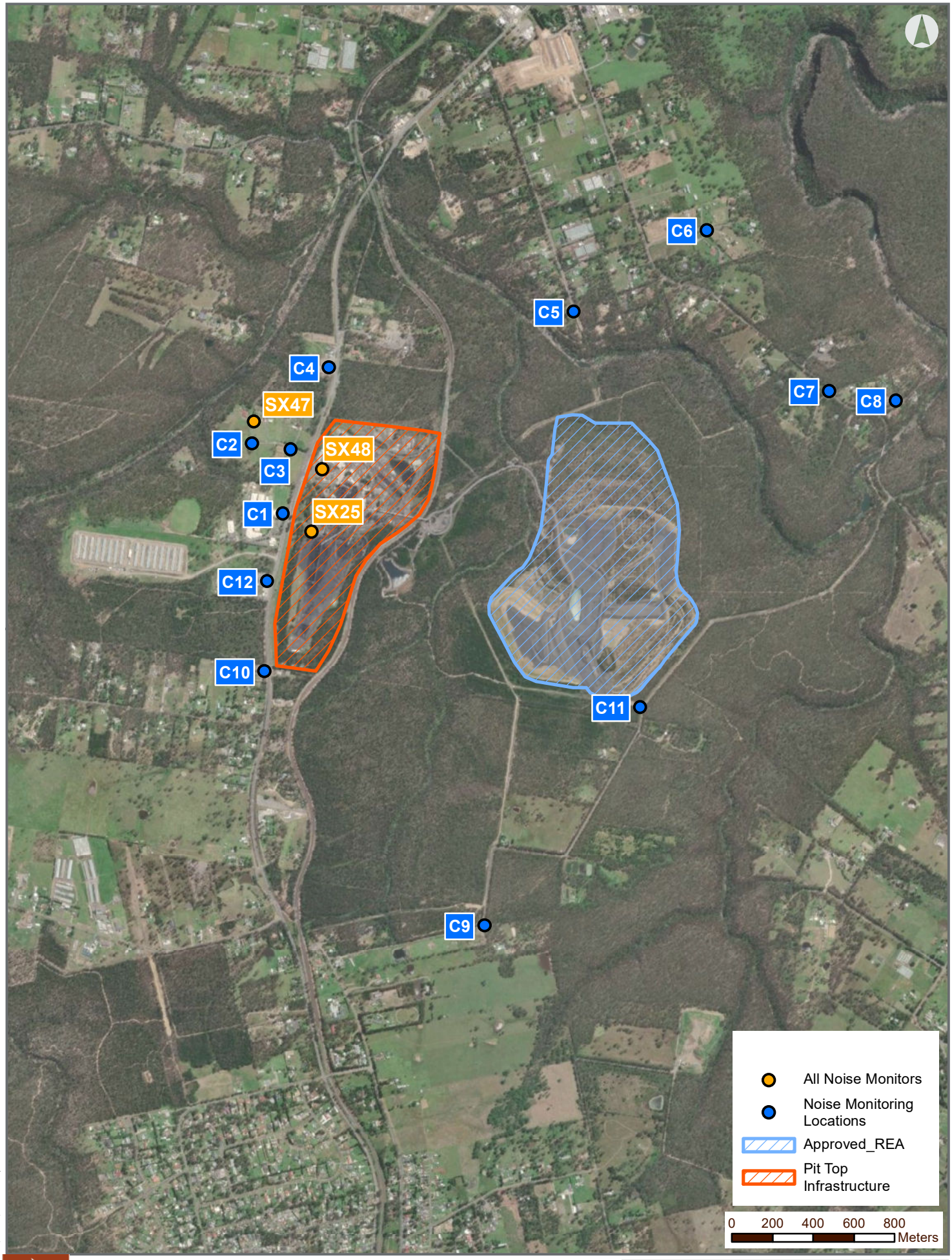
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Tahmoor South
Noise Monitoring Locations

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Date: 27/02/2024

Data Sources:
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Year	Site	EIS Site Name	Assessment Goal L10	Estimated contribution Q1 (L10)	Estimated contribution Q2 (L10)	Estimated contribution Q3 (L10)	Estimated contribution Q4 (L10)	Description	Residential Property
2014	M1	C12		<45/6	<48	<48	<48	Remembrance Driveway (Service Station)	No
2015				<52	<50	<46	54/5		
2016				<50	<50	<55	<45		
2017				53/4	50/1	54/5	53/4		
2018				48/9	50/1	<45	<45		
2019				<49	<52	<56	<45		
2020				<48	<46	<46	<44		
2021				<47	<56	<47	<58***		
2022				<50***	<50***	<50**	<50**		
2023				<49***	<49***	<56***	50/1***		
2014	M2	C1		46/7	47	<60	47	Remembrance Driveway (School Entrance Road)	No
2015				<53	<54	<47	55/6		
2016				<50	<50	<50	<46		
2017				53/4	55/7	56/7	53/3		
2018				48/9	50/1	<45	<46		
2019				<53	<56	<56	<48		
2020				<48	<46	<48	<45		
2021				<49	<56	<48	<60***		
2022				<52***	<53***	<50***	<50***		
2023				<50***	<52***	<57***	52/3***		
2014	M3	C2	45	<44	<47	<45	<42	Olive Lane (End of Cul-de-sac)	Yes
2015				<48**	<47	<42	44/5		
2016				44/5	<40	<45	<45*		
2017				<45**	<47**	<47	<45*		
2018				<47***	<47**	<44	<47***		
2019				<46***	<47***	<42**	<44		
2020				<46***	<44**	<46**	<45**		
2021				<45**	<45**	<45**	<51***		
2022				<47***	<50***	<45***	<44***		
2023				<44**	<44**	<52**	43/4**		
2014	M4	C3		<45	<49	<47	<45	Olive Lane/Remembrance Driveway Intersection	No
2015				<48	<53	<47	47/8		
2016				<45	<40	<45	<46		
2017				<48	<50	<50	<50		
2018				<45	<50	<50	<48		
2019				<50	<46	<46	<50		
2020				<48	<47	<47	<46		
2021				<50	<52	<50	<60***		
2022				<52***	<55***	<50***	<50***		
2023				<47**	<55***	<54**	51/3***		
2014	M5	C4	45	<40	<40	<47	<40	Remembrance Driveway (Service Station)	Yes
2015				<40	<46	<42	<42		
2016				<40	<40	<45	<45*		
2017				<45**	<45**	<45	<40		
2018				<35	<35	<45	<40		
2019				<43**	<45**	<40**	<40		
2020				<44**	<45**	<35	<40		
2021				<45**	<45**	<42**	<48***		
2022				<45**	<45**	<44**	<40**		
2023				<42**	<44**	<50**(35)	46/7**(<37)		
2014	M6	C5	45 (37)	<35 (<35)	<43 (<35)	<38 (<35)	<30	Stratford Road	Yes
2015				<30	40/1 (-)	40/1 (-)	39/40 (-)		
2016				<35 (<35)	<50	<55	<45		
2017				<40** (<35)	<40** (<35)	<40 (<35)	<40 (<35)		
2018				<35	<37	<40	<40**		
2019				<35**	<37**	<39**	<39		
2020				<35	<39	<35	<40		
2021				<44**(<35)	<42(<35)	<40 (<35)	<42** (<35)		
2022				<40**(<35)	<43**(<35)	<44***	<40 (<35)		
2023				<44***(<35)	<44(<35)	<44***(<35)	44/5** (<37)		
2014	M7	C6	45 (37)	<35	<35	<35	<30	Hodgson Grove (End of Cul-de-sac)	Yes
2015				<30	35/6(-)	<35	<30 (-)		
2016				<30 (-)	<30 (-)	<30 (-)	<35*(-)		
2017				<35**(<35)	<35**(<35)	<35**(<35)	<35**(<35)		
2018				<35	<35	<35	<35		
2019				<35	<35	<35	<35		
2020				<35	<35	<35	<35		
2021				<35(<35)	<35 (<35)	<35 (<35)	<42** (<35)		
2022				<40(<35)	<40(<35)	<40**	<40 (<35)		
2023				<40(<35)	<42** (<35)	<35(<35)	<37** (<35)		
2014	M8	C7	45 (37)	<35	<35	<35	<32	Rockford Road	Yes
2015				<33	32/3(-)	<34	<35 (-)		
2016				<33 (-)	<30 (-)	<30 (-)	<40* (<35)		
2017				<35**(<35)	<35**(<35)	<37**(<35)	<37**(<35)		
2018				<35	<35	<35	<40		
2019				<35	<35	<35	<35		
2020				<35	<35	<35	<37**		
2021				<37 (<35)	<35 (<35)	<35 (<35)	<42 (<35)		
2022				<40**(<35)	<40**(<35)	<40**	<42** (<35)		
2023				<38**(<35)	<42** (<35)	<36**(<35)	<38**(<35)		
2014	M9	C8	45 (37)	<35	<35	<35	<30	Kammer Place (End of Cul-de-sac)	Yes
2015				<30	<30 (-)	<30 (-)	<30 (-)		
2016				<30 (-)	<30 (-)	<30 (-)	<35* (<35)		
2017				<35* (<35)	<35* (<35)	<35* (<35)	<35* (<35)		
2018				<35	<35	<35	<35		
2019				<35	<35	<35	<35		
2020				<35	<35	<35	<35		
2021				<35 (<35)	<35 (<35)	<35 (<35)	<35 (<35)		
2022				<40**(<35)	<40 (<35)	<40**(<35)	<40 (<35)		
2023				<35 (<35)	<35 (<35)	<35 (<35)	<35 (<35)		
2014	M10	C11		<35 (<35)	<36 (<35)	<32 (<35)	<30	Charlies Point Road	No
2015				<30	<30	<6	<35		
2016				<30	<35	<35	<35		
2017				<45	<45	<35	<35		
2018				<35	<35	<35	<35		
2019				<35	<35	<35	<35		
2020				<35	<35	<30	<30		
2021				<35	<35	<35	<35		
2022				<35	<35	<35	<45***		
2023				<35	<35	<36	<35		
2023	M11			<35	<35	<40 (<35)	<35 (<35)	Charlies Point Rd Driveway Entrance	Yes
2023	M12			<44***	<40	<50***	<35	Remembrance Driveway (Garden Centre)	Yes

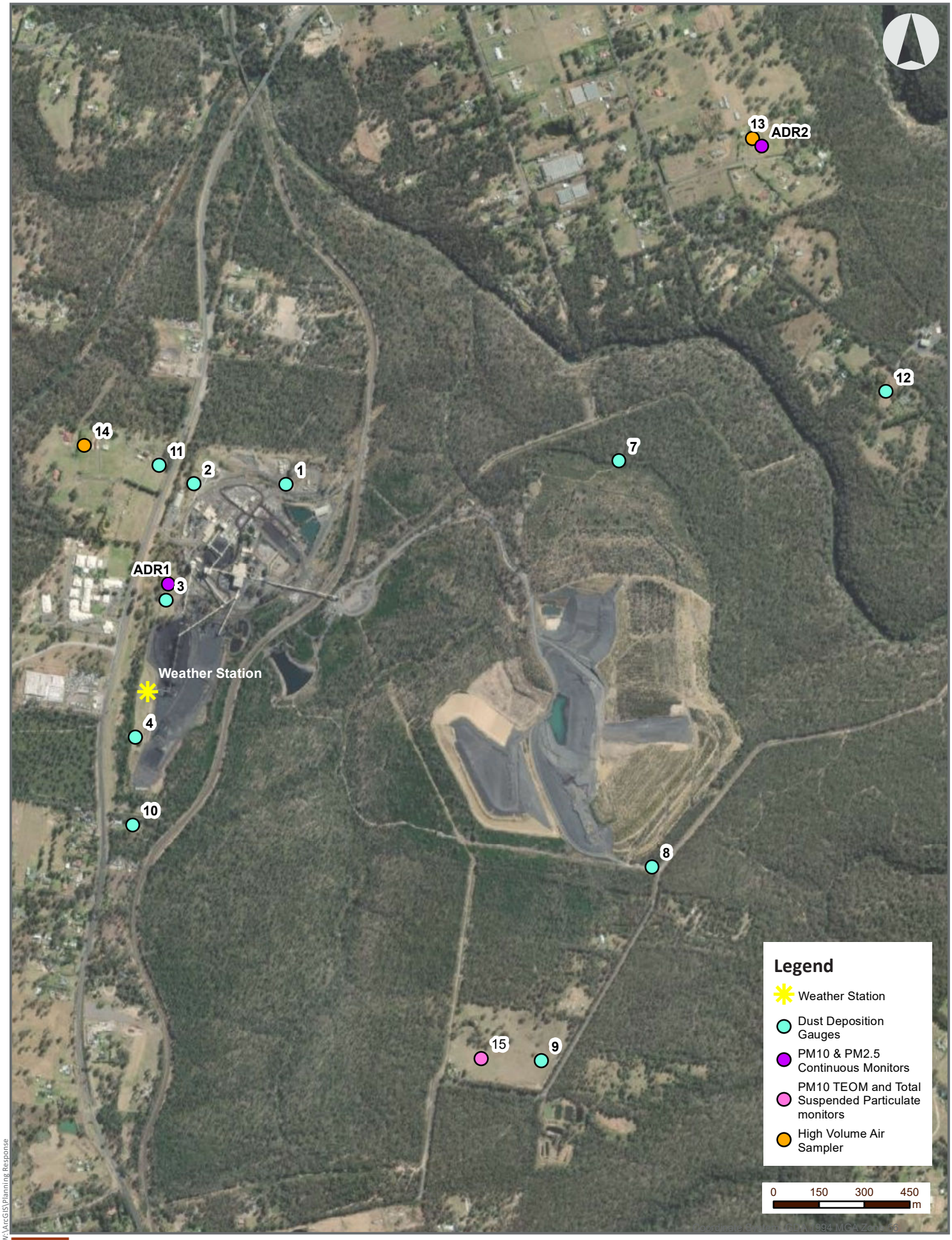
NOTES: # Ambient noise controlled by insects (2-5kHz)
* Includes DECC INP +2dB(A) allowance (INP Section 11.1.3)
** Includes +2dB correction for low frequency noise (NPfI Table C.1)
*** Includes +5dB correction for low frequency noise (NPfI Table C.1)
() Noise Assessment Goal for REA

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Tahmoor South
Air Quality Monitoring Locations

Date: 13/01/2023

Data Sources:
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Tahmoor Coal
EPL Discharge and Overflow Points

Date: 27/02/2024

Data Sources:
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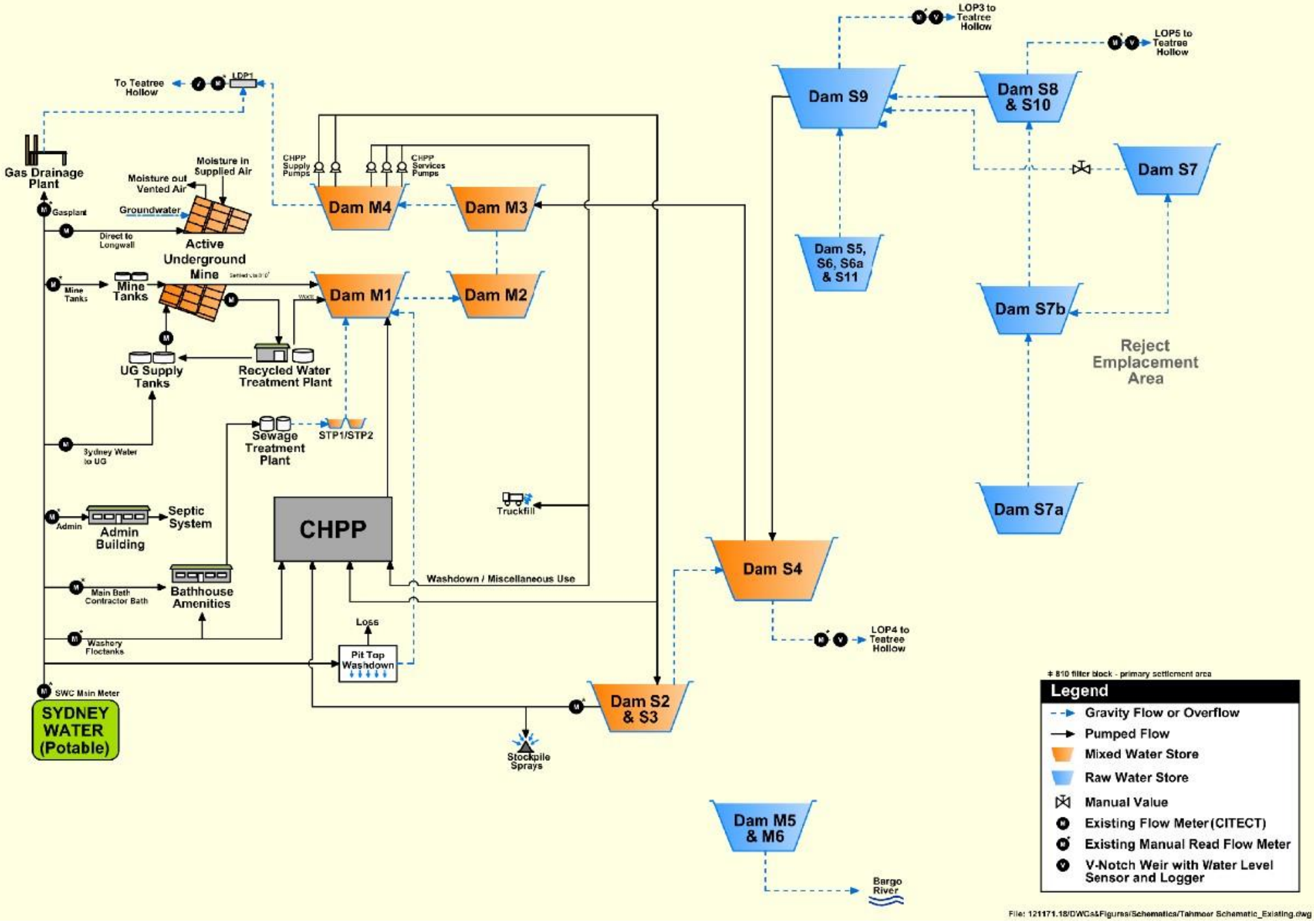
Estimated Water Volume				
Water Storage Name	**Beginning 2023**	**End 2023**	**Capacity**	**Comments**
M1	1.8ML	1.8ML	1.8ML	M series Dams act together to treat mine water pumped from Underground and stormwater, discharged via LDP1
M2	0.5ML	0.5ML	0.5ML	
M3	9.0ML	9.0ML	9.0ML	
M4	8.0ML	8.0ML	8.0ML	
M5	1.5ML	0.5ML	3.0ML	First settling Dam for No.2 Shaft Site area (stormwater)
M6	4ML	2ML	4.5ML	Second settling Dam for No.2 Shaft Site area (stormwater)
S1	0ML	0ML	14.5ML	The coking coal stockpile acts as a retention basin during major storms. Discharges to S2 Dam. Stockpile Dams are kept full and are used to supply water used for Dust suppression. Discharges to S4 Dam.
S2/S3	8.3ML	8.0ML	8.3ML	
S4	1.8ML	7ML	36.9ML	The Dam is designed to act as a retention basin with a controlled outlet. Discharges via overflow Point 4.
S5	0.3ML	0.3ML	0.5ML	Silt Trap only. Discharges to S6
S6	1ML	1ML	1.5ML	This Dam is designed to act as a retention basin with a controlled outlet.
S7	2ML	10ML	41.5ML	This is the main catchment for runoff from the REA. The dam is a retention basin during peak rainfall events. All water is pumped into Dam S4 via S9.
S7A	10ML	10ML	12.0ML	These Dams are designed to act as retention basins with a controlled outlet to S7 Dam.
S7B	0.8ML	0.2ML	1.0ML	
S8	2ML	1.5ML	4.5ML	Dam retains overflow from S7b. Pumps to Dam S9. Discharges via LOP5.
S9	0.2ML	0.15ML	0.4ML	Silt trap only for sealed Haul road. Wet werll pumps to Dam S4. Discharges via LOP3.
STP1	590KL	590KL	590KL	Treated effluent overflows to M1 Dam.
STP2	590KL	590KL	590KL	
Tank No.1	250KL	250KL	250KL	Underground potable water supply
Tank No.2	250KL	250KL	250KL	Underground potable water supply

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LOP3 to Teatree Hollow
LOP5 to Teatree Hollow
To Teatree Hollow
LDP1
Dam S9
Dam S8 & S10
Dam S7
Gas Drainage Plant
Moisture out Vented Air
Moisture in Supplied Air
Groundwater
Gasplant
Direct to Longwall
Active Underground Mine
CHPP Supply Pumps
CHPP Services Pumps
Dam M4
Dam M3
Dam S5, S6, S6a & S11
Mine Tanks
Mine Tanks
Dam M1
Dam M2
Dam S7b
Reject Emplacement Area
UG Supply Tanks
Recycled Water Treatment Plant
Sydney Water to UG
Sewage Treatment Plant
STP1/STP2
Dam S7a
Truckfill
CHPP
Admin
Admin Building
Septic System
Dam S4
Main Bath Contractor Bath
Bathhouse Amenities
Washdown / Miscellaneous Use
Loss
Washery Floctanks
Pit Top Washdown
LOP4 to Teatree Hollow
SWC Main Meter
SYDNEY WATER (Potable)
Dam S2 & S3
Stockpile Sprays
Dam M5 & M6
Bargo River
* 810 filter block - primary settlement area
Legend
Gravity Flow or Overflow
Pumped Flow
Mixed Water Store
Raw Water Store
Manual Value
Existing Flow Meter (CITECT)
Existing Manual Read Flow Meter
V-Notch Weir with Water Level Sensor and Logger
File: 121171.18/DWGs&Figures/Schematics/Tahmoor Schematic_Existing.dwg

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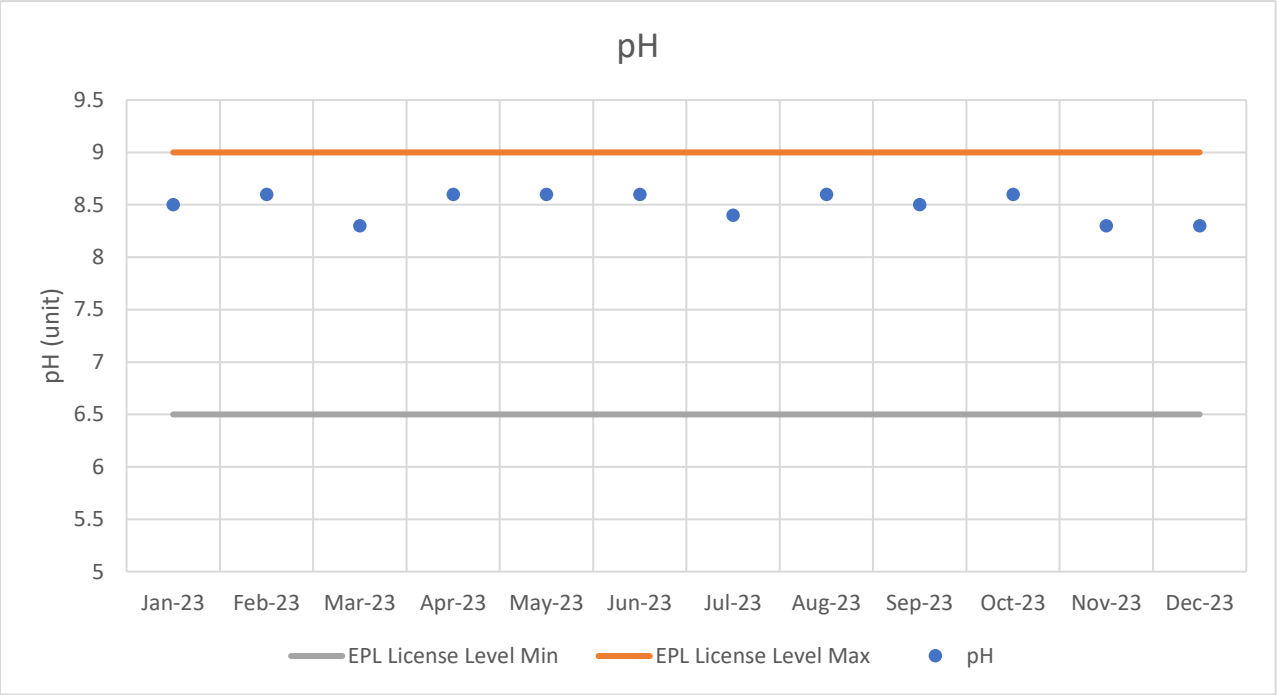


Figure 1 Monthly Compliance Monitoring of pH at LDP1 for the reporting period.

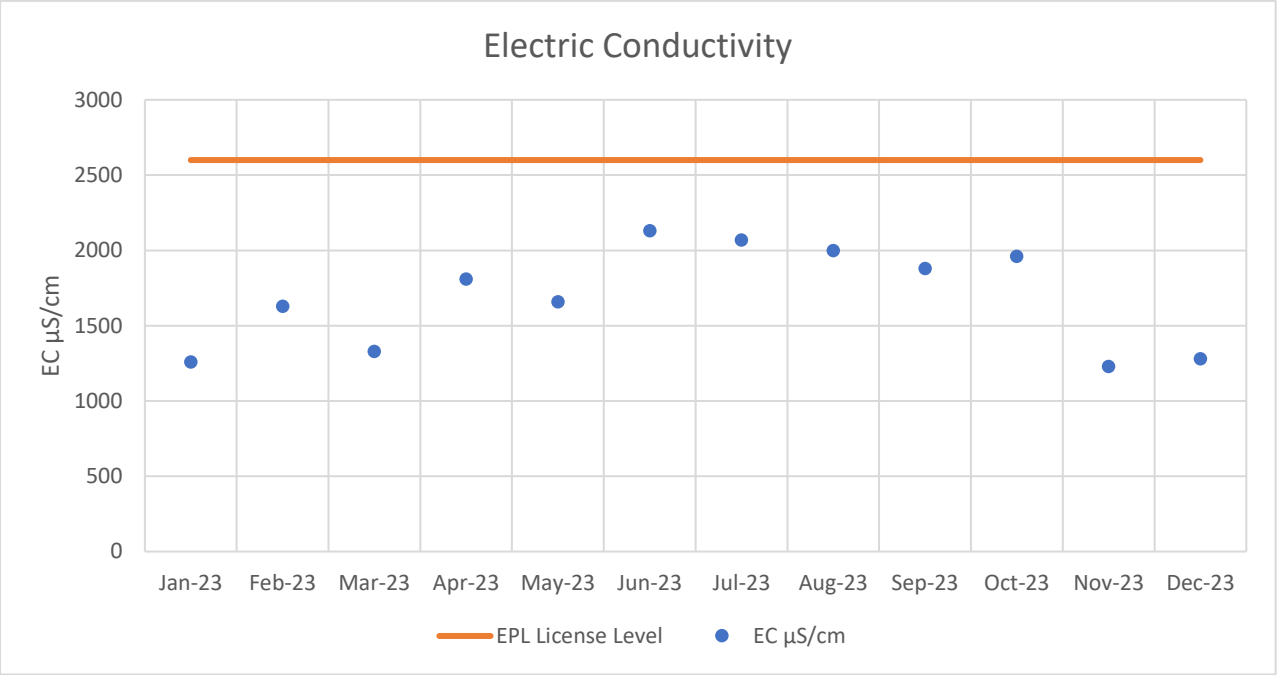


Figure 2 Monthly Compliance Monitoring of EC at LDP1 for the reporting period.

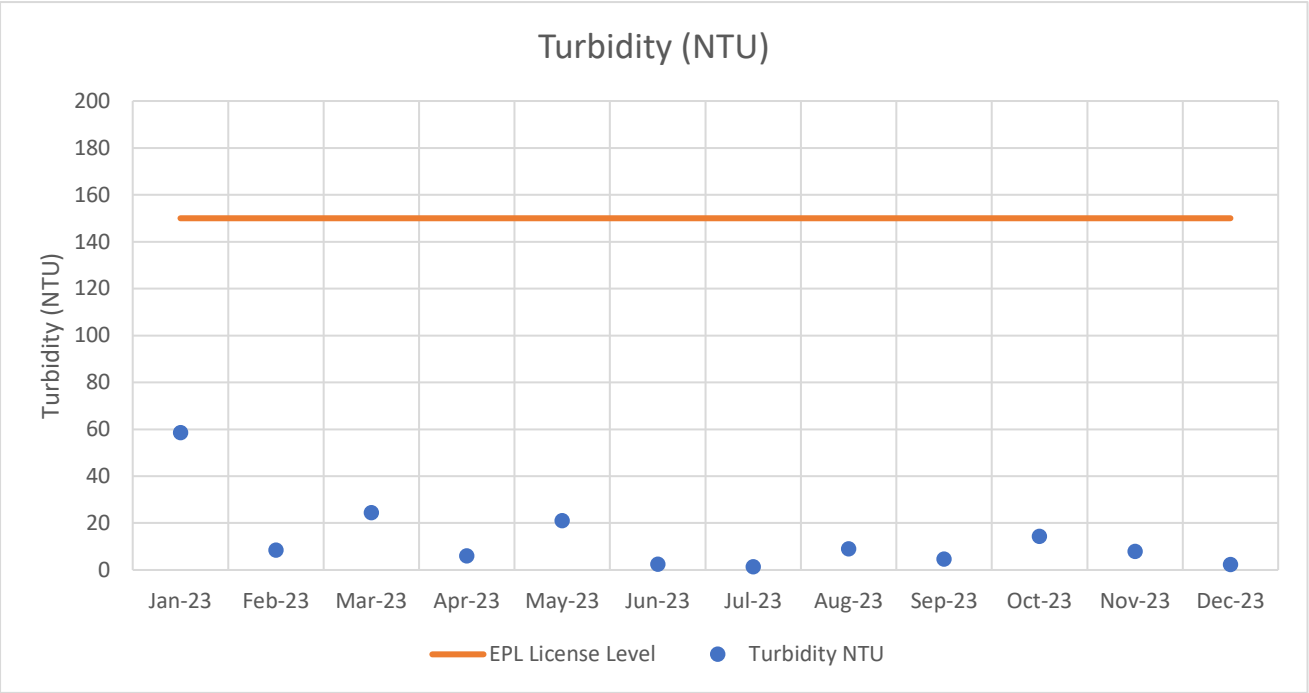


Figure 3Monthly Compliance Monitoring of Turbidity at LDP1 for the reporting period.

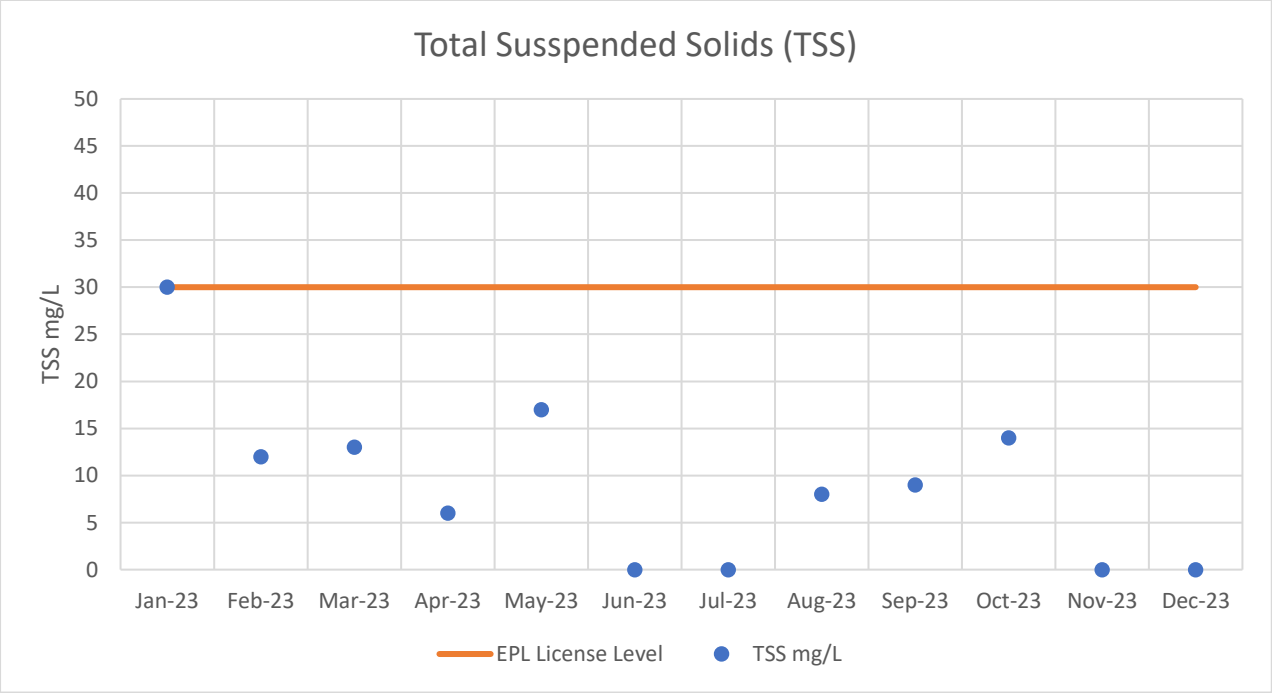


Figure 4 Monthly Compliance Monitoring of Total Suspended Solids at LDP1 for the reporting period. Sample taken in January 2023 was following a 25mm rainfall event received on site during the previous 24 hrs.

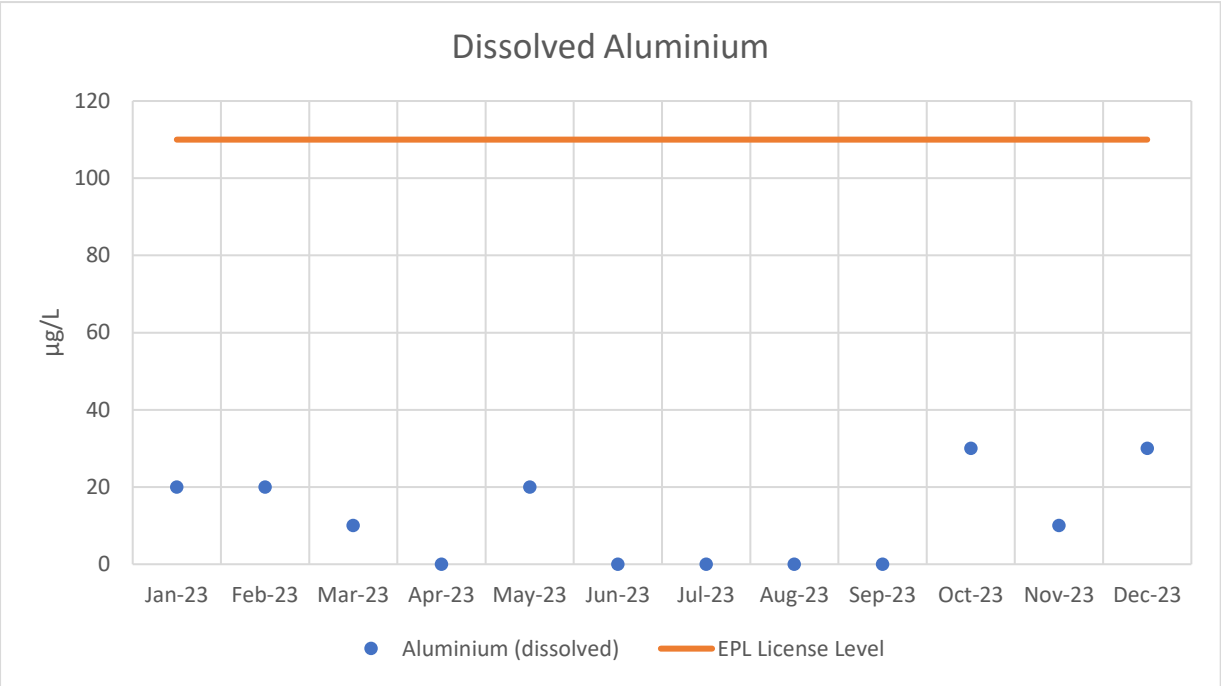


Figure 5 Monthly Compliance Monitoring of Dissolved Aluminium at LDP1 for the reporting period.

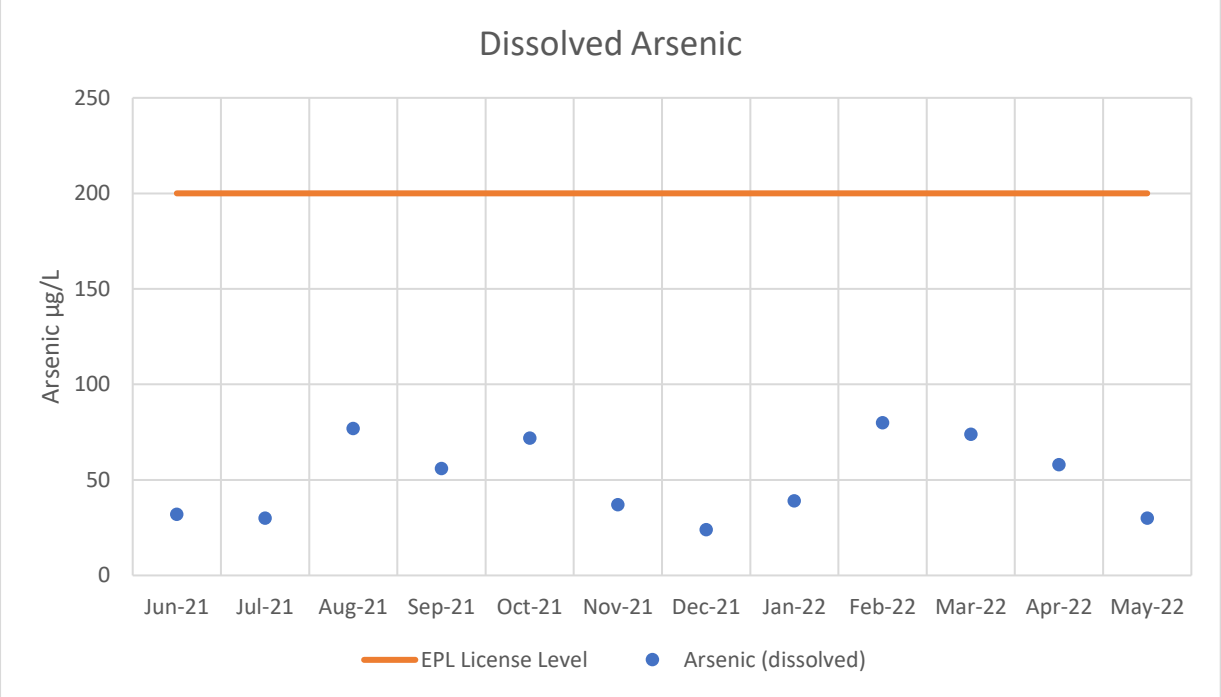


Figure 6 Monthly Compliance Monitoring of Arsenic at LDP1 for the reporting period.

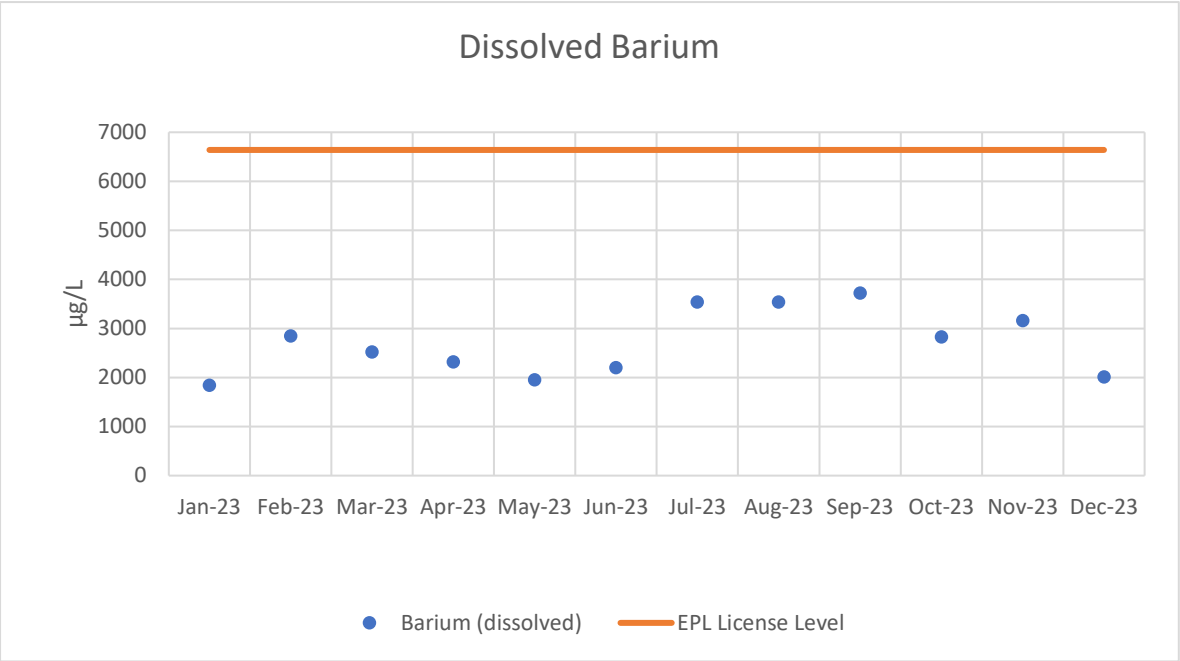


Figure 7 Monthly Compliance Monitoring of Dissolved Barium at LDP1 for the reporting period.

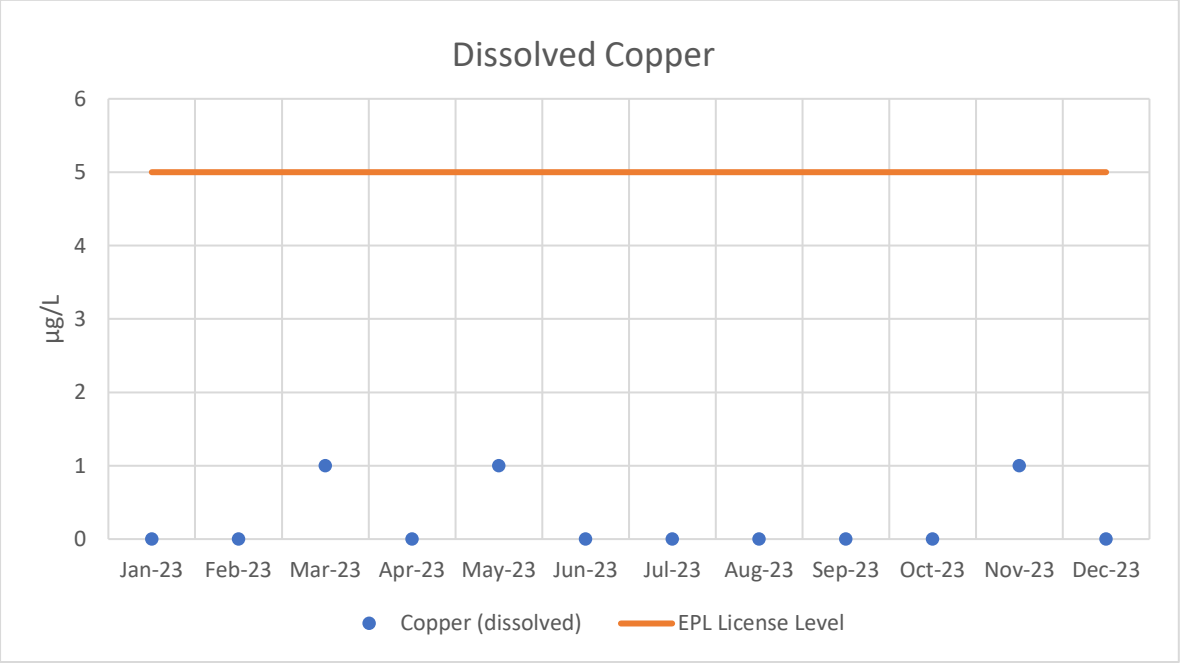


Figure 8 Monthly Compliance Monitoring of Dissolved Copper at LDP1 for the reporting period.

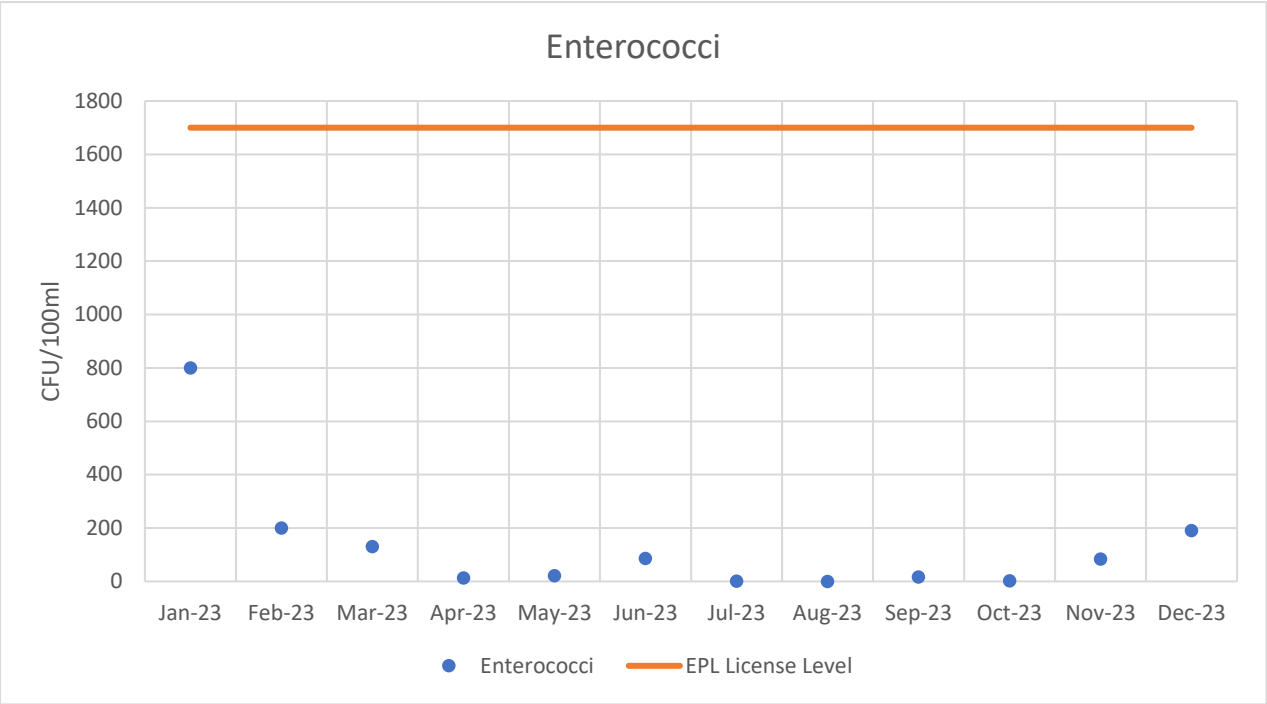


Figure 9 Monthly Compliance Monitoring of Enterococci at LDP1 for the reporting period.

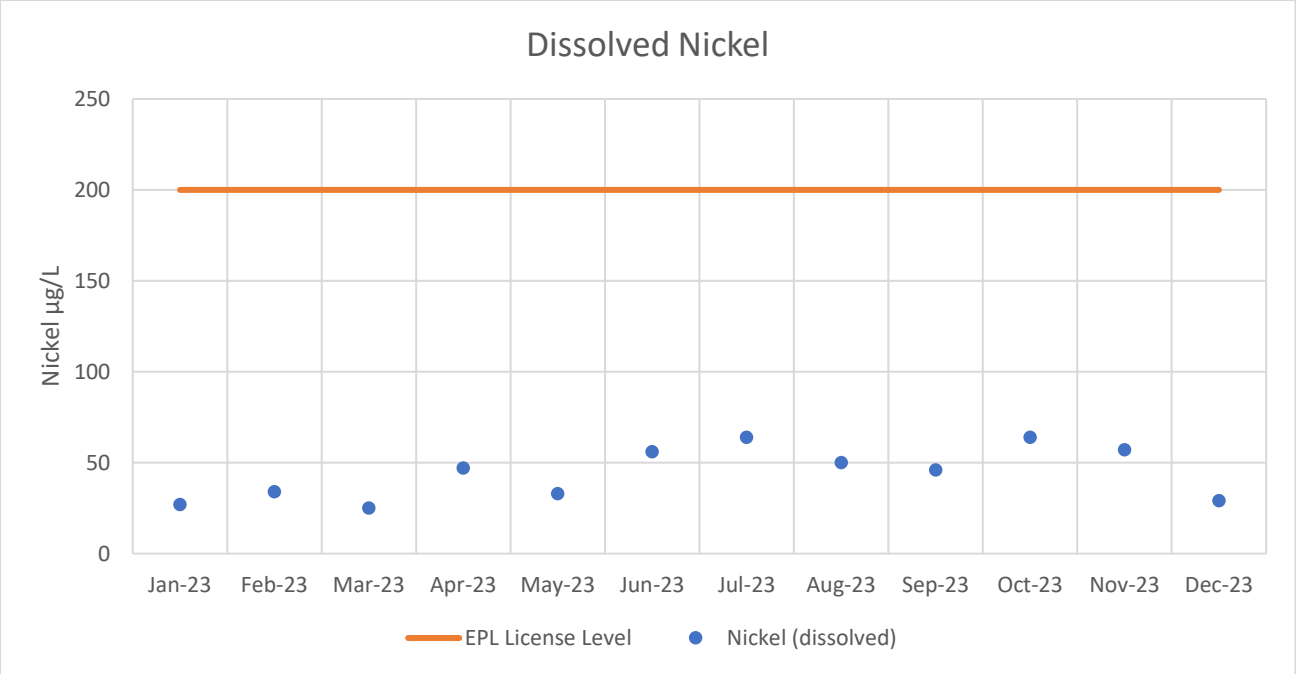


Figure 10 Monthly Compliance Monitoring of Nickel at LDP1 for the reporting period.

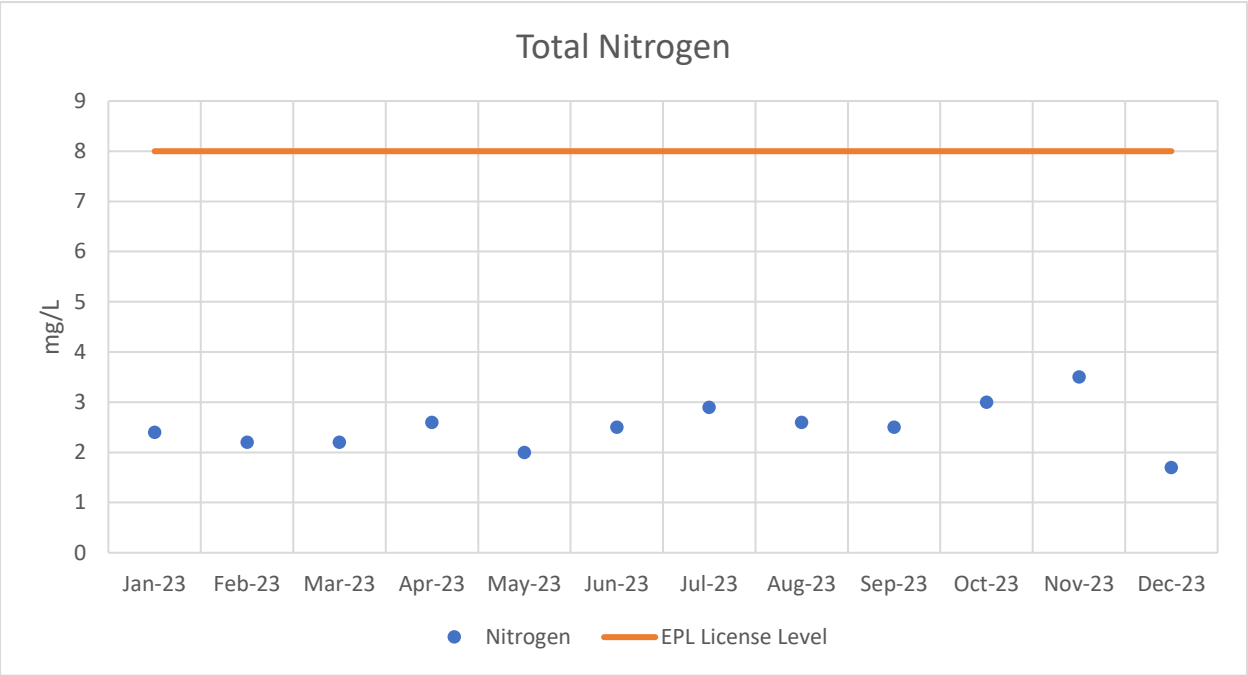


Figure 11 Monthly Compliance Monitoring of Nitrogen at LDP1 for the reporting period.

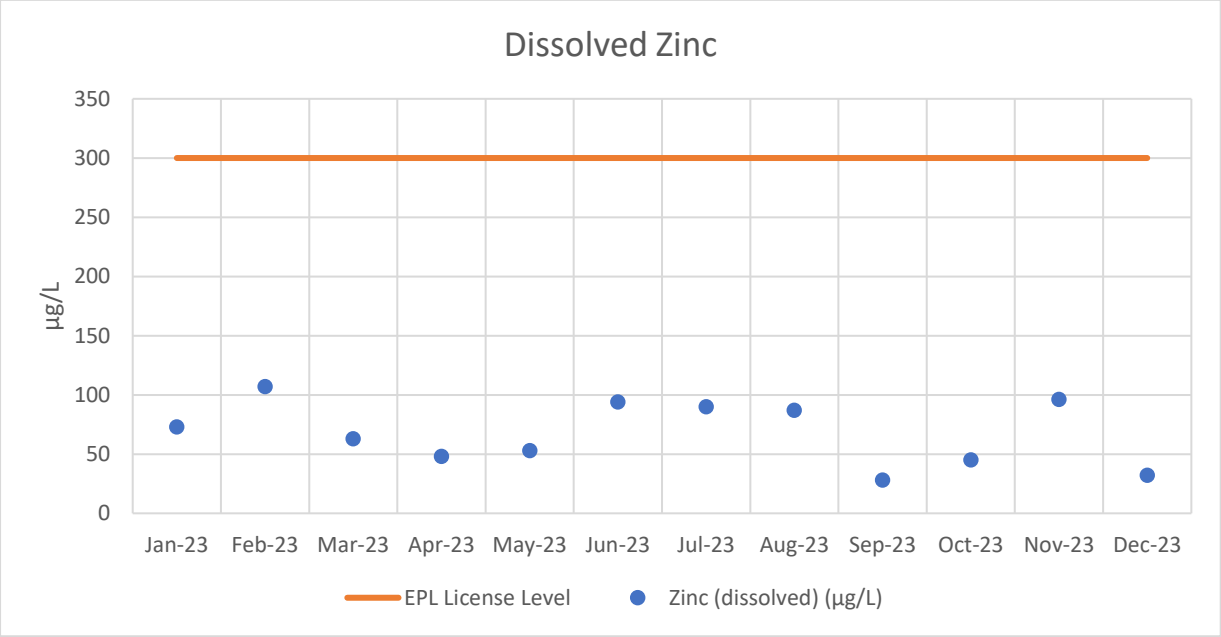


Figure 12 Monthly Compliance Monitoring of Dissolved Zinc at LDP1 for the reporting period.

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			Pit Top																		
		Well Name	Pit Top 1				Pit Top 2				Pit Top 4				REA1				REA2		
		Sample Name	PT1				PT2				PT4				REA1				REA2		
		Date Attended	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023
Paramters	Units	PQL																			
Initial Standing Water Level	mBTOC	0.01	38.98	39.5	Buried, not possible to sample	Buried, not possible to sample	3.48	Buried, not possible to sample	Buried, not possible to sample	Buried, not possible to sample	20.04	21.21	25.19	26.41	41.06	41.08	41.18	41.15	31.58	31.92	32.23
Final Standing Water Level	mBTOC	0.01	38.98	39.5			3.48				20.04	21.21	25.19	26.41	41.06	41.08	41.18	41.15	31.58	31.92	32.23
Total Well Depth	mBTOC	0.01	56.89	49.3			6.74				33.26	33.21	32.9	32.9	57.17	56.88	55.99	56.75	55.87	55.89	55.75
Flow estimation	L/s	5.00											Hydrasleeve	Hydrasleeve			Hydrasleeve	Hydrasleeve			Hydrasleeve
Volume of Water Purged	L	1	1	1			1				1	1	1	1	1	1	1	1	1	1	1
Total Dissolved Solids (field)	mg/L	0.10	2236	1423.5			318.5				269.1	292.5	247	1287	365.95	358.15	338.45	281.45	196.95	152.1	95.55
Dissolved Oxygen (field)	mg/L	0.01	1.56	2.74			2.22				0.95	1.87	3.23	0.92	1.39	1.05	1.96	1.02	1.92	3.65	8.43
Electrical Conductivity (field)	µS/cm	1	3445	2195			491.3				414.3	453.2	380	1777	561	550.9	512	380	302.8	234.5	147
pH (field)	pH units	0.10	11.53	11.49			6.96				7.61	7.32	7.02	5.94	7.11	6.22	6.34	6.19	7.06	6.64	6.67
Redox (field)	mV	1.00	-106.4	-65.2			-97.60				-108.00	-100.80	-37.70	-267.20	-95.50	-73.30	-34.00	-256.70	-52.80	-20.40	-40.50
Temperature (field)	°C	0.1	19.4	18.4			20.5				20.8	17.9	17.4	18.9	19.3	17.9	18.4	18.6	18.2	17.5	17.7
Calcium - Dissolved	mg/L	0.5	260	32			73				28	28	25	19	2	2	2	0.9	43	17	21
Potassium - Dissolved	mg/L	0.5	31	47			11				8.2	10	17	14	1	2	1	1	3	3	3
Sodium - Dissolved	mg/L	0.5	210	260			58				41	27	39	32	88	96	79	85	10	9.5	8.4
Magnesium - Dissolved	mg/L	0.5	<0.5	<0.5			27				17	15	9.2	9	5.9	6.3	6.7	3	3	1	2
Hardness	mgCaCO3/L	3	660	81			290				140	130	100	85	30	32	33	16	120	49	59
Hydroxide Alkalinity (OH-) as CaCO3	mg/L	5	720	<5			<5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as CaCO3	mg/L	5	<5	250			500				270	190	130	170	120	110	110	120	130	56	59
Carbonate Alkalinity as CaCO3	mg/L	5	150	91			<5				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Alkalinity as CaCO3	mg/L	5	880	340			500				270	190	130	170	120	110	110	120	130	56	59
Sulphate, SO4	mg/L	1	21	53			24				24	14	30	28	9	12	9	11	13	13	10
Chloride, Cl	mg/L	1	200	190			16				14	18	13	16	86	94	79	88	5	5	3
Ionic Balance	%		-1	3			-11				-13	-6	8	-12	-6	-2	-5	-11	-1	-2	5
Total Nitrogen in water	mg/L	0.1	1.4	1.3			0.6				3	2.2	2.2	0.7	0.2	0.1	0.2	<0.1	0.5	0.2	0.3
Fluoride, F	mg/L	0.1	0.2	0.2			0.1				0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	<0.1	0.1
Dissolved Organic Carbon	mg/L	1	22	21			3				25	28	18	9	1	3	3	1	11	11	9
Phosphorus - Total	mg/L	0.05	<0.05	<0.05			<0.05				1.5	3	1.2	0.63	0.05	<0.05	<0.05	0.05	0.06	0.08	<0.05
Aluminium-Total	µg/L	10	500	670			1200				1500	3100	1600	980	330	310	340	350	2400	4900	2400
Arsenic-Total	µg/L	1	1	2			6				6	11	4	5	3	2	2	2	2	1	<1
Barium-Total	µg/L	1	350	63			1200				130	310	77	140	92	91	83	74	47	41	24
Cobalt-Total	µg/L	1	2	2			<1				4	5	2	20	24	19	18	26	2	1	<1
Copper-Total	µg/L	1	40	21			4				8	15	13	6	5	5	4	6	6	9	4
Iron-Total	µg/L	10	590	760			17000				6900	17000	4000	4700	17000	12000	14000	16000	2600	3300	2400
Lithium-Total	µg/L	1	190	210			170				5	9	6	14	140	150	130	120	2	6	1
Manganese-Total	µg/L	5	25	41			150				1000	4900	300	1900	820	890	830	740	230	76	62
Nickel-Total	µg/L	1	17	21			2				700	240	320	290	61	62	60	58	2	2	1
Lead-Total	µg/L	1	3	2			4				8	15	6	5	9	7	5	7	4	8	3
Selenium-Total	µg/L	1	<1	<1			<1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Strontium-Total	µg/L	1	880	230			950				210	300	160	240	17	23	16	17	180	110	89
Zinc-Total	µg/L	1	270	400			16				130	230	150	110	77	57	71	93	22	35	15
Aluminium-Dissolved	µg/L	10	320	530			870				550	20	20	30	190	<10	10	10	1600	80	60
Arsenic-Dissolved	µg/L	1	<1	2			4				5	3	3	2	<1	<1	<1	<1	1	<1	<1
Barium-Dissolved	µg/L	1	270	66			750				110	87	41	59	78	86	80	71	39	18	17
Cobalt-Dissolved	µg/L	1	<1	<1			<1				3	1	1	2	10	1	1	2	1	<1	<1
Copper-Dissolved	µg/L	1	20	13			2				6	<1	4	2	2	<1	<1	<1	3	2	1
Lithium-Dissolved	µg/L	1	170	190			110				3	4	5	4	130	130	130	130	1	4	<1
Manganese-Dissolved	µg/L	5	<5	<5			98				790	1900	350	1100	750	890	800	730	340	12	44
Nickel-Dissolved	µg/L	1	14	18			2				700	140	270	310	48	48	45	46	<1	2	<1
Lead-Dissolved	µg/L	1	<1	1			3				6	<1	<1	<1	4	<1	<1	<1	2	<1	<1
Selenium-Dissolved	µg/L	1	<1	<1			<1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Strontium-Dissolved	µg/L	1	700	250			660				180	220	160	180	16	21	18	17	160	93	94
Zinc-Dissolved	µg/L	1	57	46			7				110	9	30	23	41	<1	5	3	13	1	6
Iron-Dissolved	µg/L	10	<10	20			6200				5600	2700	240	220	14000	14000	12000	2200	2000	210	260

Note:
NT: Not tested
N/A: not applicable

REA

	REA3				REA4				REA5				REA6				REA7			
	REA3				REA4				REA5				REA6				REA7			
10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	8/02/2023	10/05/2023	3/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023	10/02/2023	11/05/2023	4/08/2023	10/11/2023
32.39	31.58	33.89	34.89	35.44	33.85	34.9	35.48	36.42	1.93	1.83	1.88	2.03	37.81	38.05	38.35	38.58	22.64	24.68	27.08	27.88
32.39	31.58	33.89	34.89	35.44	33.85	34.9	35.48	36.42	1.93	1.83	1.88	2.03	37.81	38.05	38.35	38.58	22.64	24.68	27.08	27.88
55.92	55.87	39.49	39.26	40.09	54.33	54.13	54.49	53.91	7.31	7.33	7.37	7.31	41.08	40.92	40.98	41.75	38.92	38.80	38.65	38.58
Hydrasleeve			Hydrasleeve	Hydrasleeve			Hydrasleeve	Hydrasleeve			Hydrasleeve	Hydrasleeve			Hydrasleeve	Hydrasleeve			Hydrasleeve	Hydrasleeve
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
104	196.95	127.4	109.2	115.05	167.4	158.6	164.45	161.85	250.25	178.1	159.25	202.15	370.5	884	734.5	838.5	357.5	200.2	210	186.5
0.67	1.92	2.11	6.25	1.46	1.57	1.33	6.11	1.45	2.16	2.75	8.75	3.5	2.17	1	2.09	<0..01	1.44	2.38	1.52	2.17
146	302.8	195.6	168	151	257.80	244.00	253	216	385.2	273.7	245.00	252.40	573.00	1,361.00	1133	1196	552	308.4	324	258
6.59	7.06	6.65	6.91	6.61	6.43	6.87	6.94	6.81	6.37	5.99	7	6	6.8	6.04	6.26	5.91	7.32	9.25	8.50	8.36
-297.30	-52.80	-38.30	10.40	-287.60	-251.60	-34.20	-40.90	-296.80	-2.30	-7.90	18.40	-203.40	-55.2	-103.7	17.6	-217.8	-109.50	-66.00	-34.10	-326.00
20.3	18.2	17.3	16.8	17.3	18.90	17.00	17.50	18.20	18.5	17.7	15.30	15.10	19.60	17.40	18.70	21.20	21.2	17.9	18.3	19.5
19	24	23	29	25	30	12	32	32	4	5	6.6	5.9	33	20	25	23	3	5	5.4	5.1
3	4	4	5.2	5	11	12	15	14	2	4	4	4	31	17	20	18	8.7	32	35	32
8	4	3	5	5	8.8	11	12	13	48	27	36	35	150	200	190	190	110	34	46	34
2	2	1	2	2	1	0.8	1	2	8.7	5.4	6.5	7.1	12	15	17	17	6.2	0.8	1	1
53	67	64	79	70	81	40	87	87	47	34	43	44	130	110	130	130	33	15	18	17
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
62	79	77	76	83	100	100	110	120	20	23	23	23	190	110	130	140	200	110	110	110
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	14	13
62	79	77	76	83	100	100	110	120	20	23	23	23	190	110	130	140	200	110	120	120
9	2	3	2	3	4	5	4	5	11	13	11	12	29	42	36	40	35	29	26	28
4	4	4	4	5	7	9	8	11	64	63	54	79	180	310	260	300	35	5	5	8
-2	-3	-6	7	-3	-2	-20	1	-2	12	-12	6	-8	1	-3	4	-4	-2	-8	2	-10
0.3	0.4	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.5	0.6	0.6	0.5	0.5	0.2	0.2	0.3	0.1	0.5	0.4	0.7
0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
7	7	11	9	6	4	5	6	5	3	8	6	4	1	4	3	2	3	6	4	3
0.08	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.1	0.1	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.05	0.05
4600	710	1300	810	620	430	610	1000	810	880	1800	1500	790	810	810	740	570	1000	2700	1400	820
1	5	5	4	3	1	1	1	1	2	5	4	2	1	1	1	2	6	3	3	2
32	26	32	27	29	29	33	42	45	77	50	45	46	100	120	100	91	110	110	36	32
1	<1	1	<1	<1	4	5	6	3	21	20	16	8	15	28	16	21	26	11	10	3
6	6	10	7	7	4	6	4	4	9	10	7	4	9	11	4	4	5	19	6	6
4000	4000	3700	2900	3000	2700	3600	3300	2700	14000	17000	17000	13000	12000	21000	20000	22000	6000	6300	3400	2200
3	<1	3	<1	1	9	11	10	9	6	4	2	3	42	37	32	29	210	79	71	56
72	56	62	39	54	84	96	120	98	910	440	350	260	1000	2000	1700	1500	170	1000	90	170
2	2	3	2	3	6	9	7	5	18	14	12	9	16	20	13	19	62	16	21	7
4	3	5	3	2	3	4	2	3	11	21	17	8	6	5	2	2	7	11	4	2
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
86	89	100	98	88	150	170	170	150	27	44	36	34	220	260	240	200	24	130	75	80
32	150	250	200	240	140	190	140	120	1400	890	910	660	190	70	57	71	170	350	160	110
900	470	90	30	50	40	<10	20	30	880	<10	<10	20	640	10	<10	20	970	210	150	230
<1	5	2	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	1	<1	<1	<1	4	2	2	2
18	28	25	25	21	22	31	34	47	86	31	31	45	93	99	93	99	83	11	14	15
<1	<1	<1	<1	<1	<1	<1	1	<1	25	<1	<1	<1	17	30	15	23	19	<1	<1	<1
<1	6	2	3	3	1	2	1	<1	6	1	1	<1	8	<1	<1	<1	3	2	1	2
<1	<1	<1	<1	<1	8	10	9	10	6	2	2	3	36	34	32	32	180	58	57	55
54	69	26	10	11	11	16	29	12	1400	9	31	<5	1000	1800	1800	1400	130	<5	7	<5
<1	2	1	1	1	4	5	4	3	19	8	7	7	18	22	13	20	49	1	4	2
5	2	<1	<1	<1	<1	<1	<1	<1	16	<1	<1	<1	5	<1	<1	<1	4	<1	<1	<1
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
76	85	100	99	91	140	180	170	170	24	43	36	37	210	270	250	230	22	90	81	81
3	150	65	130	190	76	85	68	67	1700	720	610	630	170	26	28	76	130	2	5	17
1200	4000	850	70	90	50	20	40	20	15000	20	10	10	7000	14000	3300	6100	3100	110	100	90

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APPENDIX 9

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Tahmoor Coal Pty Ltd. Rehabilitation Monitoring 2023

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Template 2.8.1

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Abbreviations

Abbreviation	Description
ELA	Eco Logical Australia Pty Ltd
OGM	Organic Growth Medium
REA	Refuse Emplacement Area

1. Introduction

PURPOSE OF THIS REPORT

ELA conducts annual monitoring of site in accordance with the Tahmoor *Coal's Rehabilitation Management Plan - TAH-HSEC-402* and *Rehabilitation Strategy TAH-HSEC-401* and Rehabilitation Monitoring procedure. This report documents the 2023 monitoring results. This is completed by:

- an annual walkover inspection of all areas within the Refuse Emplacement Area (REA) where rehabilitation activities have been completed including newly established revegetation
- monitoring of permanent monitoring sites within each mine closure Domain. Within the REA (closure Domain 3) permanent plots have been established in each development stage to assess revegetation progress.

These guidelines state:

"The objective of this monitoring is to evaluate progress of rehabilitation towards fulfilling long term land use objectives, such as the development towards a self-sustaining ecosystem."

BACKGROUND

Rehabilitation of vegetation within the REA has been carried out since 1993, as each stage of the refuse emplacement was constructed. The permanent monitoring sites program began in 2010 with the establishment of two permanent plots within each existing section of the REA and two reference site plots within relatively undisturbed native vegetation nearby of the same Plant Community Type. As each stage of the REA was completed permanent plots have been established following revegetation. In addition, further plots were established in areas greater than four hectares to address the recommendations for native vegetation monitoring provided in the Rehabilitation Strategy. In future, in accordance with monitoring guidelines, additional permanent plots will be installed as each area of revegetation within the REA reaches an age of 5 years from planting.

MONITORING METHODOLOGY

Monitoring of permanent sites in the rehabilitation areas provides information regarding changes in both vegetation growth, senescence, colonisation and species diversity. In addition, indication of the success of the rehabilitation is gained through comparison of both vegetation structure and species composition with the reference sites monitored in nearby bushland. Methods for measuring these values include:

- detailed species counts and cover within 2 m x 2 m nested quadrats
- species diversity within 2 m x 2 m nested quadrants
- canopy cover
- growth rates of trees via Diameter at Breast Height (DBH) measurement
- reproductive potential, progress within a 20 m x 10 m plot and
- Photographic monitoring of plots is also implemented.

The walkover inspection records details across each stage and includes information on the following factors:

- evidence of soil profile development and visual assessment of surface materials

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- evidence of erosion and stability, and function of erosion and sediment control structures
- growth rates and evidence of plant mortality or dieback
- species diversity including identification of target species
- presence of over-storey, midstorey and understorey species
- evidence of reproductive potential
- evidence of biological nutrient cycling
- occurrence of potholing or slumping and evidence of spontaneous combustion
- evidence of contamination or other limitations to vegetative establishment.

Native grass species have been trialled via direct seeding, in areas where the existing vegetation within established revegetation areas was sparse. These grass planting trials were monitored to review the survival and growth of planted species.

More detailed presentation of the monitoring results is included in the appendices:

- **Appendix A - Monitoring 2023 – Mine Closure Domains 1 – 5 Permanent Sites and**
- **Appendix B - Monitoring 2023 - Annual Walkover – Refuse Emplacement Area and No. 2 Shaft Power Corridor.**

These appendices include collated details of the recorded monitoring results, the collected field data sheets, and monitoring photographs.

2. Results

2.1 Previous monitoring results

Revegetation across the REA was highly variable with some sections approximately 21 years old and others newly established with seeding carried out 36 months prior to monitoring. The native species included in the revegetation mix also varies, in both diversity and structural representation, between those areas revegetated prior to 2006 and those revegetated more recently.

Characteristics of sections revegetated prior to 2006 include:

- Canopy species including *Eucalyptus* species, *Angophora* species and *Allocasuarina littoralis* (Black She-oak) providing canopy cover ranging from good to limited, heights up to 10 m and exhibiting good growth. Second generation *A. littoralis* were common near mature plants, with other canopy species second generation plants beginning to appear.
- Smaller tree species including *Acacia decurrens* (Black Wattle) and *Acacia binervia* (Coast Myall) were also regenerating with second generation individuals present.
- A midstorey that varied from dense stands of *Kunzea ambigua* (Tick Bush) or the non-local species *Leptospermum laevigatum* (Coast Teatree) to scattered *Acacia* species interspersed with other less abundant native species.
- Highly effective weed control actions reduced weed cover where extensive stands of the weed *Andropogon virginicus* (Whiskey Grass) and smaller populations of *Eragrostis curvula* (African Lovegrass) were present and excluded all other species. Weed cover was generally low with weed control providing good on-going results.
- Increasing colonisation by native grasses with cover increasing annually in most areas, including where exotic grasses have been controlled.
- Vegetation was dominated by *Acacia* species, many of which are senescent or in some sections mixed native vegetation that is not representative of the local native plant communities. Senescent Acacias becoming less common.
- Good species diversity including target species of nearby remnant vegetation; however, many species had a low abundance.
- All species exhibited signs of good reproduction potential including the threatened species, *Persoonia bargoensis* and *Grevillea parviflora* subsp. *parviflora* (Small-flower Grevillea).

Characteristics of sections revegetated in 2007 (Stage 8):

- originally planted with pasture species as a stabiliser, and was still dominated by exotic grasses in 2016
- trial of reseeding using the soil amelioration product OGM proved not suitable for the REA
- very limited cover by native species, both target and non-target
- scattered patches of native grasses with good cover prior to 2017
- revegetation and rehabilitation measures were ceased in 2023

Characteristics of sections revegetated post 2010 are:

- generally good germination rates on level areas with species from all strata represented

- germination more variable on slopes but still adequate
- growth rates moderate to very good
- limited weed populations.

2.2 Monitoring results in 2023

EROSION CONTROLS

Erosion control structures, which were implemented in 2019, remain in good condition and no major erosion was recorded along the slopes of the REA. An area in Stage 1, where seepage affected vegetation growth, was rehabilitated with the ripping of the soil surface and mulching in 2018 (Figure 1). This area continues to be in a good condition with no seepage evident in 2023. Nearby the seepage area, minor erosion has been recorded, this should continue to be monitored and minor works required to rectify the erosion if required. Over the past 12 months average rainfall has been slightly below average. All erosion control measures, and gully erosion should still be monitored to prevent significant erosion developing.

GRASS TRIALS

Monitoring of grass trials was undertaken as part of the 2023 works. The fencing around most of the grass trials has been damaged by Kangaroos. A quantitative analysis of grass trials had showed average regeneration rates of eucalypt species and *Allocasuarina littoralis* species. Other shrub and grass species were also prevalent despite some evidence of minor grazing activity. Previously, this was evident within Stages 1, 2 and 3, however grass growth rates were also observed within Stages 4 and Stages 14 and 16.

The reference plots and permanent monitoring plots which were burnt by fire in 2019 have recovered well and have a diversity and abundance of species similar to those species within the REA. There is continued evidence of nutrient recycling with termite mounds, ants and scats noted in those burnt plots. Litter cover has stabilised in these plots with grass, leaf litter and twigs recorded in all plots. Plot data is available in Appendix A.

REFERENCE AND PERMANENT PLOT MONITORING

Most reference and permanent monitoring plots recorded a slight decrease in native understorey species cover and diversity, though regeneration of midstorey and canopy species remains stable with emergent juveniles including *Acacia* spp., *A. littoralis*, *Eucalyptus globoidea* and *E. punctata*. Similar changes to vegetation structure and composition were observed in the reference plots and may be a result of slightly below average rainfall and higher than average temperatures experienced throughout the year.

Overall, weed cover significantly decreased across all monitoring plots when compared with 2022 results. This may be attributed to the warmer, dryer weather conditions in addition to weed management practices.

Additional characteristics and changes that were noted within the required monitoring plots include:

- adequate growth of the diameter at breast height (DBH) in all canopy species including juveniles and seedlings
- continued senescence of *Acacia* spp.

- treatment of *Acacia saligna* across Stages 1 to 5 has controlled the spread of this species.
- gully erosion becoming more apparent at the outermost eastern edge of Stages 12a and Stage 14.

Table 1 provides further details of the monitoring results from 2023 in comparison with results from earlier years and recommendations.



Figure 1: Stage boundaries, reference plots and permanent monitoring plots within the REA.

Table 1: Key monitoring results

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
Soil profile development	Highly variable and developing in the older stages of rehabilitation around leaf and grass litter, fallen timber, native grass clumps, and newer revegetation in rip lines. 2020 Development recorded in rip lines and areas with high leaf litter. Low grass cover litterdue to drought conditions. 2022 Soil profile continues to develop across all areas of the REA and litter cover has generally improved or remained consistent across all monitoring plots.	Soil profile continues to develop across all areas of the REA and litter cover has generally improved or remained consistent across all monitoring plots in 2023.	Continue to monitor soil profile
Evidence of erosion	Isolated areas of minor gully erosion, rill and sheet wash have been recorded. Remediation works carried out at several locations. Additional drains installed to direct stormwater and addressing erosion in new rehabilitation area. Stormwater drains in some sections were rock lined to provide better erosion control. 2020 Limited, minor gully erosion present across the REA. 2022 Limited, some erosion noted past the seepage area to the north of Stage 1 which should be monitored.	Evidence of erosion is present within the lower stages of 12a and 14 between the edge of the REA and the existing fence line to the east.	Consider if further action is required for more significant areas of gully erosion with native fill. Continue to monitor for minor gully erosion and repair with minor works such as infilling with logs and branches
Native plant species diversity	Species diversity has increased since monitoring began, with an increase in groundcover species seen in areas of weed control within the early revegetation areas.	Native species diversity of canopy, shrubs and grasses is generally consistent across the REA and many of the	Maintain weed control program with attention to avoiding off-target damage to native species.

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Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	Native herbs and forbs are more abundant in areas where native grasses are colonising. The midstorey is dominated by *Acacia* spp., but also includes *Dodonaea* spp., *Persoonia* spp., *Kunzea ambigua and Cassinia* sp. Groundcover species diversity is good with herbs, sedges, lilies, and grasses all represented; however, many species have low abundance. <u>2020</u> <u>Burnt vegetation</u> Reference sites and Stages 6 and 9 were consumed by fire in 2019. These areas show evidence of epicormic growth in canopy species. Midstorey species consumed by fire and have not begun to regenerate yet. Grass and forb cover in the understorey is regenerating and generally includes good species diversity and cover and include target species. Leaf and twig litter is slowly accumulating. <u>Non-burnt vegetation</u> Native species diversity remains consistent overall allowing for a dry season and a decrease in species diversity in undisturbed bushland. *Acacia* diversity reduced with senescence in some shrub species. Senescence of *Hakea* species also noted across stages 1 and 2. The number of target species (i.e., those consistent with reference sites and nearby native vegetation) within	target species within the adjacent bushland have also colonised within the REA.	

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	each monitoring plot remains adequate to good despite earlier drought conditions. Species diversity in canopy species adequate on average in most REA stages, however some sections have more limited diversity. Midstorey species diversity more limited. Forb species diversity is limited. <u>2022</u> Regeneration of *Acacia* spp. is high and many seedlings and saplings of *Eucalyptus* spp. and *Allocasuarina littoralis* noted within and around plots. Grass and forb cover in the understorey is regenerating and generally includes good species diversity and cover and includes target species. Leaf and twig litter has significantly increased. <u>Non-burnt vegetation</u> Most plots recorded increased percentage of understorey cover including shrubs and non-grasses. Native grass cover tended to decline overall Good diversity of species noted across the REA. Expected that target species in non-burnt plots will better align with the Reference sites as they continue to regenerate		
Native plant cover (overstorey, midstorey, groundcover)	Native cover is highly variable within all strata across the REA and, with some small areas devoid of vegetation. Canopy cover varies from good to very low, with much of the revegetation too young to provide a meaningful measurement.	Native vegetation cover is stable within Stages 1 to 5 within the REA. Native cover has increased within Stage 12a and the lower sections of Stage 14 and 16. Whilst there is cover of scramblers and shrubs continuing to develop within the upper stages of 14 and 16, the overall cover of native grasses is generally low.	Consider undertaking more native grass trials within the upper stages of 14 and 16.

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	Sub-shrub cover is more limited with a number of species failing to reach maturity. Groundcover varies within the established revegetation areas from 100% to 0%. Colonisation by grasses and groundcover species is patchy but improving slowly. <u>2020</u> Native plant cover remains variable across the REA, with groundcover varying greatly and some areas devoid of groundcover species. Otherwise, native plant cover is increasing at a slow rate. Colonisation by groundcover species including grasses and sedges delayed by earlier drought conditions In more recent revegetation areas, native cover is consistent with high numbers of juvenile canopy species. <u>2021</u> Native plant cover has generally increased across the REA with most plots recording increase in cover of understorey stratum. Areas which have the least groundcover are within I1 and I2. Continue to monitor native plant cover in these plots and consider infilling with native grass tubestock. <u>2022</u> Notable recruitment in midstorey stratum, as permanent plots continue to progress. Overstorey species second generation recruitment evident and consistent across the REA.		

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	Previously noted that plots I1 and I2 (Stage 12b) lacked groundcover species; result from 2022 monitoring recorded increase in understorey live cover and increase in total number of native species.		
Native plant growth rates and regeneration	Canopy species growth is adequate and is consistent with the growth rates determined in the undisturbed nearby native vegetation. Second generation canopy species are prevalent in the earlier revegetation areas. Many *Acacia parramattensis* are senescent or have died and fallen. Some species (particularly sub shrubs) failing to thrive to maturity, possibly due to selective herbivory by rabbits. Native grasses are regenerating and spreading in some sections strongly. <u>2020</u> For those monitoring plots burnt in the 2019 bushfires the following characteristics were noted: • all strata consumed by fire • canopy species showing epicormic growth • midstorey is absent, *Allocasuarina* and *Acacia* species did not survive hot fire • groundcover has recolonised following fire, generally low cover however, some monitoring plots have higher diversity of species post fire. • leaf litter and woody material largely consumed by fire, reduced cover of grass, twig litter is available.	The growth rate in canopy species remains consistent and small increases recorded in all plots across the REA in 2023.	Nil.

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	Growth rates are variable in newly established revegetation areas. Growth rates are generally better in those areas with low slope, indicating that moisture availability is limiting growth on steeper sections. The growth rate in canopy species remains consistent. Senescent *Acacia* midstorey species are present across the REA. Growth rates, other than that of sub-shrubs, are adequate but variable. Second generation recruitment in this stratum is greatest in *Acacia* species, with recruitment in other species increasing slowly. Native grasses have increased in some monitoring plots despite drought conditions. 2021 The growth rate in canopy species remains consistent and small increases recorded in all plots across the REA. 2022 The growth rate in canopy species remains consistent and small increases recorded in all plots across the REA.		
Threatened flora	Two threatened species have been observed within the rehabilitation areas, *Grevillea parviflora* subsp. *parviflora* and *Persoonia bargoensis* 2020 The population of *Grevillea parviflora* subsp. *parviflora* within Stage 6 has significantly decreased as a result of fire in late 2019. One individual seedling was found within this area during 2020 monitoring.	Stable populations of *Grevillea parviflora* subsp. *parviflora* and *Persoonia bargoensis* in Stages 6 and 9. Stable populations of *Persoonia bargoensis* where it has not been recorded previously across Stage 3 and 4.	Continue to monitor threatened species populations. Weed control in the vicinity of these species to be carried out by hand.

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Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	The population of *Persoonia bargoensis* is increasing within areas of early revegetation. It is unknown if the plants previous recorded within the No 2 shaft 11kV power line were lost to fire in late 2019. <u>2021</u> Stable populations of *Grevillea parviflora* subsp. *parviflora* and *Persoonia bargoensis.* <u>2022</u> Stable populations of *Grevillea parviflora* subsp. *parviflora* and *Persoonia bargoensis* in Stages 6 and 9. *Persoonia bargoensis* also recorded in some permanent monitoring plots in Stages 3, 4, & 5 and Stage 10 where it has not been recorded previously.		
Weed occurrences and cover	Weed densities were highly variable across the REA. Heavy infestations of *Andropogon virginicus* (Whiskey Grass) and smaller populations of *Eragrostis curvula* (African Lovegrass), *Sisymbrium officinale* (Hedge Mustard) and *Nassella trichotoma* (Serrated Tussock) were observed within the early rehabilitated areas in the north of the REA prior to 2010. Weed control programs were instigated with strong results. *Andropogon virginicus* and *Eragrostis curvula* continued to be present in isolated patches within the REA. *Cenchrus setaceus* (Fountain Grass) colonised the slopes of Stage 5 in 2017. <u>2020</u> Weed cover is generally low across the REA, however there is increased cover by *Eragrostis curvula* in several stages - the upper benches of Stages 14 and 16 and	*Gomphocarpus fruticosus* not recorded across REA. *Cenchrus setaceus* not recorded across REA. New exotic population of *Cenchrus longisetus* (Fox-tail Grass) noted in isolated areas within the REA within Stage 2, Stage 3 and Stage 5.	Increase weed monitoring and weed control program overall, targeting key areas of new weed infestations. Take care to avoid off-target species during weed control works. *Cenchrus longisetus* (Fox-tail Grass) control – herbicide options to treat Fox-tail Grass include: Flupropanate 745 g/L (Tussock®) Rate: 300 mL per 100 L of water Comments: Spot spray application. Herbicide group: 15 (previously group J), Glyphosate 360 g/L (Various products) Rate: 335ml in 100 L of water Comments: Spot spray application.

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	Stage 12, and the western section of stage 10. Patches of this weed are increasing across the REA. *Cenchrus setaceus* (Fountain Grass) continues to spread on the slopes of Stage 5. The population of *Sisymbrium officinale* has increased over the last 12 months. The small population of *Gomphocarpus fruticosus* (Narrow-leaved Cotton Bush) has increased over the last 12 months. <u>2021</u> The population of *Gomphocarpus fruticosus* was significantly lower than previous year. Populations of *Sisymbrium officinale* and *Cenchrus setaceus* continue to spread across Stage 5 and parts of Stage 1. Large area of *Eragrostis curvula* present on top of upper benches of Stages 14 and 16 and Stage 12 <u>2022</u> *Gomphocarpus fruticosus* not recorded across REA *Cenchrus setaceus* not recorded across REA Populations of *Sisymbrium officinale* and *Eragrostis curvula* continue to spread across Stage 5 and parts of Stage 1. Large area of *Eragrostis curvula* present on top of upper benches of Stages 14 and 16 and Stage 12		Apply when plant is actively growing. Withholding period: Nil. Herbicide group: 9 (previously group M). Continue to monitor for other weeds including *Gomphocarpus fruticosus* and continue to remove and bag seed heads as isolated occurrences are recorded during monitoring.
Non-local native species	Non-local native species are common within those sections of the REA which were revegetated prior to 2000 and are uncommon elsewhere. *Leptospermum*	It was noted that significant control works have been undertaken within the REA for *Acacia saligna*. In	Continue to control the spread of *Leptospermum laevigatum* by

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	laevigatum is the most abundant non-local native species and is colonising strongly outside the original area of planting. *Acacia saligna* (Western Australian golden wattle) was recorded as both mature trees and juveniles. This species was controlled across the REA prior to November 2016. Most other species within this category are present in limited numbers and populations are not increasing. <u>2020</u> *Leptospermum laevigatum* remains abundant within the oldest revegetation area with scattered individuals beyond stages 1 and 2. These species have not been included in more recent seedings for revegetation within the REA. Limited *Acacia saligna* seedlings were located across the REA. <u>2021 -</u> *Leptospermum laevigatum* remains abundant. *Acacia saligna* is limited. <u>2022</u> *Leptospermum laevigatum* remains abundant. *Acacia saligna* is limited.	particular many areas where this species was present within Stages 2 and 3 have been treated.	controlling seedlings outside stages 1 and 2. Maintain monitoring for *Acacia saligna* and control opportunistically during weed control activities.
Feral fauna	Evidence of significant rabbit population. Herbivory by this species was considered to be impacting on the success of revegetation by the selective removal of some species. Rabbit population controlled in 2017. <u>2020</u> A small rabbit population remains.	No rabbits noted during field survey, however it is likely that a population remains in the area.	Rabbit monitoring to continue and conduct a control programme in conjunction with neighbouring properties if required. Consultation by Tahmoor Coal with Local Land Services advisable.

Key Characteristics	Summary - Results from Permanent Plot surveys 2010 – 2017 and Walkover surveys 2018 - 2022	Results from survey 2023	Recommendations
	2021 A small rabbit population remains. 2022 Rabbits noted during field surveys		

References

Eco Logical Australia 2023. *Tahmoor Coal Pty Ltd. Rehabilitation Monitoring 2022*. Prepared for Tahmoor Coal Pty Ltd.

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Department of Primary Industries. 2023. NSW Weed Wise. African Lovegrass (*Eragrostis curvula*) profile. Available from: https://weeds.dpi.nsw.gov.au (Accessed 13 February 2023).



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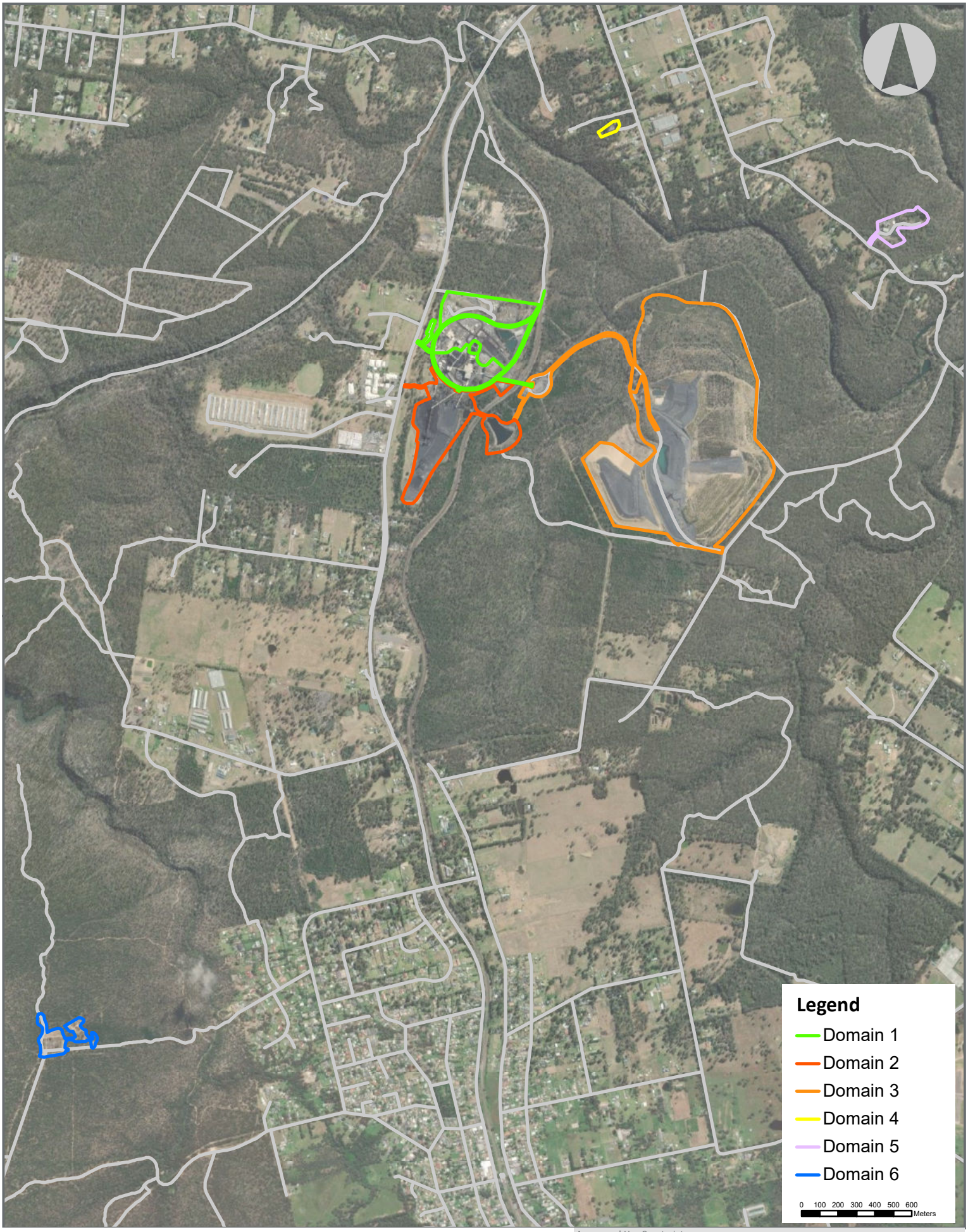
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APPENDIX 10

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Closure Domains

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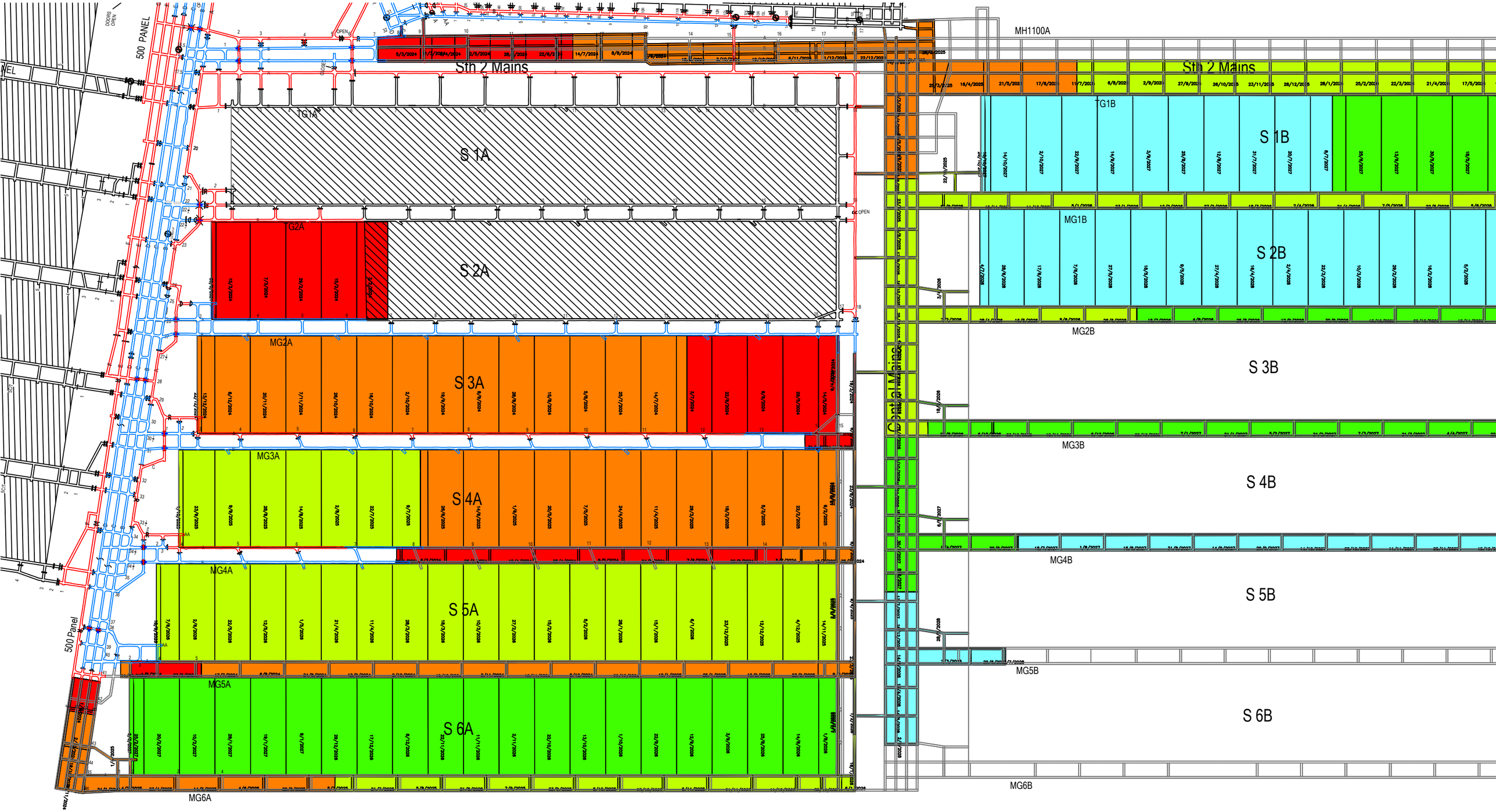
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APPENDIX 11

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500 PANEL
Sth 2 Mains
TG1A
S 1A
G2A
S 2A
MG2A
S 3A
MG3A
S 4A
MG4A
S 5A
MG5A
S 6A
MG6A
500 Panel
MH1100A
Sth 2 Mains
TG1B
S 1B
MG1B
S 2B
MG2B
S 3B
MG3B
S 4B
MG4B
S 5B
MG5B
S 6B
MG6B

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APPENDIX 12

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Stone Bin Data

Tonnes Trucked to the Reject Emplacement Area

Truck immediately returns after delivery to REA

Date	Time	Tonnes trucked
2/01/2023	7:38am	12
4/01/2023	7:01am	6
4/01/2023	4:17pm	4
5/01/2023	7:01am	7
5/01/2023	3:34pm	6
6/01/2023	7:02am	7
6/01/2023	3:23pm	6
7/01/2023	7:01am	9
7/01/2023	12:29pm	7
9/01/2023	7:16am	6
9/01/2023	3:23pm	3
10/01/2023	7:01am	6
10/01/2023	4:21pm	4
11/01/2023	7:00am	7
12/01/2023	7:05am	6
13/01/2023	1:36pm	4
17/01/2023	7:04am	11
19/01/2023	7:03am	7
20/01/2023	7:03am	5
21/01/2023	2:17pm	7
24/01/2023	4:24pm	6
25/01/2023	7:02am	7
25/01/2023	2:33pm	6
26/01/2023	8:27am	8
27/01/2023	7:03am	10
27/01/2023	12:31pm	2
28/01/2023	2:37pm	7
30/01/2023	7:49am	9
31/01/2023	2:37pm	6
1/02/2023	8:10am	5
2/02/2023	2:26pm	5
3/02/2023	7:01am	5
4/02/2023	11:52am	5
6/02/2023	7:06am	7
8/02/2023	11:57am	5
9/02/2023	11:51am	6
10/02/2023	7:05am	6
10/02/2023	11:30am	7
13/02/2023	3:07pm	9
15/02/2023	3:54pm	3
16/02/2023	1:15pm	5
17/02/2023	9:59am	4
18/02/2023	7:30am	5
20/02/2023	1:41pm	14
21/02/2023	3:37pm	7

Date	Time	Tonnes trucked
19/06/2023	1:55pm	39
19/06/2023	2:40pm	30
19/06/2023	3:15pm	38
19/06/2023	3:50pm	30
20/06/2023	7:00am	30
20/06/2023	8:20am	37
20/06/2023	10:45am	37
20/06/2023	11:10am	39
20/06/2023	12:20pm	30
20/06/2023	12:30pm	37
20/06/2023	12:50pm	38
20/06/2023	1:45pm	30
20/06/2023	2:14pm	39
20/06/2023	2:34pm	37
20/06/2023	2:50pm	30
20/06/2023	3:41pm	38
20/06/2023	4:00pm	38
21/06/2023	8:40am	40
21/06/2023	10:25am	40
21/06/2023	11:50am	38
21/06/2023	12:05pm	40
21/06/2023	1:40pm	37
21/06/2023	2:05pm	39
21/06/2023	3:15pm	37
21/06/2023	3:37pm	7
21/06/2023	3:45pm	39
22/06/2023	7:04am	10
22/06/2023	12:05pm	6
23/06/2023	7:19am	6
24/06/2023	7:51am	10
24/06/2023	2:38pm	3
27/06/2023	10:45am	12
28/06/2023	7:02am	7
28/06/2023	2:59pm	6
29/06/2023	8:27am	8
29/06/2023	11:59am	4
30/06/2023	7:02am	7
3/07/2023	5:55pm	11
4/07/2023	9:25am	6
4/07/2023	2:20pm	5
5/07/2023	7:10am	5
5/07/2023	5:50pm	4
6/07/2023	8:55am	4
6/07/2023	3:05pm	4
7/07/2023	11:55am	4

22/02/2023	7:04am	10
22/02/2023	12:05pm	6
23/02/2023	7:19am	6
24/02/2023	7:51am	10
24/02/2023	2:38pm	3
25/02/2023	7:01am	9
25/02/2023	3:57pm	6
27/02/2023	10:45am	12
28/02/2023	7:02am	7
28/02/2023	2:59pm	6
1/03/2023	8:27am	8
1/03/2023	11:59am	4
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3/03/2023	7:01am	7
8/03/2023	12:19pm	3
13/03/2023	7:37am	8
15/03/2023	7:05am	8
15/03/2023	10:32am	6
15/03/2023	4:05pm	2
16/03/2023	7:05am	5
16/03/2023	10:47am	9
16/03/2023	3:01pm	8
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20/03/2023	3:43pm	4
22/03/2023	7:25am	8
22/03/2023	1:25pm	2
23/03/2023	7:14am	5
24/03/2023	9:16am	6
25/03/2023	7:03am	8
25/03/2023	3:26pm	7
28/03/2023	2:01pm	4
29/03/2023	7:01am	6
30/03/2023	7:03am	7
31/03/2023	7:02am	5
3/04/2023	7:06am	8
6/04/2023	7:37am	8
7/04/2023	11:30am	8
8/04/2023	7:31am	7
8/04/2023	2:13pm	7
10/04/2023	7:20am	7
10/04/2023	1:20pm	6
11/04/2023	7:04am	6
11/04/2023	3:32pm	4
12/04/2023	7:31am	7
13/04/2023	8:18am	2
14/04/2023	7:09am	5
15/04/2023	7:04am	6
15/04/2023	10:41am	6
15/04/2023	4:56pm	7

10/07/2023	11:15am	7
10/07/2023	3:15pm	8
11/07/2023	7:10am	7
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12/07/2023	7:15am	5
14/07/2023	9:35am	11
14/07/2023	5:35pm	8
15/07/2023	2:45pm	10
17/07/2023	7:00am	7
17/07/2023	10:35am	6
17/07/2023	2:25pm	4
18/07/2023	7:05am	8
18/07/2023	10:00am	8
18/07/2023	1:40pm	8
18/07/2023	3:00pm	5
19/07/2023	7:10am	5
19/07/2023	1:25pm	7
22/07/2023	9:25am	5
22/07/2023	10:55am	6
26/07/2023	7:00am	6
26/07/2023	9:50am	7
26/07/2023	2:35pm	4
27/07/2023	5:50pm	18
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29/07/2023	1:20pm	2
29/07/2023	2:50pm	2
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23/08/2023	7:05am	8
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30/08/2023	1:00pm	3
1/09/2023	8:10am	6
5/09/2023	12:30pm	5
6/09/2023	2:40pm	7
7/09/2023	8:25am	6
8/09/2023	7:45am	9

17/04/2023	7:19am	6
18/04/2023	7:03am	5
18/04/2023	2:49pm	2
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20/04/2023	4:04pm	4
21/04/2023	10:50am	10
21/04/2023	01:11pm	4
22/04/2023	07:37am	6
27/04/2023	08:32am	5
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2/05/2023	10:15am	4
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5/05/2023	07:10am	5
5/05/2023	05:10pm	4
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6/05/2023	03:05pm	4
9/05/2023	03:20pm	6
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11/05/2023	07:00am	7
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12/05/2023	07:15am	5
16/05/2023	7:10am	5
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17/05/2023	2:25pm	4
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18/05/2023	10:00am	8
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22/05/2023	9:25am	5
22/05/2023	10:55am	6
23/05/2023	7:00am	5
23/05/2023	8:40am	6
23/05/2023	2:20pm	7
24/05/2023	7:20am	16
25/05/2023	8:10am	6
25/05/2023	3:30pm	5
26/05/2023	7:00am	10
26/05/2023	9:50am	7
26/05/2023	2:35pm	4
27/05/2023	5:50pm	18
29/05/2023	9:00am	8
29/05/2023	2:50pm	3
30/05/2023	7:00am	5
30/05/2023	9:05am	5
1/06/2023	8:10am	5
2/06/2023	2:26pm	5

8/09/2023	12:30pm	7
9/09/2023	9:35am	8
9/09/2023	2:40pm	5
11/09/2023	7:10am	8
11/09/2023	8:15am	5
11/09/2023	2:30pm	2
12/09/2023	8:20am	6
14/09/2023	8:50am	9
18/09/2023	8:35am	6
19/09/2023	8:05am	8
19/09/2023	2:30pm	5
20/09/2023	9:35am	9
20/09/2023	2:30pm	7
22/09/2023	8:50am	6
23/09/2023	3:20pm	8
28/09/2023	3:20pm	2
29/09/2023	2:10pm	6
2/10/2023	7:45am	13
3/10/2023	8:10am	5
5/10/2023	7:25am	8
5/10/2023	10:25am	5
6/10/2023	7:10am	9
6/10/2023	2:20pm	6
10/10/2023	8:10am	6
14/10/2023	2:30pm	5
16/10/2023	9:20am	12
17/10/2023	9:50am	8
17/10/2023	4:35pm	8
18/10/2023	7:10am	9
19/10/2023	7:00am	10
19/10/2023	11:05am	7
20/10/2023	7:00am	11
20/10/2023	10:50am	7
21/10/2023	11:25am	10
21/10/2023	2:25pm	11
21/10/2023	5:50pm	2
23/10/2023	11:04am	6
24/10/2023	7:50am	8
24/10/2023	2:45pm	3
25/10/2023	8:30am	8
25/10/2023	12:05pm	5
26/10/2023	7:00am	8
26/10/2023	8:10am	8
26/10/2023	3:20pm	10
27/10/2023	7:50am	8
27/10/2023	3:00pm	6
28/10/2023	8:10am	8
28/10/2023	4:45pm	10
31/10/2023	8:30am	7
31/10/2023	3:20pm	1

3/06/2023	7:01am	5
6/06/2023	7:06am	7
9/06/2023	11:51am	6
10/06/2023	7:05am	6
10/06/2023	11:30am	7
13/06/2023	10:30am	30
13/06/2023	2:10pm	30
13/06/2023	3:07pm	9
14/06/2023	7:00am	30
14/06/2023	7:20am	30
14/06/2023	8:55am	30
14/06/2023	10:20am	30
14/06/2023	11:50am	30
14/06/2023	1:25pm	30
14/06/2023	4:10pm	30
15/06/2023	7:00am	30
15/06/2023	9:30am	30
15/06/2023	10:50am	30
15/06/2023	12:20pm	30
15/06/2023	1:45pm	30
15/06/2023	3:30pm	30
15/06/2023	3:54pm	3
16/06/2023	7:00am	30
16/06/2023	7:45am	41
16/06/2023	8:40am	30
16/06/2023	9:50am	30
16/06/2023	10:00am	41
16/06/2023	10:45am	30
16/06/2023	11:15am	41
16/06/2023	11:45am	30
16/06/2023	12:30pm	41
16/06/2023	2:30pm	30
16/06/2023	2:45pm	41
16/06/2023	3:25pm	30
16/06/2023	1:15pm	5
17/06/2023	9:59am	4
19/06/2023	7:05am	30
19/06/2023	8:30am	30
19/06/2023	9:55am	30
19/06/2023	10:50am	30
19/06/2023	11:50am	39
19/06/2023	12:15pm	30
19/06/2023	1:20pm	30

1/11/2023	2:45pm	5
7/11/2023	10:40am	3
11/11/2023	8:40am	6
13/11/2023	8:40am	9
14/11/2023	3:45pm	2
16/11/2023	8:40am	5
17/11/2023	11:30am	5
18/11/2023	2:55pm	4
21/11/2023	7:35am	7
22/11/2023	9:55am	7
23/11/2023	8:25am	6
24/11/2023	7:30am	6
25/11/2023	3:35pm	6
27/11/2023	7:55am	10
27/11/2023	4:20pm	8
28/11/2023	4:45pm	8
1/12/2023	3:40pm	3
4/12/2023	11:05am	6
6/12/2023	10:50am	3
7/12/2023	2:40pm	6
8/12/2023	11:00am	6
9/12/2023	3:15pm	5
11/12/2023	12:00pm	7
12/12/2023	12:50pm	5
13/12/2023	10:48am	4
14/12/2023	3:00pm	8
15/12/2023	7:10am	6
16/12/2023	8:50am	6
16/12/2023	3:20pm	6
18/12/2023	10:20am	7
19/12/2023	3:30pm	5
20/12/2023	2:55pm	8
21/12/2023	2:35pm	9
22/12/2023	2:35pm	4
23/12/2023	12:05pm	7
28/12/2023	7:05am	9
28/12/2023	2:35pm	2
29/12/2023	7:14am	7
29/12/2023	4:30pm	8
30/12/2023	7:00am	10
30/12/2023	4:05pm	6

SIMEC

MEMBER OF GFG ALLIANCE

APPENDIX 13

simecgfg.com

Arrival Date/Time	Departure Date/Time	Total Tonnes Railed
2/01/2023 15:49	2/01/2023 17:16	3389
3/01/2023 3:32	3/01/2023 4:48	3357
3/01/2023 18:27	3/01/2023 19:56	3367
4/01/2023 15:02	4/01/2023 16:30	3409
6/01/2023 3:34	6/01/2023 4:55	3398
6/01/2023 14:44	6/01/2023 16:00	3378
7/01/2023 3:12	7/01/2023 4:29	3336
7/01/2023 15:40	7/01/2023 16:57	3396
10/01/2023 3:13	10/01/2023 5:03	3158
10/01/2023 15:01	10/01/2023 16:25	2958
10/01/2023 23:45	11/01/2023 1:24	3160
11/01/2023 16:35	11/01/2023 18:04	3214
12/01/2023 3:16	12/01/2023 4:52	3248
12/01/2023 6:28	12/01/2023 7:42	3256
12/01/2023 16:23	12/01/2023 17:45	3252
12/01/2023 20:34	12/01/2023 21:49	3327
13/01/2023 4:23	13/01/2023 5:47	3325
13/01/2023 15:29	13/01/2023 16:53	3328
13/01/2023 18:03	13/01/2023 19:31	3388
17/01/2023 3:46	17/01/2023 5:02	3334
17/01/2023 15:15	17/01/2023 16:32	3394
17/01/2023 18:31	17/01/2023 19:57	3289
18/01/2023 3:28	18/01/2023 4:59	3365
18/01/2023 15:05	18/01/2023 16:29	3392
19/01/2023 3:56	19/01/2023 5:13	3403
19/01/2023 13:45	19/01/2023 15:11	3331
19/01/2023 19:53	19/01/2023 21:17	3348
20/01/2023 3:58	20/01/2023 5:22	3329
20/01/2023 16:18	20/01/2023 17:41	3349
23/01/2023 2:30	23/01/2023 3:54	3425
23/01/2023 20:15	23/01/2023 21:27	3296
24/01/2023 15:51	24/01/2023 17:10	3352
25/01/2023 3:41	25/01/2023 5:08	3407
25/01/2023 16:25	25/01/2023 18:15	3349
26/01/2023 3:25	26/01/2023 4:47	3419
26/01/2023 14:40	26/01/2023 16:28	3410
27/01/2023 4:04	27/01/2023 5:25	3312
27/01/2023 16:22	27/01/2023 17:51	3386
28/01/2023 4:00	28/01/2023 5:32	3419
28/01/2023 13:51	28/01/2023 15:59	3390
29/01/2023 2:49	29/01/2023 4:10	3374
29/01/2023 15:10	29/01/2023 16:28	3406
30/01/2023 22:51	31/01/2023 1:21	3120
31/01/2023 14:48	31/01/2023 16:50	3309
1/02/2023 3:29	1/02/2023 4:55	3390
1/02/2023 17:28	1/02/2023 19:30	3110
1/02/2023 15:31	1/02/2023 16:51	3454
1/02/2023 21:04	1/02/2023 23:09	3094
2/02/2023 2:11	2/02/2023 3:35	3216
2/02/2023 3:57	2/02/2023 5:14	3303
2/02/2023 15:13	2/02/2023 16:31	3315
3/02/2023 3:44	3/02/2023 5:10	3322
3/02/2023 14:41	3/02/2023 16:01	3354
3/02/2023 18:07	3/02/2023 19:27	3319
3/02/2023 22:42	4/02/2023 0:28	3117
4/02/2023 3:16	4/02/2023 4:30	3350
4/02/2023 16:28	4/02/2023 18:10	3397
4/02/2023 19:21	4/02/2023 20:35	3355
5/02/2023 3:00	5/02/2023 4:28	3355
5/02/2023 14:46	5/02/2023 16:16	3336
5/02/2023 23:57	6/02/2023 9:39	3197
6/02/2023 23:46	7/02/2023 1:35	3041
7/02/2023 6:27	7/02/2023 8:39	3196
7/02/2023 22:49	8/02/2023 1:00	3161
8/02/2023 7:50	8/02/2023 10:08	3266
9/02/2023 1:30	9/02/2023 2:55	3275

Arrival Date/Time	Departure Date/Time	Total Tonnes Railed
14/07/2023 4:03	14/07/2023 5:19	3389
14/07/2023 15:49	14/07/2023 17:14	3414
17/07/2023 15:06	17/07/2023 16:36	3299
18/07/2023 15:39	18/07/2023 17:01	3350
20/07/2023 15:28	20/07/2023 16:40	3322
27/07/2023 16:02	27/07/2023 17:22	3294
28/07/2023 4:01	28/07/2023 6:21	3225
28/07/2023 17:31	28/07/2023 18:59	3356
30/07/2023 14:55	30/07/2023 17:02	3402
30/07/2023 19:02	30/07/2023 19:28	1 (dummy run)
4/08/2023 4:04	4/08/2023 5:25	3363
6/08/2023 15:26	6/08/2023 16:58	3344
7/08/2023 15:44	7/08/2023 17:06	3302
8/08/2023 5:43	8/08/2023 7:11	3433
8/08/2023 21:12	8/08/2023 22:31	3278
9/08/2023 16:31	9/08/2023 18:50	3341
10/08/2023 14:44	10/08/2023 16:07	3351
11/08/2023 3:41	11/08/2023 5:10	3277
11/08/2023 14:42	11/08/2023 16:13	3315
12/08/2023 1:59	12/08/2023 2:57	1978
12/08/2023 3:27	12/08/2023 5:00	3299
12/08/2023 11:49	12/08/2023 13:28	1628
12/08/2023 15:33	12/08/2023 17:22	1598
13/08/2023 21:53	14/08/2023 0:36	1625
14/08/2023 0:51	14/08/2023 2:14	2054
14/08/2023 7:25	14/08/2023 8:17	2046
14/08/2023 15:18	14/08/2023 16:56	3369
15/08/2023 3:59	15/08/2023 5:53	3406
15/08/2023 9:29	15/08/2023 10:43	2019
15/08/2023 18:37	15/08/2023 20:19	3325
16/08/2023 6:52	16/08/2023 8:33	3375
16/08/2023 15:44	16/08/2023 16:38	2046
16/08/2023 20:14	16/08/2023 21:33	3310
17/08/2023 1:16	17/08/2023 2:11	2024
17/08/2023 3:17	17/08/2023 4:40	3349
17/08/2023 17:40	17/08/2023 19:50	3313
18/08/2023 6:30	18/08/2023 7:52	3320
18/08/2023 9:47	18/08/2023 10:48	2001
18/08/2023 21:08	18/08/2023 22:46	3179
20/08/2023 1:09	20/08/2023 1:58	2015
20/08/2023 8:43	20/08/2023 9:36	2053
21/08/2023 17:56	21/08/2023 19:40	3198
22/08/2023 5:44	22/08/2023 7:07	3339
22/08/2023 9:38	22/08/2023 10:36	2007
22/08/2023 21:49	22/08/2023 23:08	3290
23/08/2023 8:16	23/08/2023 9:16	1986
23/08/2023 15:19	23/08/2023 16:51	3343
24/08/2023 4:29	24/08/2023 6:24	3342
24/08/2023 8:51	24/08/2023 9:49	1973
24/08/2023 18:07	24/08/2023 19:37	3317
25/08/2023 5:51	25/08/2023 7:46	3294
25/08/2023 9:51	25/08/2023 10:58	2005
25/08/2023 19:58	25/08/2023 21:54	3258
26/08/2023 7:46	26/08/2023 9:45	3316
27/08/2023 23:52	28/08/2023 0:57	1995
29/08/2023 2:03	29/08/2023 3:02	1989
30/08/2023 0:41	30/08/2023 1:55	1987
30/08/2023 3:15	30/08/2023 4:39	3321
30/08/2023 7:44	30/08/2023 9:00	2004
30/08/2023 14:56	30/08/2023 16:47	3357
30/08/2023 17:11	30/08/2023 19:34	1596
31/08/2023 1:51	31/08/2023 3:05	2002
31/08/2023 3:52	31/08/2023 5:23	3379
31/08/2023 8:20	31/08/2023 9:23	2041
31/08/2023 15:43	31/08/2023 17:14	3288
1/09/2023 1:15	1/09/2023 2:32	2006

9/02/2023 3:28	9/02/2023 4:51	3356
9/02/2023 18:43	9/02/2023 20:04	3295
10/02/2023 15:06	10/02/2023 16:25	3416
11/02/2023 4:08	11/02/2023 5:39	3369
12/02/2023 15:34	12/02/2023 17:01	3435
17/02/2023 3:11	17/02/2023 4:33	3195
17/02/2023 5:04	17/02/2023 8:04	3259
17/02/2023 15:47	17/02/2023 17:04	3388
17/02/2023 18:48	17/02/2023 20:08	3011
18/02/2023 3:29	18/02/2023 4:49	3327
18/02/2023 18:57	18/02/2023 20:56	3213
19/02/2023 13:50	19/02/2023 15:52	3321
19/02/2023 18:36	19/02/2023 20:31	3274
19/02/2023 23:49	20/02/2023 1:56	3270
20/02/2023 13:16	20/02/2023 15:30	3142
20/02/2023 15:50	20/02/2023 17:56	3378
21/02/2023 15:35	21/02/2023 17:45	3322
21/02/2023 13:04	21/02/2023 15:20	3094
22/02/2023 3:22	22/02/2023 4:39	3396
22/02/2023 14:08	22/02/2023 16:14	3125
22/02/2023 16:28	22/02/2023 17:46	3389
23/02/2023 3:32	23/02/2023 5:36	3428
23/02/2023 15:32	23/02/2023 17:43	3323
24/02/2023 3:26	24/02/2023 4:56	3376
24/02/2023 14:34	24/02/2023 16:33	3390
26/02/2023 8:07	26/02/2023 10:57	3412
27/02/2023 16:29	27/02/2023 18:32	3266
28/02/2023 3:28	28/02/2023 5:27	3390
28/02/2023 16:14	28/02/2023 18:24	3433
1/03/2023 3:23	1/03/2023 5:29	3420
1/03/2023 15:52	1/03/2023 18:00	3375
2/03/2023 3:18	2/03/2023 5:19	3451
2/03/2023 15:27	2/03/2023 17:43	3375
3/03/2023 3:16	3/03/2023 5:10	3289
3/03/2023 16:19	3/03/2023 18:30	3377
3/03/2023 18:44	3/03/2023 20:23	3167
4/03/2023 17:08	4/03/2023 19:07	3179
5/03/2023 17:31	6/03/2023 4:10	3280
6/03/2023 16:12	6/03/2023 17:50	3418
7/03/2023 3:23	7/03/2023 5:15	3277
7/03/2023 16:21	7/03/2023 18:21	3381
7/03/2023 22:15	8/03/2023 0:53	3162
8/03/2023 3:05	8/03/2023 5:06	3351
8/03/2023 12:42	8/03/2023 15:08	3121
8/03/2023 15:38	8/03/2023 17:40	3343
9/03/2023 3:53	9/03/2023 5:57	3286
9/03/2023 13:01	9/03/2023 14:59	3106
10/03/2023 1:46	10/03/2023 3:35	3378
9/03/2023 19:09	9/03/2023 20:59	3144
10/03/2023 6:30	10/03/2023 8:03	3239
10/03/2023 15:56	10/03/2023 18:02	3454
10/03/2023 18:32	10/03/2023 20:50	3169
11/03/2023 3:42	11/03/2023 6:07	3432
12/03/2023 3:11	12/03/2023 5:05	3392
12/03/2023 15:06	12/03/2023 17:12	3419
13/03/2023 3:12	13/03/2023 5:08	3347
14/03/2023 3:09	14/03/2023 5:08	3366
14/03/2023 6:14	14/03/2023 7:51	2126
14/03/2023 15:11	14/03/2023 16:53	3267
14/03/2023 18:06	14/03/2023 20:31	3152
15/03/2023 3:22	15/03/2023 5:31	3334
15/03/2023 14:13	15/03/2023 16:33	3115
15/03/2023 17:40	15/03/2023 19:47	3483
16/03/2023 3:09	16/03/2023 5:27	3399
16/03/2023 16:43	16/03/2023 18:51	3321
16/03/2023 22:55	17/03/2023 1:13	3226
17/03/2023 3:08	17/03/2023 5:08	3332

1/09/2023 3:41	1/09/2023 6:16	3252
1/09/2023 18:40	1/09/2023 20:12	3165
2/09/2023 19:41	2/09/2023 21:36	3346
2/09/2023 6:44	2/09/2023 8:15	3335
4/09/2023 18:31	4/09/2023 20:23	3172
5/09/2023 5:31	5/09/2023 8:07	3332
5/09/2023 17:45	5/09/2023 19:55	3301
6/09/2023 6:16	6/09/2023 8:24	3295
6/09/2023 17:48	6/09/2023 19:17	3194
7/09/2023 14:59	7/09/2023 16:35	3333
8/09/2023 3:18	8/09/2023 4:52	3331
8/09/2023 15:03	8/09/2023 16:52	3253
9/09/2023 4:34	9/09/2023 6:40	3308
11/09/2023 15:56	11/09/2023 17:55	3313
11/09/2023 18:25	12/09/2023 1:35	3319
12/09/2023 9:50	12/09/2023 11:46	3343
12/09/2023 13:46	12/09/2023 17:12	3230
12/09/2023 17:31	12/09/2023 19:39	3309
12/09/2023 20:27	13/09/2023 9:19	1315
13/09/2023 14:08	13/09/2023 16:02	1893
13/09/2023 4:32	13/09/2023 6:12	3249
13/09/2023 6:41	13/09/2023 7:59	3306
13/09/2023 21:45	13/09/2023 23:06	3269
14/09/2023 3:05	14/09/2023 4:43	3246
14/09/2023 15:07	14/09/2023 16:25	3319
15/09/2023 4:53	15/09/2023 6:16	3224
15/09/2023 3:18	15/09/2023 4:53	3228
15/09/2023 16:05	15/09/2023 17:47	3336
16/09/2023 17:05	16/09/2023 20:06	3198
17/09/2023 3:24	17/09/2023 6:37	3248
18/09/2023 16:59	18/09/2023 19:36	3268
19/09/2023 15:39	19/09/2023 17:51	3337
20/09/2023 3:58	20/09/2023 5:55	3284
20/09/2023 17:40	20/09/2023 19:46	3346
21/09/2023 5:53	21/09/2023 8:54	3263
21/09/2023 19:37	21/09/2023 22:24	3304
22/09/2023 14:41	22/09/2023 18:18	3281
22/09/2023 18:21	22/09/2023 19:55	3200
26/09/2023 3:32	26/09/2023 6:24	3310
26/09/2023 20:18	26/09/2023 22:14	3185
27/09/2023 14:51	27/09/2023 16:14	3218
28/09/2023 6:54	28/09/2023 8:38	3169
28/09/2023 20:19	28/09/2023 21:48	3253
29/09/2023 20:24	29/09/2023 21:55	3241
30/09/2023 14:53	30/09/2023 16:14	3355
30/09/2023 17:09	30/09/2023 19:37	3249
1/10/2023 6:47	1/10/2023 8:07	3269
2/10/2023 5:57	2/10/2023 7:12	3174
2/10/2023 14:52	2/10/2023 16:17	3326
2/10/2023 18:35	2/10/2023 20:01	3276
3/10/2023 3:51	3/10/2023 5:37	3245
4/10/2023 14:50	4/10/2023 16:08	3306
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6/10/2023 3:00	6/10/2023 4:24	3228
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