Eurobodalla Southern Water Supply Storage – Surface Water Monitoring

Table 4.1 Monitoring network location and summary

Location ID	Easting (MGA94)	Northing (MGA94)	Type (Catchment)	Location description & rationale	Control / impact
CSW1	230208	5996017	Unnamed Creek	Upstream of construction site	Control
CSW2	230545	5997706	Unnamed Creek	Site boundary at unnamed creekline	Impact
CSW3	231083	5998635	Unnamed Creek	Downstream of construction site immediately before entering Tuross River	Impact
CSW4	230086	5998136	Tuross River	Upstream of construction site	Control
CSW5	231446	5998780	Tuross River	Approx 100m downstream of Tuross River and Unnamed Creek confluence	Impact

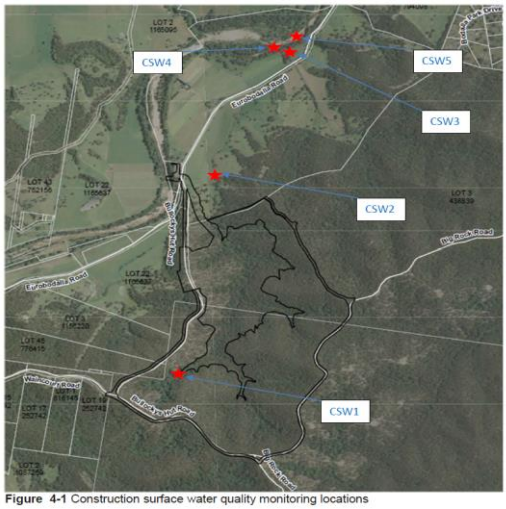
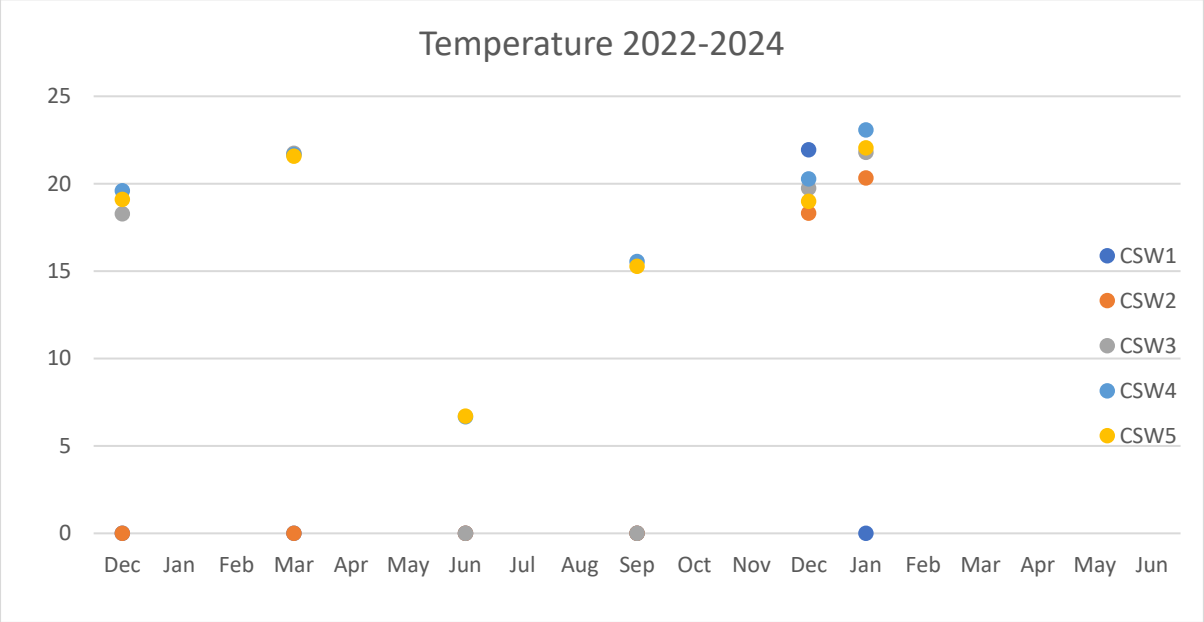
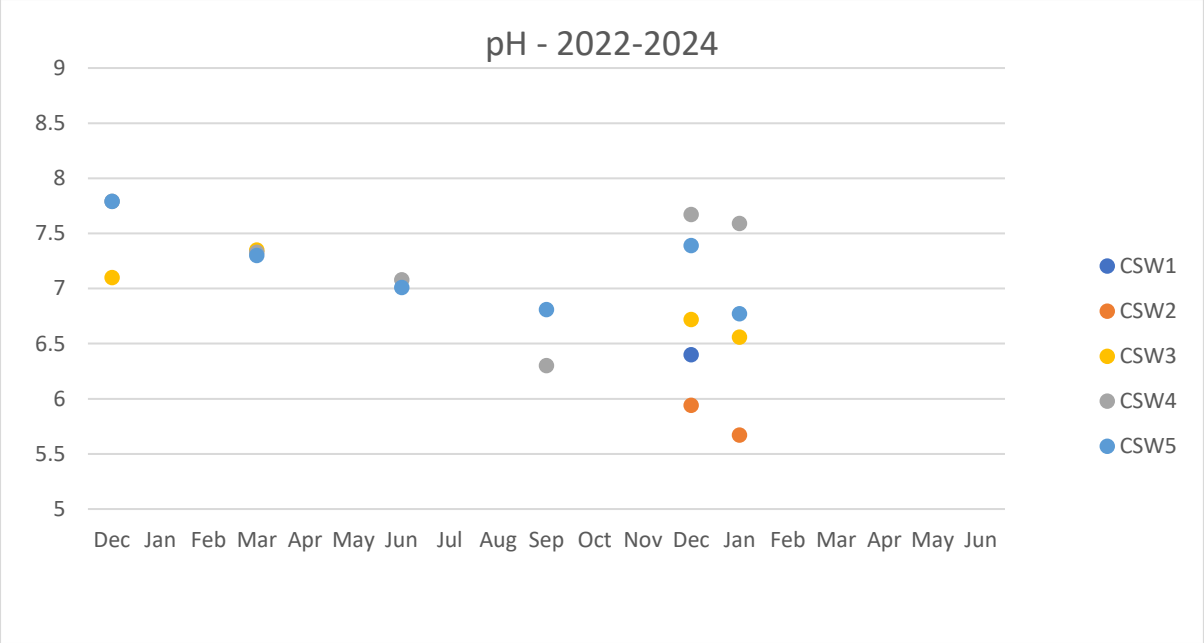
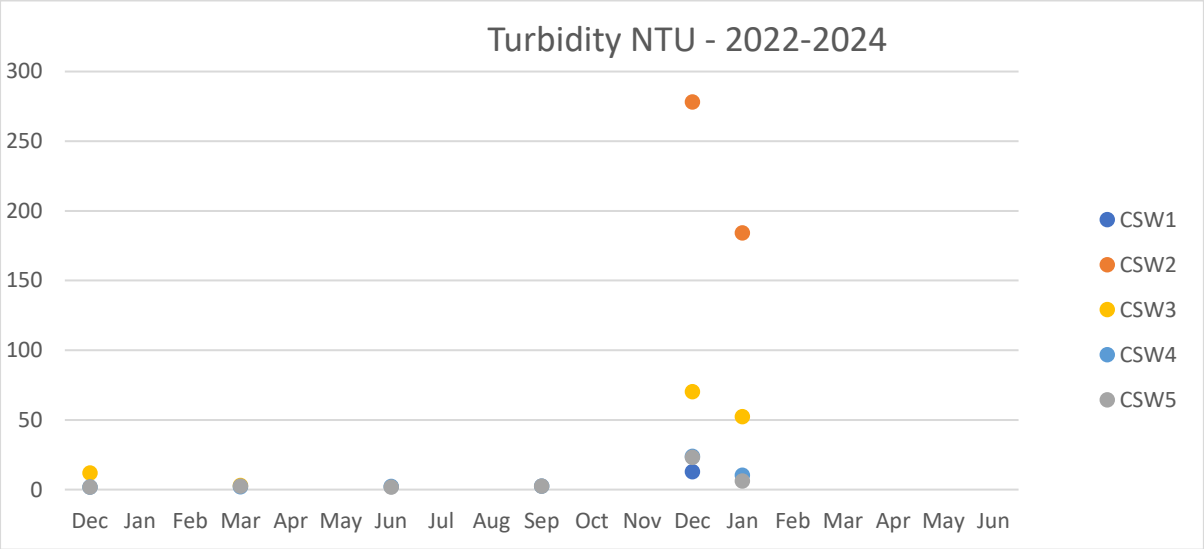


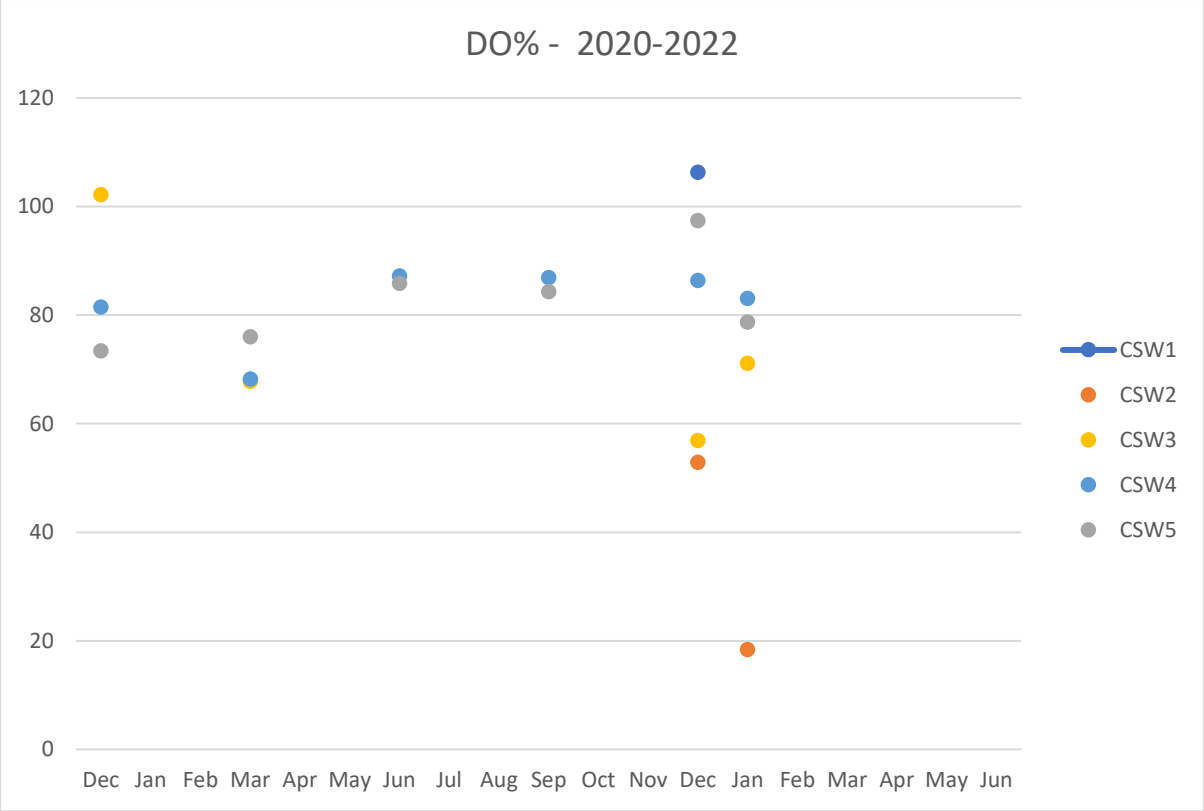
Figure 4-1 Construction surface water quality monitoring locations

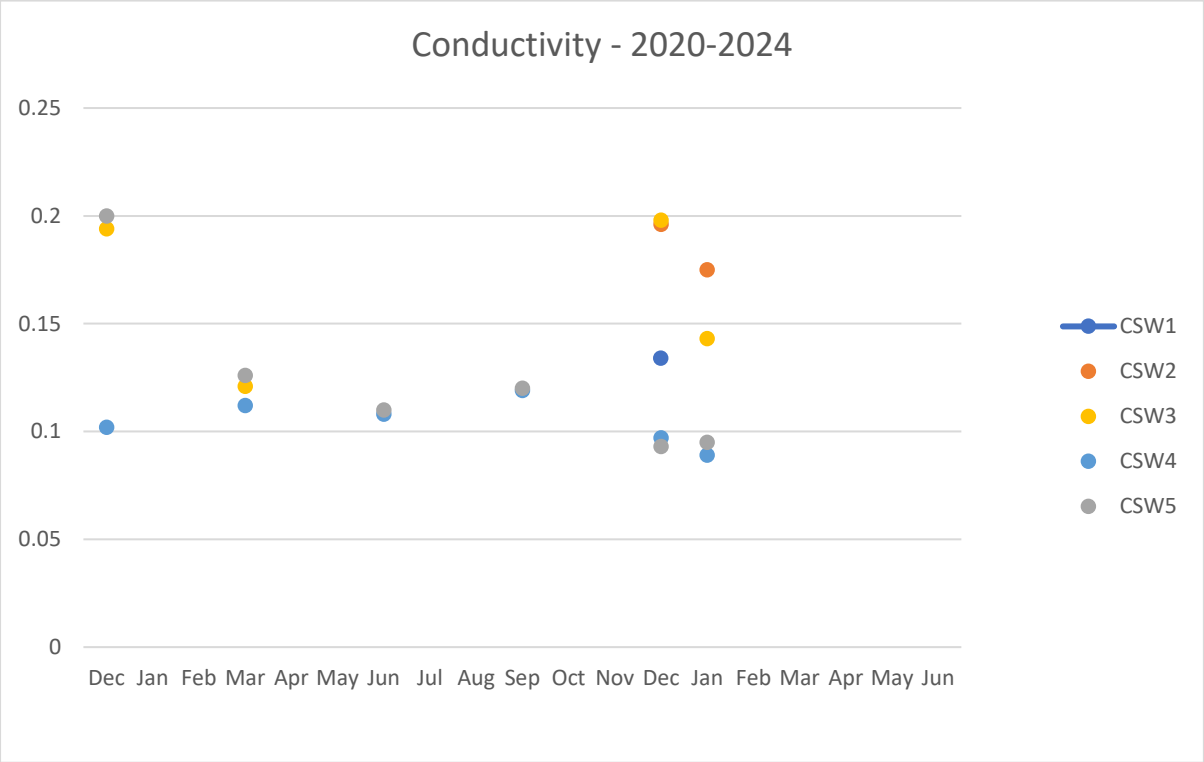
Note: During dry weather conditions some sites may be dry and therefore no sampling results are available

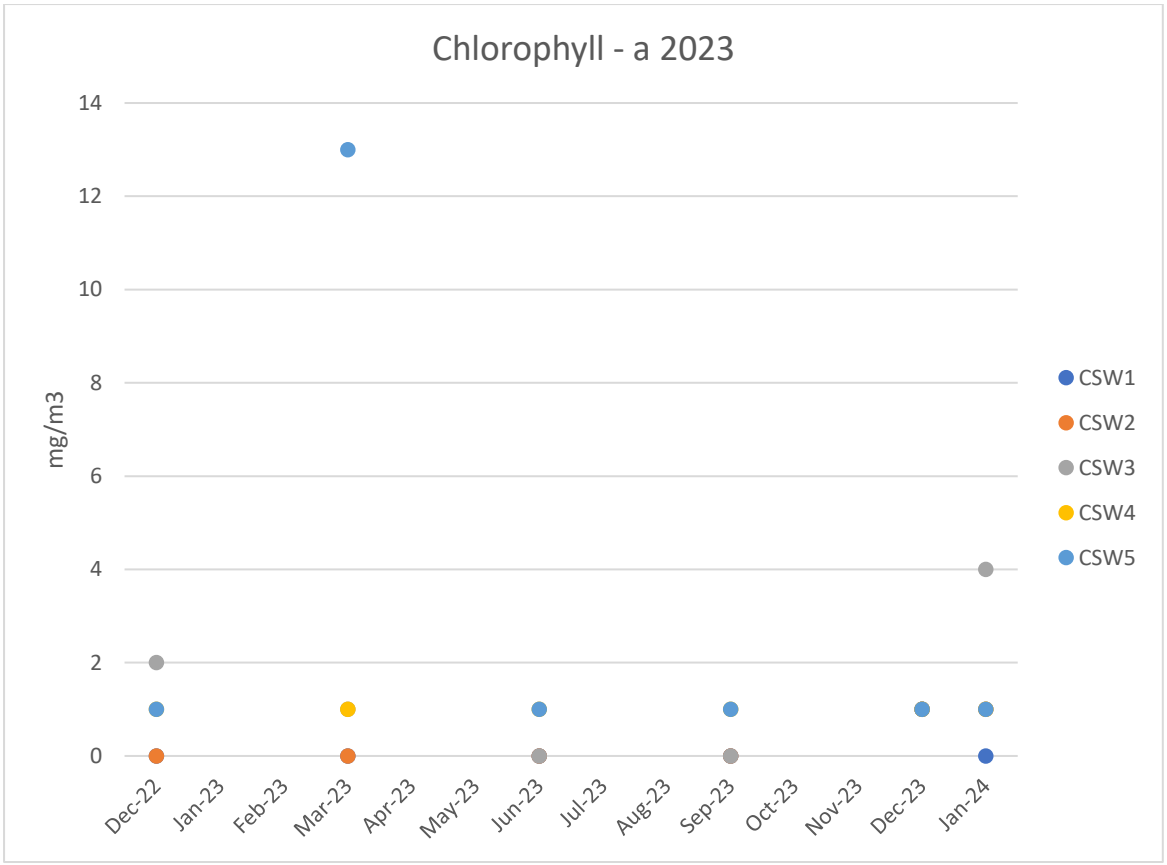


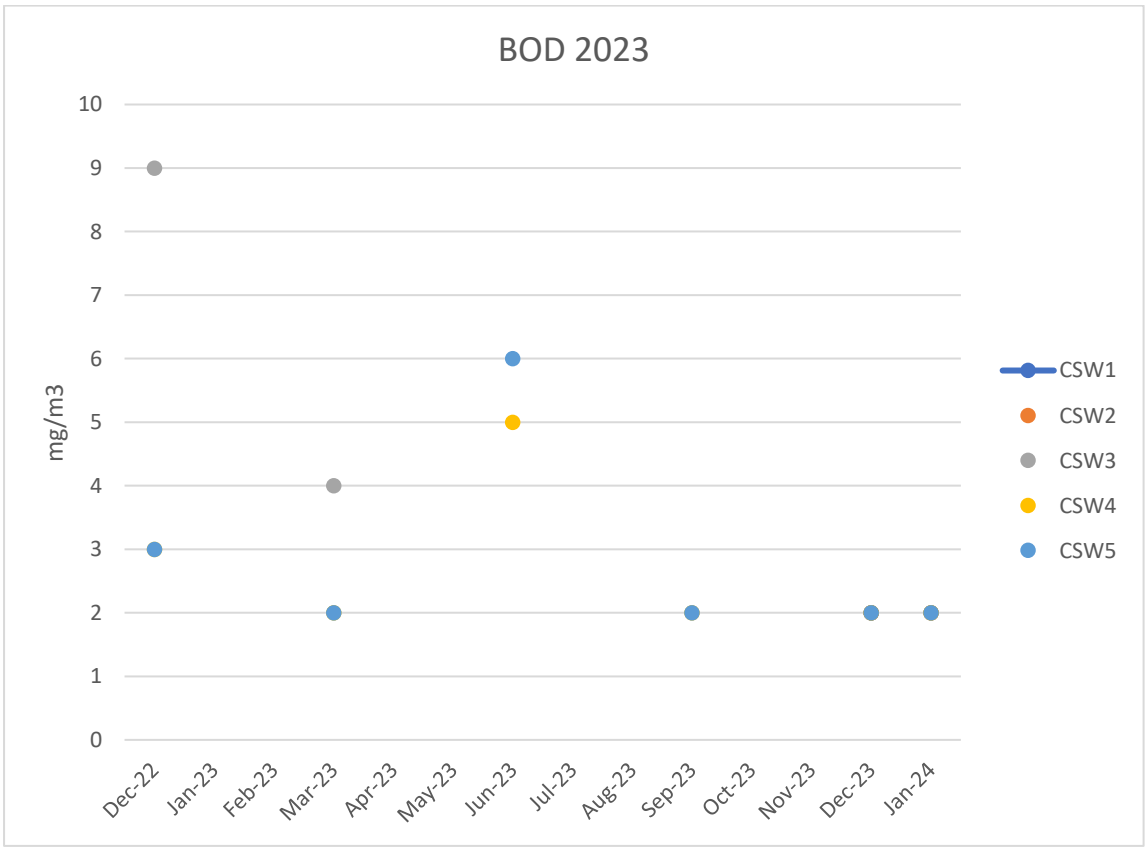

pH - 2022-2024
9
8.5
8
7.5
7
6.5
6
5.5
5
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
CSW1
CSW2
CSW3
CSW4
CSW5

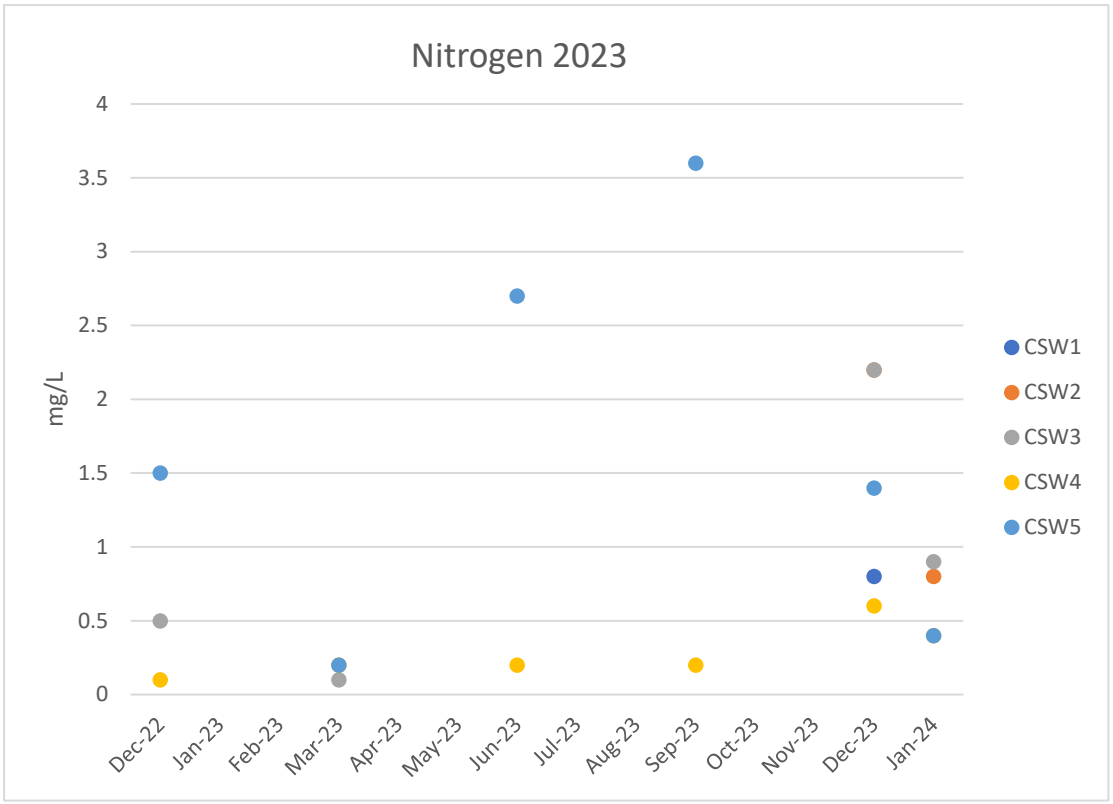

Turbidity NTU - 2022-2024
300
250
200
150
100
50
0
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
CSW1
CSW2
CSW3
CSW4
CSW5

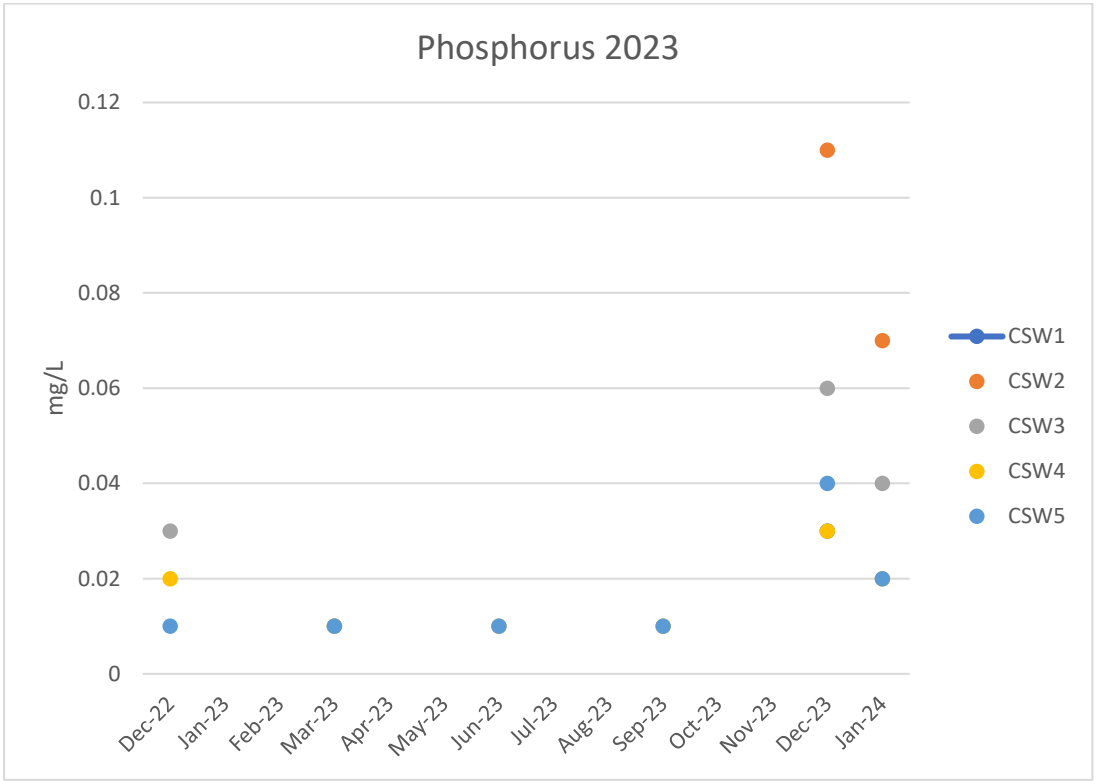

DO% - 2020-2022
120
100
80
60
40
20
0
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
CSW1
CSW2
CSW3
CSW4
CSW5

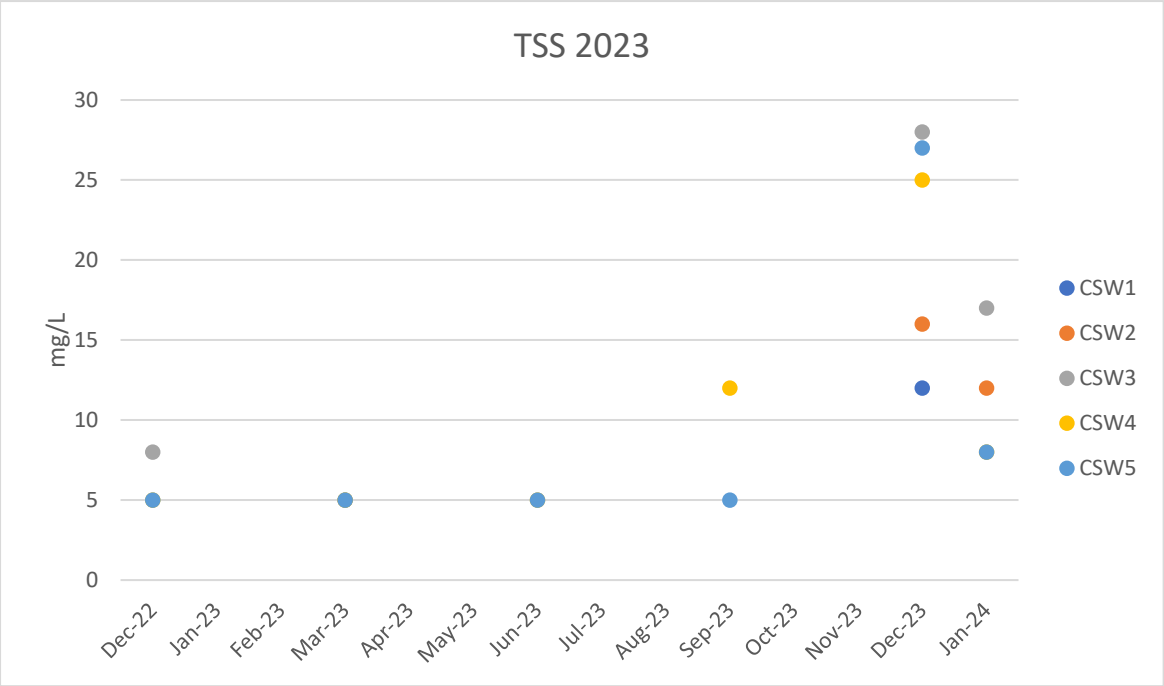

Conductivity - 2020-2024
0.25
0.2
0.15
0.1
0.05
0
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
CSW1
CSW2
CSW3
CSW4
CSW5

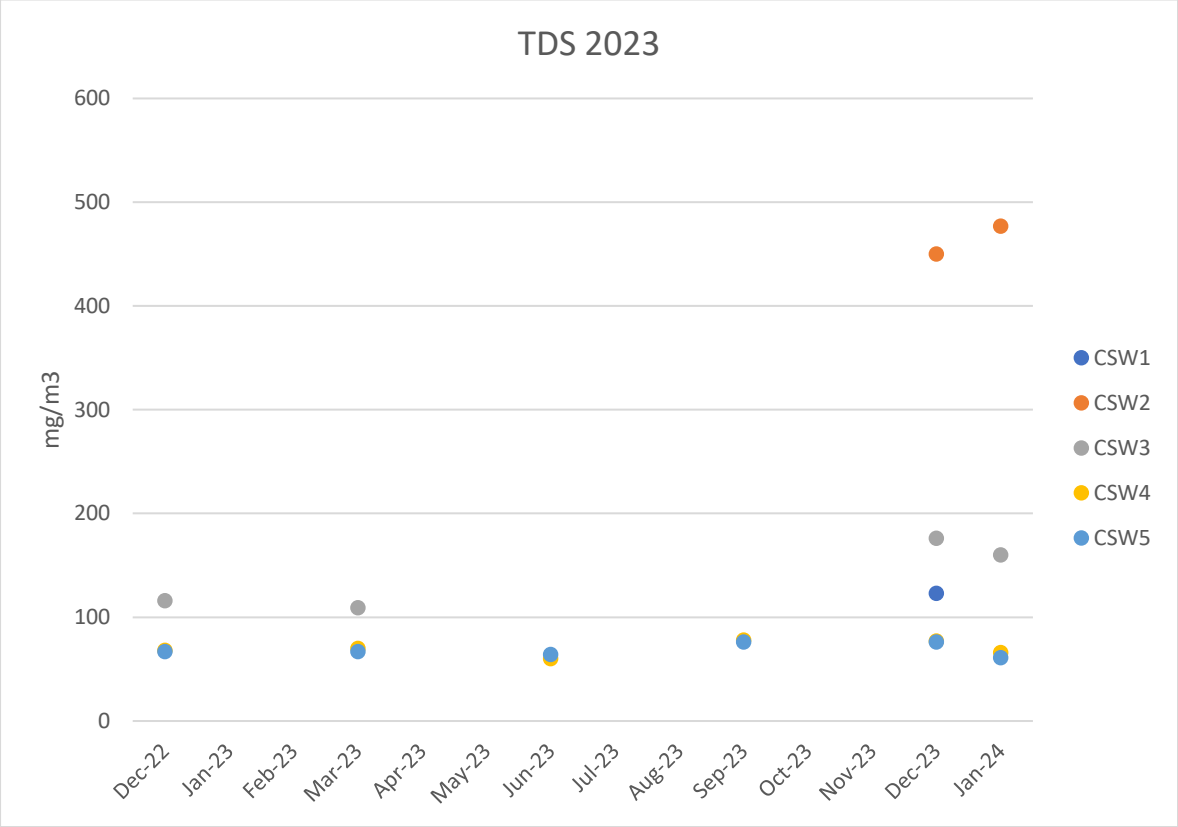

Chlorophyll - a 2023
mg/m3
14
12
10
8
6
4
2
0
Dec-22
Jan-23
Feb-23
Mar-23
Apr-23
May-23
Jun-23
Jul-23
Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
CSW1
CSW2
CSW3
CSW4
CSW5


BOD 2023
mg/m3
10
9
8
7
6
5
4
3
2
1
0
Dec-22
Jan-23
Feb-23
Mar-23
Apr-23
May-23
Jun-23
Jul-23
Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
CSW1
CSW2
CSW3
CSW4
CSW5


Nitrogen 2023
mg/L
4
3.5
3
2.5
2
1.5
1
0.5
0
Dec-22
Jan-23
Feb-23
Mar-23
Apr-23
May-23
Jun-23
Jul-23
Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
CSW1
CSW2
CSW3
CSW4
CSW5

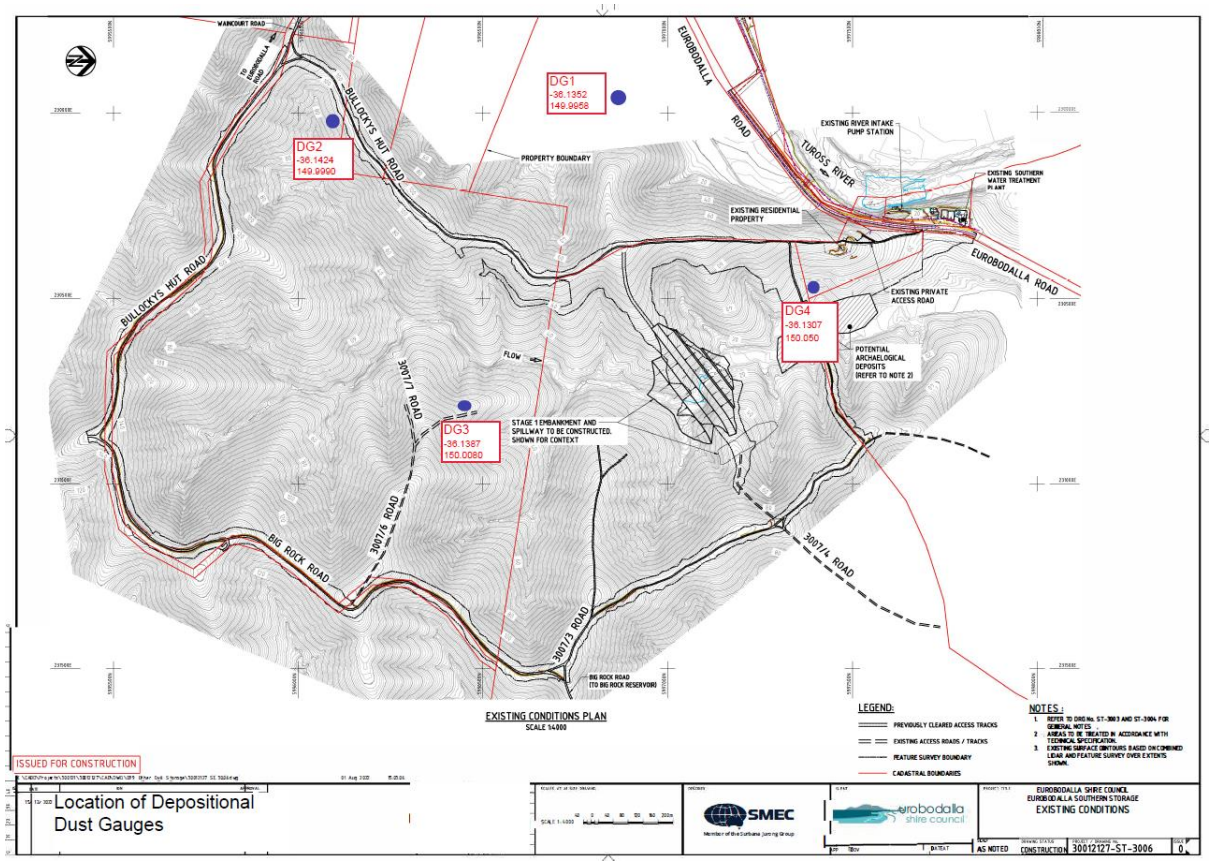

Phosphorus 2023
mg/L
0.12
0.1
0.08
0.06
0.04
0.02
0
Dec-22
Jan-23
Feb-23
Mar-23
Apr-23
May-23
Jun-23
Jul-23
Aug-23
Sep-23
Oct-23
Nov-23
Dec-23
Jan-24
CSW1
CSW2
CSW3
CSW4
CSW5

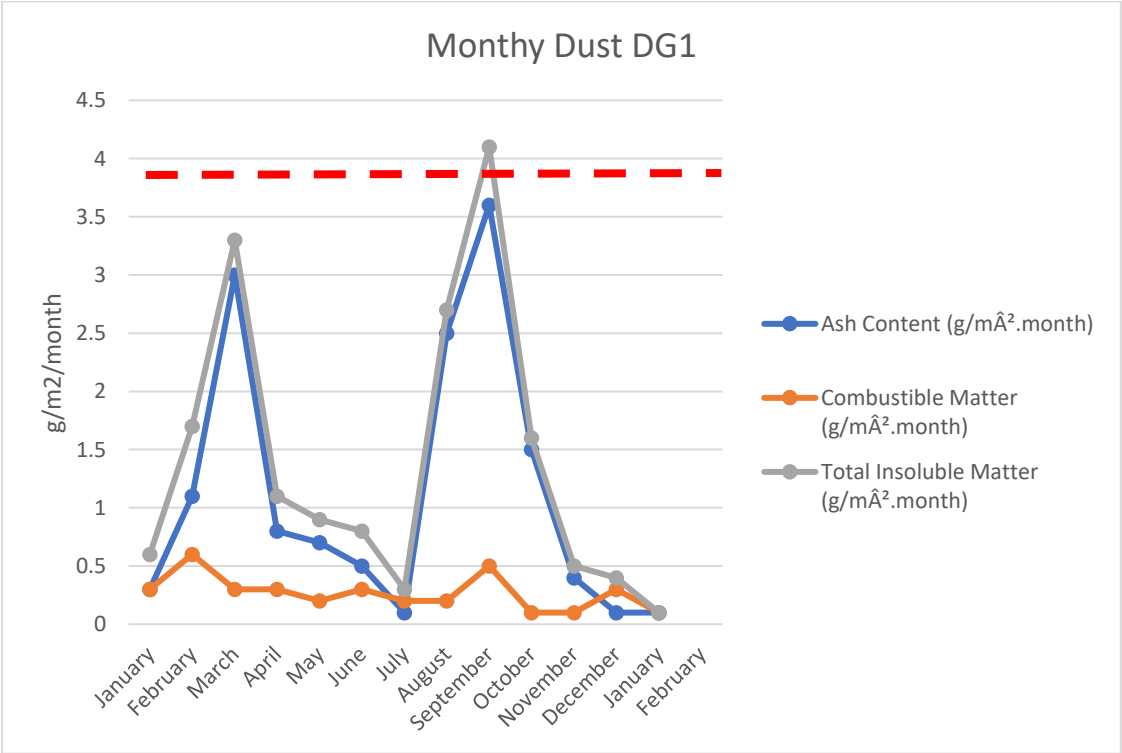


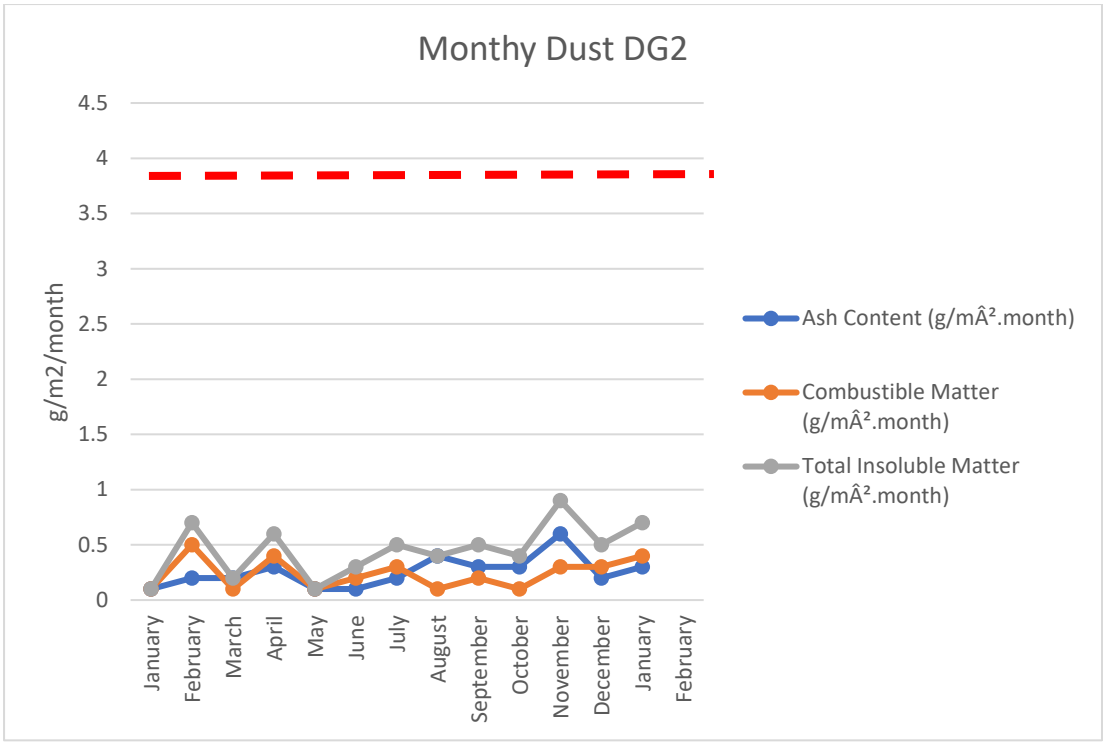


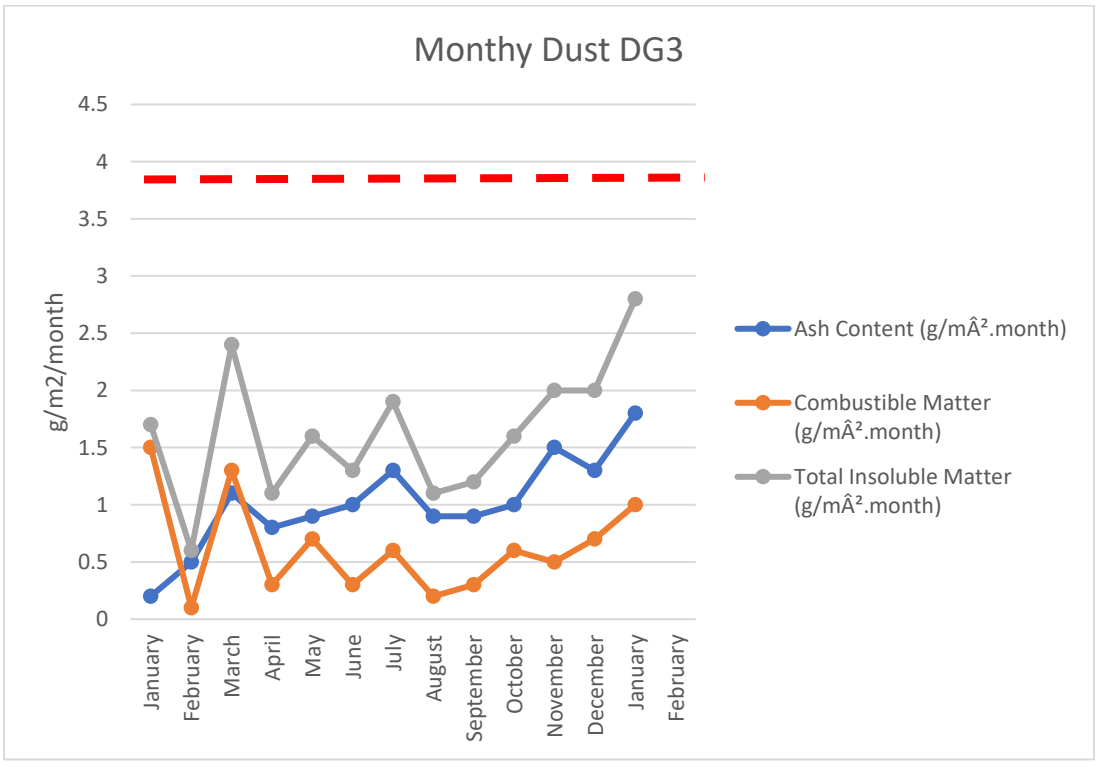
Eurobodalla Southern Water Supply Storage – Air Quality Monitoring

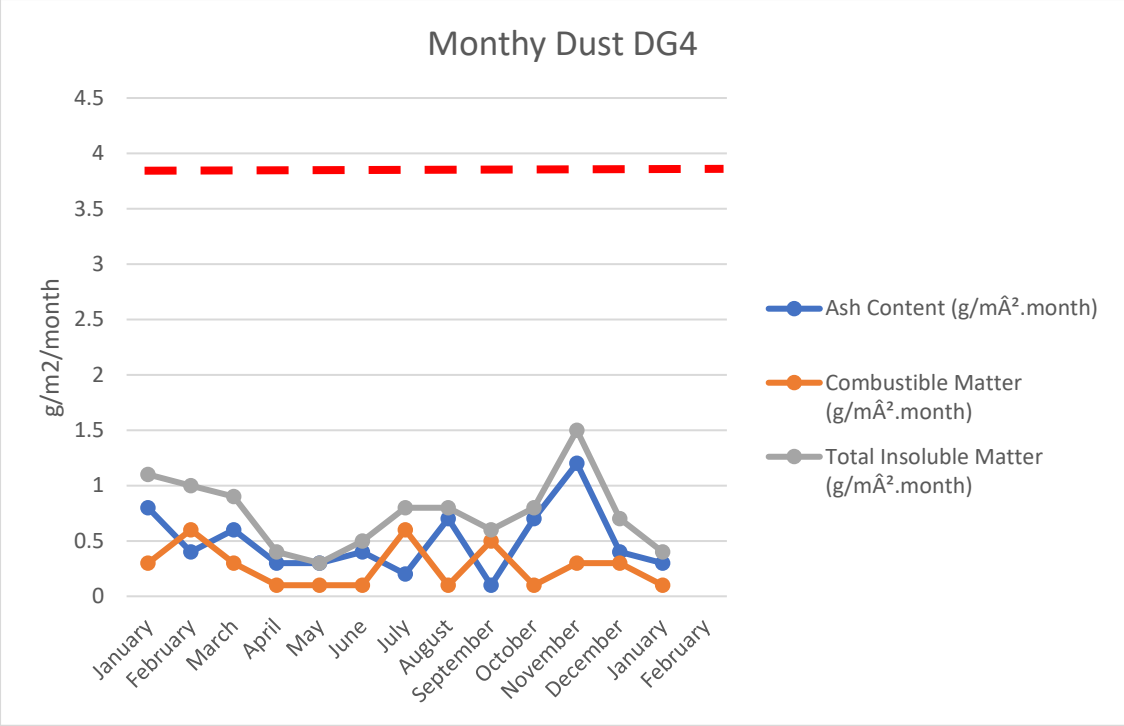
Data from the gauges is collected monthly for the duration of the project. An exceedance occurs when the maximum total deposited level (average) exceeds 4 g/m2/month.


DG1
-36.1352
149.9958
DG2
-36.1424
149.9990
DG3
-36.1387
150.0080
DG4
-36.1307
150.050
EUROBODALLA ROAD
BULLOCKYS HUT ROAD
PROPERTY BOUNDARY
EXISTING RIVER INTAKE PUMP STATION
TUROSS RIVER
EXISTING SOUTHERN WATER TREATMENT PLANT
EXISTING RESIDENTIAL PROPERTY
EXISTING PRIVATE ACCESS ROAD
POTENTIAL ARCHAEOLOGICAL DEPOSITS (REFER TO NOTE 2)
FLOW
STAGE 1 EMBANKMENT AND SPILLWAY TO BE CONSTRUCTED, SHOWN FOR CONTEXT
3007/1 ROAD
3007/5 ROAD
3007/4 ROAD
3007/3 ROAD
BIG ROCK ROAD
BIG ROCK ROAD (TO BIG ROCK RESERVOIR)
EXISTING CONDITIONS PLAN
SCALE 1:4000
LEGEND:
PREVIOUSLY CLEARED ACCESS TRACKS
EXISTING ACCESS ROADS / TRACKS
FEATURE SURVEY BOUNDARY
CADASTRAL BOUNDARIES
NOTES :
ISSUED FOR CONSTRUCTION
Location of Depositional Dust Gauges
SMEC
EUROBODALLA SHIRE COUNCIL
EUROBODALLA SOUTHERN STORAGE
EXISTING CONDITIONS
AS NOTED
CONSTRUCTION
30012127-ST-3006


Monthy Dust DG1
g/m2/month
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
January
February
March
April
May
June
July
August
September
October
November
December
January
February
Ash Content (g/mÂ².month)
Combustible Matter (g/mÂ².month)
Total Insoluble Matter (g/mÂ².month)


Monthy Dust DG2
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
g/m2/month
January
February
March
April
May
June
July
August
September
October
November
December
January
February
Ash Content (g/mÂ².month)
Combustible Matter (g/mÂ².month)
Total Insoluble Matter (g/mÂ².month)


Monthy Dust DG3
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
g/m2/month
January
February
March
April
May
June
July
August
September
October
November
December
January
February
Ash Content (g/mÂ².month)
Combustible Matter (g/mÂ².month)
Total Insoluble Matter (g/mÂ².month)



Eurobodalla Southern Water Supply Storage - Noise Monitoring			
Date	**Site ID**	**Time**	**LAeq**
20/03/2023	R2	11:36	39.1
20/03/2023	R3	12:26	39.6
20/03/2023	R14	15:45	38.4
27/04/2023	R2	16:23	41
27/04/2023	R3	12:28	46.1
28/04/2023	R14	15:11	38.3
31/05/2023	R2	15:43	32.8
18/05/2023	R3	15:58	37.1
31/05/2023	R14	16:14	42.8
16/06/2023	R2	12:16	33.1
16/06/2023	R3	11:46	39.5
	R14		
12/07/2023	R2	13:15	40.8
13/07/2023	R3	11:21	35.6
13/07/2023	R14	8:57	43.9
23/08/2023	R2	15:20	37.8
23/08/2023	R3	15:52	36.7
23/08/2023	R14	13:27	35
6/09/2023	R2	8:16	39.7
7/09/2023	R3	9:24	39.2
6/09/2023	R14	9:20	36
11/10/2023	R2	9:13	37

11/10/2023	R3	8:39	36.5
12/10/2023	R14	8:45	41.7
23/11/2023	R2	11:40	47.4
23/11/2023	R3	9:16	36.7
23/11/2023	R14	8:05	44.2
24/01/2024	R2	15:12	41
24/01/2024	R3	9:12	44.9
24/01/2024	R14	13:05	41