CERTIFICATE OF ANALYSIS

Batch No: **26-49495**
Final Report **376748**

Client: **GWM Water**
Contact: **Wastewater Quality Officer**
Address: PO Box 481
HORSHAM
VIC
3402

Laboratory Scoresby Laboratory
Address Caribbean Business Park,
22 Dalmore Drive,
Scoresby,
VIC 3179
Phone 03 8756 8000
Fax 03 9763 1862
Contact: Carmin Depalma
Carmin.DePalma@alsglobal.com

PO No: **Not Available**
Sampler Name: **Matt Williams**
ALS Program Ref: **TPHORSHAM**
Program Description: **Horsham Wastewater Treatment Plant Monitoring**
Client Ref: **Horsham WWTP Discharge**

Date Sampled: **20-Aug-2026**
Date Samples Received: **21-Aug-2026**
Date Issued: **27-Aug-2026**

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service .

Analysis		*Method*	*Laboratory*	*Analysis*		*Method*	*Laboratory*
DO	#	CLIENT	Scoresby	Temp.	#	CLIENT	Scoresby
BOD5		WP030	Scoresby	Colilert (2000)		MM514	Scoresby
EC		WA010	Scoresby	TCN		WK062	Scoresby
NH3 as N		WK055G	Scoresby	NO2-N		EK057G	Scoresby
NO3-N		EK058GV	Scoresby	NOX as N		EK058V & 059GV	Scoresby
pH		WA005	Scoresby	SS at 104+/- 2°C		WA025	Scoresby
TKN/TP (HL)		WK061A 067A	Scoresby	Turbidity		WA045	Scoresby

Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.
Samples tested for Colilert (MM514), Plate Count (MM524) or Enterolert (MM517),sampled before 11am the previous day will be outside holding time

Signatories

Name	*Title*	*Name*	*Title*
Asiri Nissanka	**Laboratory Technician**	**Carmin De Palma**	**Client Manager**
Hoa T. Nguyen	**Analyst**	**Jessica Kelly**	**Chemist / Analyst**
Mary Semeredi	**Analyst**	**Thanh U. Nguyen**	**Analyst**
Nazish Shehzad	**Analyst**		

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.
Samples are tested within holding time unless otherwise stated.

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Program Description: **Horsham Wastewater Treatment Plant Monitoring**

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Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
12853013	SLHOR001	46252 - Final Lagoon Effluent (Winter Storage) Horsham	WATER	20/08/26 10:30
12853022	SLHOR002	46252 - Final Discharge_Post DAF_Horsham WWTP	WATER	20/08/26 09:00
12853031	SOHOR002	46252 - VIDA Storage (700 ML) Effluent	WATER	20/08/26 11:30

Analysis - Analyte	Sample No. / Site Code / Units	LOR	12853013 SLHOR001	12853022 SLHOR002	12853031 SOHOR002
Temp. - Water Temperature (CS)	°C	-	10.0	11.0	10.5
DO - Dissolved Oxygen (CS)	mg/L	-	8.0	4.0	9.5
pH - pH, units	Units	-	7.9	7.1	8.1
BOD5 - Biochemical Oxygen Demand, 5 Day	mg/L	2	3	21	<2
TKN/TP (HL) - Total Kjeldahl Nitrogen as N	mg N / L	0.1	8.0	5.6	2.1
TKN/TP (HL) - Phosphorus, total as P	mg P / L	0.05	6.0	5.5	3.9
SS at 104+/- 2°C - Suspended Solids	mg/L	2	12	7	9
EC - Electrical Conductivity @ 25C	uS/cm	2	1400	1400	1800
Turbidity - Turbidity, NTU	NTU	0.1	12	17	8.1
TCN - Total Nitrogen as N (Calc)	mg/L	0.1	10	7.3	3.4
NH3 as N - Ammonia, as N	mg N / L	0.1	5.5	4.8	0.4
NOX as N - Nitrate + Nitrite, as N	mg N / L	0.01	2.0	1.7	1.3
NO3-N - Nitrate, as N	mg N / L	0.01	1.9	0.65	1.2
NO2-N - Nitrite, as N	mg N / L	0.01	0.16	1.0	0.11
Colilert (2000) - E.coli	MPN/100mL	0	21	10	6

Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
12853040	SOHOR005	46252 - Wimmera River - Upstream	WATER	20/08/26 09:30
12853049	SOHOR010	46252 - Wimmera River (Downstream) Horsham	WATER	20/08/26 09:45
12853058	SOHOR011	46252 - Wimmera River-Discharge Point Horsham	WATER	20/08/26 10:00

Analysis - Analyte	Sample No. / Site Code / Units	LOR	12853040 SOHOR005	12853049 SOHOR010	12853058 SOHOR011
Temp. - Water Temperature (CS)	°C	-	9.8	9.5	9.0
DO - Dissolved Oxygen (CS)	mg/L	-	5.5	7.5	8.5
pH - pH, units	Units	-	7.2	7.2	7.9
BOD5 - Biochemical Oxygen Demand, 5 Day	mg/L	2	<2	<2	3
TKN/TP (HL) - Total Kjeldahl Nitrogen as N	mg N / L	0.1	2.1	2.0	2.0
TKN/TP (HL) - Phosphorus, total as P	mg P / L	0.05	0.31	0.28	3.8
SS at 104+/- 2°C - Suspended Solids	mg/L	2	38	30	8
EC - Electrical Conductivity @ 25C	uS/cm	2	570	590	1800
Turbidity - Turbidity, NTU	NTU	0.1	100	100	8.5
TCN - Total Nitrogen as N (Calc)	mg/L	0.1	2.4	2.3	3.8
NH3 as N - Ammonia, as N	mg N / L	0.1	0.3	1.9	0.2
NOX as N - Nitrate + Nitrite, as N	mg N / L	0.01	0.27	0.28	1.7
NO3-N - Nitrate, as N	mg N / L	0.01	0.26	0.27	1.6
NO2-N - Nitrite, as N	mg N / L	0.01	0.01	0.01	0.08
Colilert (2000) - E.coli	MPN/100mL	0	410	240	4

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Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
12853067	SOHOR014	46252 - McKenzie River - Upstream Horsham	WATER	20/08/26 11:00

Analysis - Analyte	*Sample No. Site Code Units*	*LOR*	12853067 SOHOR014
Temp. - Water Temperature (CS)	°C	-	11.0
DO - Dissolved Oxygen (CS)	mg/L	-	4.0
pH - pH, units	Units	-	6.9
BOD5 - Biochemical Oxygen Demand, 5 Day	mg/L	2	7
TKN/TP (HL) - Total Kjeldahl Nitrogen as N	mg N / L	0.1	3.5
TKN/TP (HL) - Phosphorus, total as P	mg P / L	0.05	1.1
SS at 104+/- 2°C - Suspended Solids	mg/L	2	44
EC - Electrical Conductivity @ 25C	uS/cm	2	170
Turbidity - Turbidity, NTU	NTU	0.1	220
TCN - Total Nitrogen as N (Calc)	mg/L	0.1	3.7
NH3 as N - Ammonia, as N	mg N / L	0.1	<0.1
NOX as N - Nitrate + Nitrite, as N	mg N / L	0.01	0.26
NO3-N - Nitrate, as N	mg N / L	0.01	0.26
NO2-N - Nitrite, as N	mg N / L	0.01	<0.05 LINT
Colilert (2000) - E.coli	MPN/100mL	0	13000

LINT Level of Reporting raised due to interferences in the sample matrix

A blank space indicates no test performed.