

POLLUTION MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259

Location of Pollution Monitoring Point: Composite sampling point prior

EPL No. 2647 - Toukley Sewage Treatment System Licence Period: 1 January 2024 - 31 December 2024

to outlet to sand dune disposal area Publishing Date: 23 April 2024

COMPLIANCE STATUS

Results obtained for licence period are within annual cor	ncentration limits.									
	Biochemical Oxygen Demand (BOD) (mg/L)	Oil and Grease (O&G) (mg/L)	рН	Total Suspended Solids (TSS) (mg/L)	Ammonia (mg/L)					
License Concentration Limits										
50 percentile	-	-	-	-	-					
90 percentile	-	10	-	50	-					
3DGM	-	15	-	60	-					
100 percentile	-	-	6.5 - 8.5	-	-					
Pollution Monitoring Data Summary(provided at the end of annual reporting period)										
50 percentile	-	-	-	-	-					
90 percentile	-	-	-	-	-					
3DGM	-	-	-	-	-					

100 percentile			-	-		-	-
Collected	Obtained	Published	BOD (mg/L)	O&G (mg/L)	pН	TSS (mg/L)	Ammonia
09/01/2024	19/01/2024	24/01/2024	9	<5	7.8	18	16.4
22/01/2024	10/02/2024	15/02/2024	11	<5	7.6	28	11.0
02/02/2024	14/02/2024	19/02/2024	7	<5	7.6	18	18.5
14/02/2024	26/02/2024	04/03/2024	10	<5	7.6	10	22.6
26/02/2024	12/03/2024	17/04/2024	6	<5	7.5	6	17.4
09/03/2024	25/03/2024	30/03/2024	9	<5	7.5	10	19.6
21/03/2024	03/04/2024	08/04/2024	8	<5	7.5	8	23.0
02/04/2024	11/04/2024	16/04/2024	9	<5	7.5	8	22.4

< : Where this symbol is shown, the result is below the limit at which the parameter can be accurately detected and reported. n/a means not available.

Where results are below the laboratory detection limits (e.g. <2) half the value of the detection limit will be used for calculation purposes when all required data has been obtained. Where 50% or more of the sample results for a particular pollutant are below the detection limit, zero will be used for calculation purposes. This methodology is consistent with that outlined in the EPA's Load Calculation Protocol (June 2009) and will be applied when all required data for the licence period has been obtained.



FAECAL COLIFORM & ENTEROCOCCI MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259

Location of Pollution Monitoring Point:

Cabbage Tree Bay (Lic Pt 13) and Soldiers Beach (Lic Pt 14)

EPL No. 2647 - Toukley Sewage Treatment System Licence Period: 1 January 2024 - 31 December

2024

Publishing Date: 23 April 2024

COMPLIANCE STATUS

The licence does not prescribe concentration limits for faecal coliforms and enterococci

	1		Cabbage T			Soldiers Beach			
Collected	Obtained	Published	Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)	Faecal coliforms (cfu/100 mL)	Enterococci (mpn/100 mL)			
4 January 2024	9 January 2024	15 January 2024	18	~3	2	~1			
9 January 2024	15 January 2024	20 January 2024	380	300	390	65			
16 January 2024	22 January 2024	27 January 2024	17	~6	45	36			
23 January 2024	29 January 2024	4 February 2024	410	83	~65	13			
30 January 2024	2 February 2024	7 February 2024	10	~8	47	~3			
6 February 2024	10 February 2024	15 February 2024	34	~8	1	~1			
08 February 2024	12 February 2024	17 February 2024	390	39	7	~3			
13 February 2024	19 February 2024	24 February 2024	4	~4	33	<1			
20 February 2024	4 March 2024	9 March 2024	~140	30	~49	320			
27 February 2024	4 March 2024	9 March 2024	~12	~9	3	~1			
5 March 2024	12 March 2024	17 March 2024	~85	34	5	~5			
12 March 2024	18 March 2024	23 March 2024	16	~2	~91	~9			
19 March 2024	25 March 2024	30 March 2024	10	3	7	3			
				+					
21 March 2024	26 March 2024	1 April 2024	48	13	260	170			
26 March 2024	2 April 2024	7 April 2024	<1	~1	5	<5			
2 April 2024	8 April 2024	15 April 2024	3	~2	32	~2			
9 April 2024	12 April 2024	17 April 2024	270	~10	9	~1			
16 April 2024	22 April 2024	29 April 2024	6	~3	3	<1			
_									
			1	1		1			

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Where results are below the laboratory detection limits (e.g. <2) half the value of the detection limit will be used for calculation purposes when all required data has been obtained. Where 50% or more of the sample results for a particular pollutant are below the detection limit, zero will be used for calculation purposes. This methodology is consistent with that outlined in the EPA's Load Calculation Protocol (June 2009) and will be applied when all required data for the licence period has been obtained.



POLLUTION MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259

EPL No. 2647 - Toukley Sewage Treatment System

Location of Pollution Monitoring Point: Composite sampling point prior to outlet to sand dune disposal area

Licence Period: 1 January 2024 - 31 December 2024

Publishing Date: 23 April 2024

COMPLIANCE STATUS

Licence Monitoring Frequency for below pollutant is twice per year. The licence does not prescribe concentration limits for these pollutants.

			Aldrin	Arsenic	Cadmium	Chlordane (cis & trans)	Chromium	Copper	Dieldrin	Endosulfan	Endrin	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Lead	Mercury	Methoxychlor	Nickel	Selenium	Silver	Zinc	alpha-BHC	peta-BHC	gamma-BHC (lindane)	OOO-d'd	p,p-DDE	p,p-DDT	PCBs
Unit			μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
No. Samples Collected			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Minimum valu	ue																											
Mean value																												
Median value																												
Maximum val	ue																											
Limit of labor	atory detecti	ion	0.01	0.1	0.1	0.01	0.2	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.1	0.3	0.01	0.1	0.2	0.1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.1
										PO	LLUTIO	N MONI	TORING	DATA	RESU	LTS												
Collected	Obtained	Published											1					1						1				
22/01/2024	02/02/2024	15/02/2024	<0.01	0.7	<0.1	<0.01	0.7	5.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.3	<0.01	1.6	<0.2	0.1	19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
02/04/2024	11/04/2024	16/04/2024	<0.01	0.6	<0.1	<0.01	0.3	3.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.3	<0.01	1.7	0.3	0.3	14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
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<: Where this symbol is shown, the result is below the level at which the parameter can be routinely tested and reported. n/a means not available.

Where results are below the laboratory detection limits (e.g. <2) half the value of the detection limit will be used for calculation purposes when all required data has been obtained. Where 50% or more of the sample results for a particular pollutant are below the detection limit, zero will be used for calculation purposes. This methodology is consistent with that outlined in the EPA's Load Calculation Protocol (June 2009) and will be applied when all required data for the licence period has been obtained.



FLOW MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259
Location of Pollution Monitoring Point Calculated from a number flow meter monitoring points as specified in EPL 2647 **EPL No. 2647** – Toukley Sewage Treatment System **Licence Period:** 1 January 2024 – 31 December 2024

Publishing Date: 23 April 2024

COMPLIANCE STATUS

Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 60,000 kilolitres/day

Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow
1/01/2024	25,886	1/02/2024	23,512	1/03/2024	27,109	1/04/2024	21,096		(KL)		(KL)		(KL)		(kL)
2/01/2024	27,462	2/02/2024	22,949	2/03/2024	27,109	1/04/2024 2/04/2024	24,040						+		
3/01/2024	23,677	3/02/2024	22,949	3/03/2024	23,016	3/04/2024	26,487						+		
4/01/2024	13,353	4/02/2024	21,664	4/03/2024	29,433		43,353								
5/01/2024	8,392	5/02/2024	15,741	5/03/2024	28,062	4/04/2024	57,228								
6/01/2024	21,885			6/03/2024	19,453	5/04/2024	65,244						+		
7/01/2024	23,496	6/02/2024	15,349	7/03/2024	20,235	6/04/2024	46,136								
8/01/2024	25,147	7/02/2024	15,675	8/03/2024	23,402	7/04/2024	43,218								
9/01/2024	29,411	8/02/2024	20,231 24,497	9/03/2024	24,012	8/04/2024	42,808								
10/01/2024	21,050	9/02/2024 10/02/2024	24,497	10/03/2024	23,470	9/04/2024 10/04/2024	40,088						-		
11/01/2024	12,262	11/02/2024	23,370	11/03/2024	25,419		,						+		
12/01/2024	24,936		23,022	12/03/2024	26,633	11/04/2024	35,717								
13/01/2024	35,744	12/02/2024 13/02/2024	22,843	13/03/2024	27,622	12/04/2024	41,376 41,321								
14/01/2024	37,759		23,491	14/03/2024	25,400	13/04/2024	,						+		
15/01/2024	29,779	14/02/2024 15/02/2024	26,140	15/03/2024	-	14/04/2024	38,848 37,209								
16/01/2024	19,547		43,782	16/03/2024	26,750	15/04/2024	,						+		
17/01/2024	29,877	16/02/2024	29,628	17/03/2024	26,160	16/04/2024	37,905								
18/01/2024	32,036	17/02/2024	31,810		24,390	17/04/2024	40,349								
19/01/2024	31,858	18/02/2024	,	18/03/2024 19/03/2024	23,736	18/04/2024	32,466								
20/01/2024	30,848	19/02/2024	32,202 37,764	20/03/2024	24,960	19/04/2024	39,301								
	,	20/02/2024	,		23,758	20/04/2024	73,342						-		-
21/01/2024 22/01/2024	28,588	21/02/2024	38,135 33,282	21/03/2024 22/03/2024	23,702 21,725	21/04/2024	61,793								
	12,938	22/02/2024		23/03/2024	23,645	22/04/2024							-		-
23/01/2024 24/01/2024	18,118 24,214	23/02/2024	31,700	24/03/2024	23,758	23/04/2024									
	25,763	24/02/2024	31,642	25/03/2024	,	24/04/2024									
25/01/2024		25/02/2024	30,310		22,130	25/04/2024									
26/01/2024	25,029	26/02/2024	29,734	26/03/2024	22,127	26/04/2024			+				1		
27/01/2024	25,266	27/02/2024	30,435	27/03/2024	23,362	27/04/2024					1		1		\vdash
28/01/2024	25,875	28/02/2024	31,567	28/03/2024	23,355	28/04/2024					1		1		\vdash
29/01/2024	23,875	29/02/2024	28,904	29/03/2024	21,387	29/04/2024							1		
30/01/2024	24,015			30/03/2024	22,203	30/04/2024							1		_
31/01/2024	23,584			31/03/2024	23,019										



FLOW MONITORING DATA

Licensee: Central Coast Council, PO Box 20 Wyong NSW 2259
Location of Monitoring Point: Calculated from a number flow meter monitoring points as specified in EPL 2647 **EPL No. 2647** – Toukley Sewage Treatment System **Licence Period:** 1 January 2024 – 31 December 2024

Publishing Date: 23 April 2024
COMPLIANCE STATUS

Licence N	Licence Monitoring Frequency for flow is daily. The licence prescribes a limit of 60,000 kilolitres/day														
Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)	Date	Flow (kL)
															1
															-
															-

Central	
Coast	
Council	,

EPL No 2647 - S	EPL No 2647 - Summary of non-compliant data											
Date	Parameter	Result	Cause	Action taken								
5 April 2024	Flow (greater than 60,000 kL)	65,244 kL	Stormwater inflow	Management of inflow from STP catchment								
20 April 2024	Flow (greater than 60,000 kL)	73,342 kL	Stormwater inflow	Management of inflow from STP catchment								
21 April 2024	Flow (greater than 60,000 kL)	61,793 kL	Stormwater inflow	Management of inflow from STP catchment								