  | Dry            | M  | Moist      | W | Wet / saturated |
|----|----------------|----|------------|---|-----------------|
| SM | Slightly moist | VM | Very moist |   |                 |



# Soil Borelog

| •            | •                            | Borehole No:       | BH2             |
|--------------|------------------------------|--------------------|-----------------|
| CONSU        | TING                         | Logged by:         | RL              |
| ,            |                              | Drilling date:     | 13/06/2024      |
| Project ref: | 2324-178                     | Drilling method:   | Powered Auger   |
| Client:      | Jeff Bulfin                  | Borehole location: | Figure 2        |
| Address:     | 54 Pullen Street, Woolgoolga | Borehole coords:   | 517804, 6668609 |

#### PROFILE DESCRIPTION

| Depth<br>(m) | Sampling<br>depth/name | Graphic Log | Horizon | Texture               | Structure | Colour            | Mottles | Coarse<br>Fragments | Moisture<br>Condition | Comments       |
|--------------|------------------------|-------------|---------|-----------------------|-----------|-------------------|---------|---------------------|-----------------------|----------------|
| 0.1          |                        |             | A1      | Clay Loam             | Strong    | Dark Brown        | Nil     | < 5%                | D                     | Topsoil        |
| 0.2          | S5                     |             |         |                       |           |                   |         |                     |                       |                |
| 0.3          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 0.4          |                        |             | B1      | Light Clay grading to | Moderate  | Light<br>Brownish | White   | Nil                 | D                     | Residual XWB   |
| 0.5          | S6                     |             |         | XWB                   |           | Grey              |         |                     |                       |                |
| 0.6          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 0.7          | <b>S</b> 7             |             |         |                       |           |                   |         |                     |                       |                |
| 0.8          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 0.9          |                        |             |         |                       | Bore      | ehole refusalat ( | 0.8m    |                     |                       | Refusal @ 0.8m |
| 1.0          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 1.1          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 1.2          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 1.3          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 1.4          |                        |             |         |                       |           |                   |         |                     |                       |                |
| 1.5          | B# - ' - 1             | uro ca      | !       | 4:                    |           |                   |         |                     |                       |                |

#### **Moisture condition**

| D  | Dry            | M  | Moist      | W | Wet / saturated |
|----|----------------|----|------------|---|-----------------|
| SM | Slightly moist | VM | Very moist |   |                 |



# Soil Borelog

| •            | •                            | Borehole No:       | вн3             |
|--------------|------------------------------|--------------------|-----------------|
| CONSU        | ITING                        | Logged by:         | RL              |
| ,            | E.                           | Drilling date:     | 13/06/2024      |
| Project ref: | 2324-178                     | Drilling method:   | Powered Auger   |
| Client:      | Jeff Bulfin                  | Borehole location: | Figure 2        |
| Address:     | 54 Pullen Street, Woolgoolga | Borehole coords:   | 517747, 6668579 |

#### PROFILE DESCRIPTION

| Depth<br>(m) | Sampling<br>depth/name | Graphic Log | Horizon | Texture    | Structure | Colour           | Mottles    | Coarse<br>Fragments | Moisture<br>Condition | Comments |
|--------------|------------------------|-------------|---------|------------|-----------|------------------|------------|---------------------|-----------------------|----------|
| 0.1          |                        |             | A1      | Clay Loam  | Strong    | Dark Brown       | Brown      | < 5%                | SM                    | Topsoil  |
| 0.2          | S8                     |             |         |            |           |                  |            |                     |                       |          |
| 0.3          |                        |             |         |            |           |                  |            |                     |                       |          |
| 0.4          | S9                     |             | B1      | Light Clay | Strong    | Bright Brown     | Orange     | Nil                 | SM                    | Residual |
| 0.5          |                        |             |         |            |           |                  |            |                     |                       |          |
| 0.6          | 640                    |             |         |            |           |                  |            |                     |                       |          |
| 0.7          | S10                    |             |         |            |           |                  |            |                     |                       |          |
| 0.8          |                        |             |         |            |           |                  |            |                     |                       |          |
| 0.9          | S11                    |             |         |            |           | Orango           | Light Crov |                     |                       |          |
| 1.0          |                        |             |         |            |           | Orange           | Light Grey |                     |                       |          |
| 1.1          |                        |             |         |            |           |                  |            |                     |                       |          |
| 1.2          |                        |             |         |            |           |                  |            |                     |                       |          |
| 1.3          |                        |             |         |            | Boreho    | ole terminated a | at 1.2m    |                     |                       |          |
| 1.4          |                        |             |         |            |           |                  |            |                     |                       |          |
| 1.5          | Moist                  |             | !       | (!         |           |                  |            |                     |                       |          |

#### **Moisture condition**

| D  | Dry            | M  | Moist      | W | Wet / saturated |
|----|----------------|----|------------|---|-----------------|
| SM | Slightly moist | VM | Very moist |   |                 |

# **APPENDIX B**



# **Environment Testing**

Earth Water Consulting Pty Limited 2-16 Lourdes Avenue Urunga NSW 2455

Attention: Strider Duerinckx

 Report
 1108049-S

 Project name
 PULLEN ST

 Project ID
 2324 - 178

 Received Date
 Jun 13, 2024

| Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled |     |          |               |               | S-3<br>Soil<br>S24-Jn0035804<br>Jun 13, 2024 | S-4<br>Soil<br>S24-Jn0035805<br>Jun 13, 2024 |
|---|-----|----------|---------------|---------------|--|--|
| Test/Reference Acid Sulfate Soils Field pH Test                 | LOR | Unit     | Juli 13, 2024 | Juli 13, 2024 | Juli 13, 2024                                | Juli 13, 2024                                |
| pH-F (Field pH test)*   | 0.1 | pH Units | 6.1           | 6.2           | 6.0  | 5.7  |
| pH-FOX (Field pH Peroxide test)*                                | 0.1 | pH Units | 5.1           | 5.1           | 4.3  | 4.4  |
| Reaction Ratings*S05  | 0   | comment  | 4.0           | 4.0           | 4.0  | 4.0  |

| Client Sample ID                 |     |          | S-5           | S-6           | S-7           | S-8           |
|----------------------------------|-----|----------|---------------|---------------|---------------|---------------|
| Sample Matrix                    |     |          | Soil          | Soil          | Soil          | Soil          |
| Eurofins Sample No.              |     |          | S24-Jn0035806 | S24-Jn0035807 | S24-Jn0035808 | S24-Jn0035809 |
| Date Sampled                     |     |          | Jun 13, 2024  | Jun 13, 2024  | Jun 13, 2024  | Jun 13, 2024  |
| Test/Reference                   | LOR | Unit     |               |               |               |               |
| Acid Sulfate Soils Field pH Test |     |          |               |               |               |               |
| pH-F (Field pH test)*            | 0.1 | pH Units | 5.8           | 5.7           | 5.6           | 6.0           |
| pH-FOX (Field pH Peroxide test)* | 0.1 | pH Units | 3.8           | 4.2           | 4.1           | 4.5           |
| Reaction Ratings*505             | 0   | comment  | 4.0           | 2.0           | 4.0           | 4.0           |

| Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled |     |          |     | Soil<br>S24-Jn0035811 | S-11<br>Soil<br>S24-Jn0035812<br>Jun 13, 2024 |
|---|-----|----------|-----|-----------------------|---|
| Test/Reference  | LOR | Unit     |     |                       |   |
| Acid Sulfate Soils Field pH Test                                |     |          |     |                       |   |
| pH-F (Field pH test)*   | 0.1 | pH Units | 6.2 | 5.6                   | 5.5   |
| pH-FOX (Field pH Peroxide test)*                                | 0.1 | pH Units | 4.6 | 4.4                   | 4.3   |
| Reaction Ratings*S05  | 0   | comment  | 2.0 | 2.0                   | 2.0   |

Report Number: 1108049-S



# **Environment Testing**

#### Sample History

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

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

DescriptionTesting SiteExtractedHolding TimeAcid Sulfate Soils Field pH TestSydneyJun 17, 20247 Days

- Method: LTM-GEN-7060 Determination of field pH (pHF) and field pH peroxide (pHFOX) tests

Report Number: 1108049-S



#### **Eurofins Environment Testing Australia Pty Ltd**

ABN: 50 005 085 521

Melbourne Geelong Canberra Brisbane Sydney 6 Monterey Road 19/8 Lewalan Street 179 Magowar Road Unit 1,2 Dacre Street 1/21 Smallwood Place 1/2 Frost Drive Dandenong South Grovedale Girraween Mitchell Murarrie VIC 3175 VIC 3216 NSW 2145 ACT 2911 QLD 4172 +61 2 9900 8400 +61 3 8564 5000 +61 3 8564 5000 +61 2 6113 8091 T: +61 7 3902 4600 NATA# 1261 NATA# 1261 NATA# 1261 NATA# 1261 NATA# 1261 Site# 20794 & 2780 Site# 1254 Site# 25403 Site# 18217 Site# 25466

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Address:

email: EnviroSales@eurofins.com

web: www.eurofins.com.au

Company Name: Earth Water Consulting Pty Limited

2-16 Lourdes Avenue

Urunga NSW 2455

Project Name: Project ID:

**PULLEN ST** 2324 - 178

Order No.: 2324-178 1108049 Report #: Phone:

Fax:

Newcastle

Mayfield West

+61 2 4968 8448

Site# 25079 & 25289

NSW 2304

NATA# 1261

Acid Sulfate Soils Field pH Test

0402 6083 96

Perth ProMicro

+61 8 6253 4444

Welshpool

NATA# 2561

Site# 2554

WA 6106

46-48 Banksia Road

Received: Jun 13, 2024 2:05 PM Jun 18, 2024 Due:

Priority: 3 Day

Contact Name: Strider Duerinckx

**Eurofins Analytical Services Manager: Andrew Black** 

#### Sample Detail

| Sydr | Sydney Laboratory - NATA # 1261 Site # 18217 |              |                  |        |               |    |  |  |  |  |  |  |  |
|------|--|--------------|------------------|--------|---------------|----|--|--|--|--|--|--|--|
| Exte | rnal Laboratory                              | 1            |                  |        |               |    |  |  |  |  |  |  |  |
| No   | Sample ID                                    | Sample Date  | Sampling<br>Time | Matrix | LAB ID        |    |  |  |  |  |  |  |  |
| 1    | S-1  | Jun 13, 2024 |                  | Soil   | S24-Jn0035802 | Х  |  |  |  |  |  |  |  |
| 2    | S-2  | Jun 13, 2024 |                  | Soil   | S24-Jn0035803 | Х  |  |  |  |  |  |  |  |
| 3    | S-3  | Jun 13, 2024 |                  | Soil   | S24-Jn0035804 | Χ  |  |  |  |  |  |  |  |
| 4    | S-4  | Jun 13, 2024 |                  | Soil   | S24-Jn0035805 | Χ  |  |  |  |  |  |  |  |
| 5    | S-5  | Jun 13, 2024 |                  | Soil   | S24-Jn0035806 | Х  |  |  |  |  |  |  |  |
| 6    | S-6  | Jun 13, 2024 |                  | Soil   | S24-Jn0035807 | Χ  |  |  |  |  |  |  |  |
| 7    | S-7  | Jun 13, 2024 |                  | Soil   | S24-Jn0035808 | Х  |  |  |  |  |  |  |  |
| 8    | S-8  | Jun 13, 2024 |                  | Soil   | S24-Jn0035809 | Χ  |  |  |  |  |  |  |  |
| 9    | S-9  | Jun 13, 2024 |                  | Soil   | S24-Jn0035810 | Х  |  |  |  |  |  |  |  |
| 10   | S-10   | Jun 13, 2024 |                  | Soil   | S24-Jn0035811 | Χ  |  |  |  |  |  |  |  |
| 11   | S-11   | Jun 13, 2024 |                  | Soil   | S24-Jn0035812 | Χ  |  |  |  |  |  |  |  |
| Test | Counts                                       |              |                  |        |               | 11 |  |  |  |  |  |  |  |



#### Internal Quality Control Review and Glossary

#### General

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

#### **Holding Times**

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

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

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

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

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

#### Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ppm: parts per million μg/L: micrograms per litre ppb: parts per billion %: Percentage

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

Colour: Pt-Co Units (CU) CFU: Colony Forming Unit

#### Terms

APHA American Public Health Association CEC Cation Exchange Capacity COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report CRM Certified Reference Material (ISO17034) - reported as percent recovery.

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

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

LOR Limit of Reporting.

LCS Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within. NCP

RPD Relative Percent Difference between two Duplicate pieces of analysis SPIKE Addition of the analyte to the sample and reported as percentage recovery

SRA Sample Receipt Advice

The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria Surr - Surrogate

Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits. TRTO

TCI P Toxicity Characteristic Leaching Procedure TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 6.0

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

#### QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

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

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50% Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 - 150%, VOC recoveries 50 - 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

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

- 1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data



# **Environment Testing**

#### **Quality Control Results**

| Test                             | Lab Sample ID | QA<br>Source | Units    | Result 1 |          |      | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|----------------------------------|---------------|--------------|----------|----------|----------|------|----------------------|----------------|--------------------|
| Duplicate                        |               |              |          |          |          |      |                      |                |                    |
| Acid Sulfate Soils Field pH Test |               |              |          | Result 1 | Result 2 | RPD  |                      |                |                    |
| pH-F (Field pH test)*            | S24-Jn0035802 | CP           | pH Units | 6.1      | 6.0      | pass | 20%                  | Pass           |                    |
| pH-FOX (Field pH Peroxide test)* | S24-Jn0035802 | CP pH Units  |          | 5.1      | 5.2      | pass | 0%                   | Pass           |                    |
| Duplicate                        |               |              |          |          |          |      |                      |                |                    |
| Acid Sulfate Soils Field pH Test |               |              |          | Result 1 | Result 2 | RPD  |                      |                |                    |
| pH-F (Field pH test)*            | S24-Jn0035812 | CP           | pH Units | 5.5      | 5.6      | pass | 20%                  | Pass           |                    |
| pH-FOX (Field pH Peroxide test)* | S24-Jn0035812 | СР           | pH Units | 4.3      | 4.3      | pass | 0%                   | Pass           |                    |

Report Number: 1108049-S



# **Environment Testing**

#### Comments

#### Sample Integrity

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

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

Code

Field Screen uses the following fizz rating to classify the rate the samples reacted to the peroxide: 1.0; No reaction to slight. 2.0; Moderate reaction. 3.0; Strong reaction with persistent froth. 4.0; Extreme reaction. S05

#### Authorised by:

Nileshni Goundar Analytical Services Manager

Glenn Jackson **Managing Director** 

Final Report - this report replaces any previously issued Report

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

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

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Report Number: 1108049-S

| \$\$                                       | CHAIN OF CUSTODY RECORD  Eurofins   mgr Asin 60 005 035 521  | Sydne Unit F3 102 9900   |        | Unit 1 21 Sr | Laboratory mallwood Place Mil           |             |   | Uni                       |             | oratory<br>ach Highway K<br>O EnviroSam |                    |                     |   |               | Melbourne Laboratory 2 Kingston Town Close Oakleigh VIC 3166 |                   |               |                      |                      |                     |   |   |             |  |
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