



APPENDIX
9-2

Lab Reports

Cahermurphy WF Phase 1 SW Quality Monitoring Data

Date	Year	Month	Location ID	Nitrate mg NO3/l	Orthophosphate mg P/l	Total Phosphorus mg P/l	BOD mg O2/l	Ammonia mg NH4/l	TPH mg/l	Suspended Solids mg/l
17/01/2019	2019	1	SW1	0.2	0.03	0.057	1	0.006	0.01	10
21/02/2019	2019	2	SW1	1	0.03	0.027	1	0.006	0.01	10
13/03/2019	2019	3	SW1	0.2	0.03	0.043	2	0.006	0.01	10
10/04/2019	2019	4	SW1	0.2	0.04	0.057	1	0.006	0.01	10
22/05/2019	2019	5	SW1	0.2	0.03	0.053	1	0.006	0.01	10
04/06/2019	2019	6	SW1	0.7	0.03	0.054	1	0.006	0.01	10
03/07/2019	2019	7	SW1	0.2	0.04	0.075	1	0.006	0.01	10
07/08/2019	2019	8	SW1	0.3	0.03	0.07	1	0.006	0.01	10
24/09/2019	2019	9	SW1	0.02	0.11	0.101	1	0.006	0.01	10
09/10/2019	2019	10	SW1	0.4	0.03	0.063	1	0.006	0.01	10
06/11/2019	2019	11	SW1	0.6	0.04	0.051	1	0.006	0.01	10
11/12/2019	2019	12	SW1	0.8	0.06	0.066	1	0.006	0.01	10
27/01/2020	2020	1	SW1	0.5	0.05	0.074	1	0.006	0.01	10
19/02/2020	2020	2	SW1	0.8	0.03	0.064	1	0.006	0.01	10
12/03/2020	2020	3	SW1	1.4	0.06	0.069	1	0.006	0.01	10
17/01/2019	2019	1	SW2	0.08	0.03	0.06	1	0.006	0.01	10
21/02/2019	2019	2	SW2	0.05	0.03	0.02	1	0.006	0.01	10
13/03/2019	2019	3	SW2	1	0.03	0.049	1	0.006	0.01	10
10/04/2019	2019	4	SW2	0.6	0.03	0.041	1	0.006	0.01	10
22/05/2019	2019	5	SW2	0.02	0.03	0.058	1	0.006	0.01	10
04/06/2019	2019	6	SW2	0.09	0.03	0.044	1	0.006	0.01	10
03/07/2019	2019	7	SW2	0.5	0.04	0.125	2	0.006	0.01	10
07/08/2019	2019	8	SW2	0.4	0.03	0.066	1	0.006	0.01	10
24/09/2019	2019	9	SW2	0.3	0.06	0.101	1	0.006	0.01	10
09/10/2019	2019	10	SW2	0.7	0.05	0.075	1	0.006	0.01	10
06/11/2019	2019	11	SW2	1.1	0.04	0.062	1	0.006	0.01	10
11/12/2019	2019	12	SW2	1.4	0.05	0.059	1	0.006	0.01	10
27/01/2020	2020	1	SW2	0.9	0.05	0.075	1	0.006	0.01	10
19/02/2020	2020	2	SW2	1.1	0.04	0.072	1	0.006	0.01	10
12/03/2020	2020	3	SW2	0.4	0.04	0.05	1	0.006	0.01	10
17/01/2019	2019	1	SW3	0.02	0.03	0.042	1	0.006	0.01	10
21/02/2019	2019	2	SW3	0.04	0.03	0.023	1	0.006	0.01	10
13/03/2019	2019	3	SW3	0.02	0.03	0.042	1	0.006	0.01	10
10/04/2019	2019	4	SW3	0.2	0.03	0.048	1	0.006	0.01	10
22/05/2019	2019	5	SW3	0.2	0.03	0.058	1	0.006	0.01	10
04/06/2019	2019	6	SW3	0.6	0.03	0.046	1	0.006	0.01	10
03/07/2019	2019	7	SW3	0.2	0.05	0.085	2	0.006	0.01	10
07/08/2019	2019	8	SW3	0.3	0.03	0.052	1	0.006	0.01	10
24/09/2019	2019	9	SW3	0.6	0.04	0.059	1	0.006	0.01	10
09/10/2019	2019	10	SW3	0.3	0.06	0.066	1	0.006	0.01	10
06/11/2019	2019	11	SW3	0.4	0.03	0.057	1	0.006	0.01	10
11/12/2019	2019	12	SW3	0.8	0.03	0.045	1	0.006	0.01	10
27/01/2020	2020	1	SW3	0.7	0.03	0.044	1	0.006	0.01	10
19/02/2020	2020	2	SW3	0.9	0.03	0.038	1	0.006	0.01	10
12/03/2020	2020	3	SW3	1.5	0.11	0.119	1	0.006	0.01	10

CERTIFICATE OF ANALYSIS



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Hydro Environmental Services
Hydro Environmental Services
22 Lower Main Street
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Certificate Number: CLN121494-1 Final
Date Reported: 21/10/2025
Date Analysis Started: 06/10/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN399778	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW1 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<5	mg/L O ₂	
		P202	Suspended Solids	6	mg/L	
		P281	Chloride	25.3	mg/L Cl	
		P285	Total Nitrogen	2.1	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.29	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.03	mg/L P	
CLN399779	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW2 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	85	mg/L O ₂	
		P202	Suspended Solids	5	mg/L	
		P281	Chloride	26.8	mg/L Cl	
		P285	Total Nitrogen	2.1	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.04	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.10	mg/L P	
		P293	Orthophosphate	0.06	mg/L P	
CLN399780	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW3 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	27	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	24.2	mg/L Cl	
		P285	Total Nitrogen	2.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	



Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN399781	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW4 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	24	mg/L O ₂	
		P202	Suspended Solids	5	mg/L	
		P281	Chloride	22.6	mg/L Cl	
		P285	Total Nitrogen	1.7	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.53	mg/L N	
		P281	Ammonia	0.04	mg/L NH ₃ -N	
		P281	Nitrate	7.1	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.02	mg/L P	
CLN399782	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW5 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	2	mg/L O ₂	
		P202	Suspended Solids	12	mg/L	
		P281	Chloride	20.0	mg/L Cl	
		P285	Total Nitrogen	1.9	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.44	mg/L N	
		P281	Ammonia	0.06	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.04	mg/L P	
CLN399783	Prod: Rcvd Dt: 03/10/2025 Start Testing: 06/10/2025 Description: Cohermurphy 03/10/25 SW7 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	3	mg/L O ₂	
		P202	Suspended Solids	18	mg/L	
		P281	Chloride	23.2	mg/L Cl	
		P285	Total Nitrogen	2.8	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.64	mg/L N	
		P281	Ammonia	0.08	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.06	mg/L P	

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Hydro Environmental Services
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Certificate Number: CLN082703-1 Final
Date Reported: 15/08/2025
Date Analysis Started: 30/07/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN274373	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW129/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	13	mg/L O ₂	
		P202	Suspended Solids	6	mg/L	
		P281	Chloride	32.0	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN274374	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW2 29/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	10	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	31.1	mg/L Cl	
		P285	Total Nitrogen	1.2	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.60	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.14	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN274375	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW3 29/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	13	mg/L O ₂	
		P202	Suspended Solids	7	mg/L	
		P281	Chloride	34.5	mg/L Cl	
		P285	Total Nitrogen	1.5	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.05	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.02	mg/L P	



Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN274376	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW4 29/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	9	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	25.5	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.14	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN274377	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW5 29/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	7	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	26.5	mg/L Cl	
		P285	Total Nitrogen	1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.61	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN274378	Prod: Rcvd Dt: 30/07/2025 Start Testing: 30/07/2025 Description: SW6 29/07/2025 12:00-16:00 Cahermurphy Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<5	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	27.6	mg/L Cl	
		P285	Total Nitrogen	1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	