

## CERTIFICATE OF ANALYSIS

Customer: EPA Tasmania  
Address: GPO Box 1550 HOBART TAS 7001

Submission Description: Investigation  
Sample Received Date: 26/02/2025  
Contract Number: 2902  
Client Order Number:

*Sample(s) analysed as received. Sampling date and time data supplied by the client. The document shall not be reproduced except in full.*

*Additional information relating to this submission can be found in the sample receipt notification.*

*This report supersedes any previous reports with this submission number.*

*Many tests specify a holding time which gives the recommended timeframe by which a sample should be preserved/extracted and/or analysed after the sample is taken.*

*Holding time information can be found on the AST website <https://analyticalservices.tas.gov.au/our-services/containers-samples-and-submissions>.*

*Whilst every effort is made to analyse samples within these timeframes, situations can occur where this is not possible.*

*Where a test has been conducted outside the recommended sample holding time this should be taken into account when interpreting results.*

### The results in this report were authorised by:

Name	Position	Name	Position
	Chemist		Section Head - Organic Chemistry

**Test Information:**

<i>Method ID</i>	<i>Test Description</i>	<i>Date Commenced:</i>
2001	Moisture in Soil and Other Solids at 104 ± 3 °C	27-02-2025
2403	Total Petroleum Hydrocarbons (TPH) in Soil and Other Solids by GC-FID	27-02-2025
2403P	Sample Preparation for Total Petroleum Hydrocarbons (TPH) in Soil and Other Solids	27-02-2025
2419	Lipid Biomarkers in Soil and other Solids by GC-MS	N/A
2419F	Lipid Biomarkers in Soil and other Solids by GC-MS (Fatty Acid Profile)	N/A
2419P	Sample Preparation for Lipid Biomarkers in Solids by GC-MS	04-03-2025
2515	Antibiotics in Soil by LC-MS/MS	27-02-2025
2515P	Sample Preparation for Antibiotics in Soil	27-02-2025

*Sample Comments***Sample Number: 253385**

Moisture content was not performed on Sample 253385 due to limited sample mass. All results are reported on a Wet Matter Basis (WMB). OTC results are semi-quantitative only due to small sample size available.

**Sample Number: 253386****2403 Total Petroleum Hydrocarbons (TPH) in Soil and Other Solids by GC-FID**

While a value is reported for TPH within this Report, the material detected was not consistent with genuine TPH, and represents interference from other natural organic material extracted from the sample.

**Sample Number: 253387****2403 Total Petroleum Hydrocarbons (TPH) in Soil and Other Solids by GC-FID**

While a value is reported for TPH within this Report, the material detected was not consistent with genuine TPH, and represents interference from other natural organic material extracted from the sample.

\* NATA accreditation does not cover this result

Chemistry Test Results (Soil -  
Sediment - Solid Waste)

		Sample Description	West Jetty	Eastern Jetty	Mort Net
		Sampled Date/ Time	26/02/25 12:09	26/02/25 13:03	26/02/25 12:23
Method ID	Analyte	Units	253385	253386	253387
2403	TPH C06-C09	mg/kg DMB		360	1300
	TPH C10-C14	mg/kg DMB		1800	4700
	TPH C15-C28	mg/kg DMB		57000	93000
	TPH C29-C36	mg/kg DMB		10000	13000
	TPH Sum C6-C36	mg/kg DMB		69000	110000
2419	22-Dehydrocholesterol	µg/g DMB	Pending	Pending	Pending
	24:0 n-alkanol	µg/g DMB	Pending	Pending	Pending
	24-ethylcoprostanol	µg/g DMB	Pending	Pending	Pending
	24-Ethyl-epi-coprostanol	µg/g DMB	Pending	Pending	Pending
	24-Methylenecholesterol	µg/g DMB	Pending	Pending	Pending
	26:0 n-alkanol	µg/g DMB	Pending	Pending	Pending
	28:0 n-alkanol	µg/g DMB	Pending	Pending	Pending
	5α-Cholestanol	µg/g DMB	Pending	Pending	Pending
	Brassicasterol	µg/g DMB	Pending	Pending	Pending
	Campesterol	µg/g DMB	Pending	Pending	Pending
	Cholesterol	µg/g DMB	Pending	Pending	Pending
	Coprostanol	µg/g DMB	Pending	Pending	Pending
	Desmosterol	µg/g DMB	Pending	Pending	Pending
	Dinosterol	µg/g DMB	Pending	Pending	Pending
	Epicoprostanol	µg/g DMB	Pending	Pending	Pending
	Ergosterol	µg/g DMB	Pending	Pending	Pending
	Isofucoesterol	µg/g DMB	Pending	Pending	Pending
	Phytol	µg/g DMB	Pending	Pending	Pending
	Sitostanol	µg/g DMB	Pending	Pending	Pending
	Sitosterol	µg/g DMB	Pending	Pending	Pending
β-Amyrin	µg/g DMB	Pending	Pending	Pending	
Stigmasterol	µg/g DMB	Pending	Pending	Pending	
α-Amyrin	µg/g DMB	Pending	Pending	Pending	

\* NATA accreditation does not cover this result

Chemistry Test Results (Soil -  
Sediment - Solid Waste)

		Sample Description	West Jetty	Eastern Jetty	Mort Net
		Sampled Date/ Time	26/02/25 12:09	26/02/25 13:03	26/02/25 12:23
Method ID	Analyte	Units	253385	253386	253387
2419F	16 PUFA Hexadecatetraenoic Acid	%	Pending	Pending	Pending
	14:0 Mystric Acid	%	Pending	Pending	Pending
	15:0 Pentadecanoic Acid	%	Pending	Pending	Pending
	16:0 Palmitic Acid	%	Pending	Pending	Pending
	16:1 $\omega$ 5 Hexadeconoic Acid	%	Pending	Pending	Pending
	16:1 $\omega$ 7 Palmitoleic Acid	%	Pending	Pending	Pending
	17:0 Margoric Acid	%	Pending	Pending	Pending
	18:0 Stearic Acid	%	Pending	Pending	Pending
	18:1 $\omega$ 7 Vaccenic Acid	%	Pending	Pending	Pending
	18:1 $\omega$ 9 Oleic Acid	%	Pending	Pending	Pending
	18:2 $\omega$ 6 Linoleic Acid	%	Pending	Pending	Pending
	18:3 $\omega$ 3 $\alpha$ -Linolenic Acid	%	Pending	Pending	Pending
	18:3 $\omega$ 6 $\gamma$ -Linolenic Acid	%	Pending	Pending	Pending
	18:4 $\omega$ 3 Stearidonic Acid	%	Pending	Pending	Pending
	20:0 Arachidic Acid	%	Pending	Pending	Pending
	20:1 $\omega$ 11 Gadoleic Acid	%	Pending	Pending	Pending
	20:1 $\omega$ 9 Gondoic Acid	%	Pending	Pending	Pending
	20:2 $\omega$ 6 Eicosadienoic Acid	%	Pending	Pending	Pending
	20:4 $\omega$ 6 Arachidonic Acid	%	Pending	Pending	Pending
	20:5 $\omega$ 3 Eicosapentaenoic Acid	%	Pending	Pending	Pending
	22:0 Behenic Acid	%	Pending	Pending	Pending
	22:1 $\omega$ 11 Docosenoic Acid	%	Pending	Pending	Pending
	22:1 $\omega$ 9 Erucic Acid	%	Pending	Pending	Pending
	22:5 $\omega$ 3 Docosapentaenoic Acid	%	Pending	Pending	Pending
	22:6 $\omega$ 3 Docosahehexaenoic Acid	%	Pending	Pending	Pending
	24:0 Lignoceric Acid	%	Pending	Pending	Pending
	Interpretive Report	-	Pending	Pending	Pending
$\alpha$ 15:0 Methyltetradecanoic Acid	%	Pending	Pending	Pending	

\* NATA accreditation does not cover this result

Chemistry Test Results (Soil -  
Sediment - Solid Waste)

		Sample Description	West Jetty	Eastern Jetty	Mort Net
		Sampled Date/ Time	26/02/25 12:09	26/02/25 13:03	26/02/25 12:23
Method ID	Analyte	Units	253385	253386	253387
2419F	$\alpha$ 17:0 Methylhexanoic Acid	%	Pending	Pending	Pending
	<i>i</i> 15:0 Methyltetradecanoic Acid	%	Pending	Pending	Pending
	<i>i</i> 16:0 Methylpentadecanoic Acid	%	Pending	Pending	Pending
	<i>i</i> 17:0 Methylhexadecanoic Acid	%	Pending	Pending	Pending
2515	Oxytetracycline	mg/kg DMB	21*	3.5*	7.2*

\* NATA accreditation does not cover this result