Project: Amalgamated Water 2023-2024	Monitoring requirements:	Quarterly during discharge	ALS Sample ID	ME2301251	ME2301630001	ME2302166003	ME2400529002				
RESULTS OF ANALYSIS - ALS Global Environmental Division Mudgee			Date	11/07/2023	5/09/2023	30/11/2023	20/03/2024	Lowest Sample	Highest Sample	Mean	100 percentile concentration limit
Parameter	Method	Unit	LOR - Limit of Reporting								
EA005: pH											
pH Value	EA005	pH Unit	0.01	8.3	8.4	8.4	8.4	8.3	8.4	8.375	6.5-8.5
EA010: Conductivity											
Electrical Conductivity @ 25°C	EA010	µS/cm	1	889	891	879	900	879	900	889.75	
EA025: Total Suspended Solids dried at 104 ± 2°C											
Suspended Solids (SS)	EA025	mg/L	1	<1	<1	1	18	<1	18	<5.25	50
EA065: Total Hardness as CaCO3											
Total Hardness as CaCO3	ED093F	mg/L	1	340	320	343	327	320	343	332.5	
ED037P: Alkalinity by PC Titrator											
Bicarbonate Alkalinity as CaCO3	ED037-P	mg/L	1	190	184	190	191	184	191	188.75	
Carbonate Alkalinity as CaCO3	ED037-P	mg/L	1	<1	<1	6	1	<1	6	<2.25	
Hydroxide Alkalinity as CaCO3	ED037-P	mg/L	1	<1	<1	<1	<1	<1	<1	<1	
Total Alkalinity as CaCO3	ED037-P	mg/L	1	190	184	196	192	184	196	190.5	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA											
Sulfate as SO4 - Turbidimetric	ED041G	mg/L	1	135	139	114	153	114	153	135.25	
ED045G: Chloride by Discrete Analyser											
Chloride	ED045G	mg/L	1	100	105	107	94	94	107	101.5	
ED093F: Dissolved Major Cations											
Calcium	ED093F	mg/L	1	67	62	68	70	62	70	66.75	
Magnesium	ED093F	mg/L	1	42	40	42	37	37	42	40.25	
Potassium	ED093F	mg/L	1	3	59	4	3	3	59	17.25	
Sodium	ED093F	mg/L	1	63	3	61	59	3	63	46.5	
EG020T: Total Metals by ICP-MS											
Arsenic	EG020A-T	mg/L	0.001	<0.001	0.002	0.002	0.001	<0.001	0.002	<0.006	
Cadmium	EG020A-T	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	EG020A-T	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	EG020A-T	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Iron	EG020A-T	mg/L	0.05	<0.05	<0.05	<0.001	0.12	<0.001	0.12	0.05525	
Lead	EG020A-T	mg/L	0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001	
Nickel	EG020A-T	mg/L	0.001	<0.001	<0.001	0.006	0.002	<0.001	0.006	<0.0025	
Zinc	EG020A-T	mg/L	0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.05	<0.01625	
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EN055: Ionic Balance											
Ionic Balance	EN055 - PG	%	0.01	0.99	2.71	1.57	2.61	0.99	2.61	1.97	
Total Anions	EN055 - PG	meq/L	0.01	9.43	9.53	9.31	9.67	9.31	9.67	9.485	
Total Cations	EN055 - PG	meq/L	0.01	9.62	9.03	9.6	9.18	9.03	9.62	9.3575	
EP020: Oil and Grease (O&G)											
Oil & Grease	EP020	mg/L	5	<5	<5	<5	<5	<5	<5	<5	10