



EPL 21807 Monitoring Report March 2024

SMWSASSM-PLD-1NL-NL000-EV-RPT-000010

Parklife Metro D&C

Document Approval

Revision	Author	Date	Comments	Reviewed by	Approved by
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Signature	
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1 Introduction

1.1 Background

Sydney Metro is Australia's biggest public transport program comprising four main packages of work including Metro North-West Line, Sydney Metro City and Southwest, Sydney Metro West, and Sydney Metro Western Sydney Airport (SMWSA, the Project). The SMWSA will become the transport spine for Greater Western Sydney, connecting communities and travellers with the new Western Sydney International (Nancy-Bird Walton) Airport (referred to as Western Sydney International) and the growing region.

The Project involves the construction and operation of a new metro railway line around 23km in length that extends from the existing Sydney Trains suburban T1 Western Line at St Marys in the north to the new Aerotropolis Station in the south at Bringelly. The alignment includes a combination of tunnel, surface, bridges and viaduct sections, and comprises of six new metro stations between St Marys and the Aerotropolis Core precinct, as well as a stabling and maintenance facility and operational control centre to support the operation of the new metro railway line (see Figure 1).

1.1.1 Stations, Systems, Trains, Operations and Maintenance works

Parklife Metro D&C has been engaged to deliver the Stations, Systems, Trains, Operations and Maintenance (SSTOM) works. The scope of the Stations, Systems, Trains, Operations and Maintenance (SSTOM) package comprises:

- construction of the six new stations
- installation of tracks, signalling, mechanical and electrical systems
- supplying new driverless trains
- construction of stabling and maintenance facility at Orchard Hills
- operation and maintenance of the line and its assets, and
- handback of operations and maintenance at the end of term.

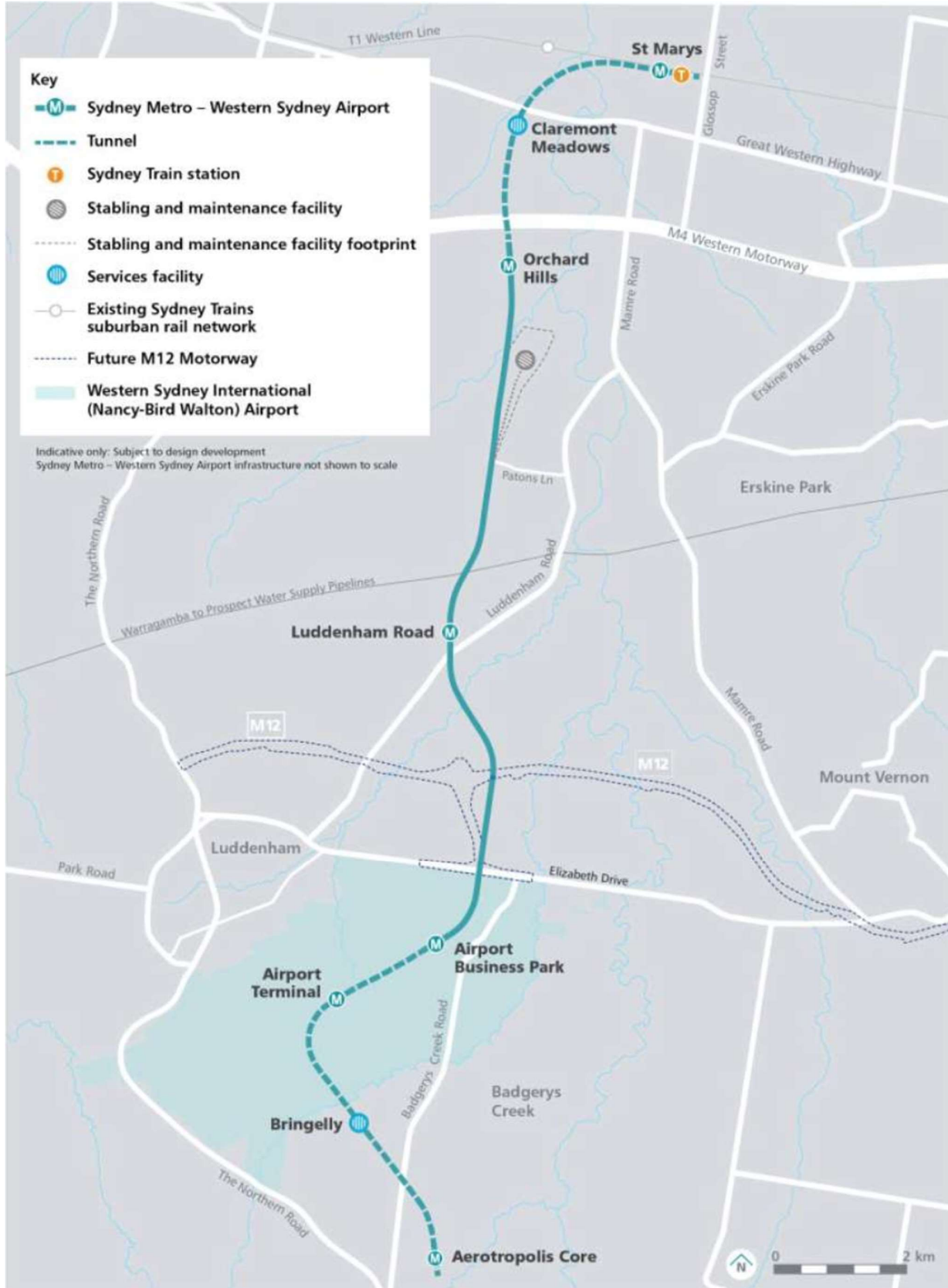


FIGURE 1 OVERVIEW OF SMWSA PROJECT

1.2 Scope of this report

Parklife Metro D&C have been issued an Environment Protection Licence (EPL No. 21807) from the NSW Environment Protection Authority (EPA) for the SMWSA SSTOM Works. The EPL applies to the works approved under the Infrastructure Approval SSI-10051 associated with the delivery of the off-airport portion of the SMWSA SSTOM Works, as detailed in Table 1. This EPL Monitoring Report provides the results of all pollution monitoring required to be measured or monitored by the licensee of EPL 21807 within the reporting period as required by Section 66 of the *Protection of the Environment Operations Act 1997* (POEO Act) and with reference to EPA Publication *Requirements for publishing pollution monitoring data* (Environment Protection Authority, 2013).

TABLE 1 LICENCE DETAILS

Licence Details	
Number	21807
Copy of Licence	Environment & Heritage POEO Licences, Application and Notice Detail (nsw.gov.au)
Anniversary Date	20-July
Licensee	WEBUILD S.P.A
Premises	SYDNEY METRO WESTERN SYDNEY AIRPORT SSTOM PACKAGE FOOTPRINT SYDNEY METRO WESTERN SYDNEY AIRPORT-STATIONS, SYSTEMS, TRAINS, OPERATION & MAINTENANCE PACKAGE
Scheduled Activity	Railway activities – railway infrastructure construction

2 Reporting requirements

Under the POEO Act, holders of environment protection licences (licensees) must publish or make pollution monitoring data available to members of the public.

The POEO Act Section 66 requires:

“Conditions requiring monitoring, certification or provision of information, and related offences

(1) Monitoring The conditions of a licence may require—

(a) monitoring by the holder of the licence of the activity or work authorised, required or controlled by the licence, including with respect to—

(i) the operation or maintenance of premises or plant, and

(ii) discharges from premises, and

(iii) relevant ambient conditions prevailing on or outside premises, and

(iv) anything required by the conditions of the licence, and

(b) the provision and maintenance of appropriate measuring and recording devices for the purposes of that monitoring, and

(c) the analysis, reporting and retention of monitoring data.

(2) False or misleading information A holder of a licence who supplies information, or on whose behalf information is supplied, to the appropriate regulatory authority under the conditions of the licence is guilty of an offence if the information is false or misleading in a material respect.”

The primary objective of the EPL Monitoring Report is that members of the public have access to the results of all pollution monitoring (which a licence specifies must be carried out) in a way that is meaningful to them.

The monitoring data that must be published and/or made available on request is any data that is obtained as a result of a monitoring condition on a licence that relates to air, water (surface or groundwater), noise and/or land pollution. The data to be published or provided is limited to data that relates to pollutants generated, discharged or emitted from the licensed premises.

The data is provided in tabular format that is easy for the general public to understand. Tables definitively display raw data values, while graphs and charts are useful for overviews and visualisation of long-term trends. Raw data will be provided upon request.

This EPL Monitoring Report will provide explanations as to why data may appear to be missing, which may be due to there being no discharge or the level of pollutant being below the detection level of the measurement instrument.

It's possible from time to time that incorrect data may get published in good faith. As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

Table 2 provides a summary of the monitoring requirements of EPL 21807.

TABLE 2 EPL 21807 MONITORING REQUIREMENTS

EPL Condition	Requirement	Report Reference
Weather		
M5.1	<p>The licensee must monitor and record temperature, wind direction, wind velocity and rainfall at either the project weather station, or through analysis of equivalent weather information obtained from the Australian Bureau of Meteorology. Monitoring must:</p> <ul style="list-style-type: none"> a) be representative of the premises; b) commence prior to any works that may cause sediment to leave the premises; and c) continue to be operated until soil disturbance activities cease at the premises and the site has been stabilised. 	Section 3.1 Appendix A
Noise		
L5.9	<p>Works outside of standard construction hours – Regulatory Requirements</p> <p>In undertaking any works and activities outside of standard construction hours under condition L5.8, the licensee must comply with the following:</p> <ul style="list-style-type: none"> a) Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC, 2009) that is to include: <ul style="list-style-type: none"> i. a description of the proposed works and activities outside of standard construction hours; ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and iii. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts. b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.9(a)(iii). 	Section 3.2 Appendix B
L5.10	<p>St Marys Station - Out of Hours Concrete Works Concrete works associated with station box construction at St Marys station, including concrete pouring, finishing and cleaning, are permitted to be undertaken outside of standard construction hours specified in L5.1 provided that:</p> <ul style="list-style-type: none"> a) Works are required to achieve compliance with overarching project technical requirements, b) Works had already begun within a reasonable time prior to end of standard construction hours, c) Out of Hours (OOH) works are undertaken from 6pm to 10pm, Monday to Friday and 1pm to 4pm on Saturday, d) Station box base slab and wall concreting activities (e.g. using concrete pump, vibrators, concrete trucks, etc) must be completed before 9pm on Monday to Friday, e) Station box base slab and wall concreting activities are permitted to occur up to 9pm Monday to Friday a total of 12 times, f) All other concreting activities (e.g. using concrete pump, vibrators, concrete trucks, etc) must be completed before 8pm on Monday to Friday, g) Concrete finishing works (e.g. power floats, hand tools) must be completed before 10pm on Monday to Friday, h) The licensee is required to undertake noise monitoring in accordance with condition L5.9(b), i) The licensee is required to provide the EPA with a Noise Monitoring Report within 30 days of the end of each month in which OOH concrete works occurred, j) Works are permitted to occur until 8 May 2024. 	Section 3.2 Appendix B

M4.4	The licensee must undertake noise and vibration monitoring as directed by an authorised officer of the EPA. Where the monitoring is requested to take place on private land (for example a residential property) the licensee must request permission to access the premises in advance and keep a record of permission requests and responses. If a licensee is unable to obtain permission, the licensee must undertake the monitoring at an indicative location where possible and they must provide the response (including any nil response) to the EPA.	Not triggered																
<p>Community Agreements</p> <p>The licensee may work outside standard construction hours (as defined in L5.1) in circumstances other than those permitted under conditions L5.3, L5.4, or any other condition of the licence, subject to the condition outlined Section E1.</p>																		
E1.4	A noise validation monitoring plan must be submitted to the EPA for approval as part of the community agreement documentation prior to any OOHW occurring.	Not triggered																
E1.5	<p>Validation monitoring must be undertaken for any OOHW that are the approved under condition E1.1 and must:</p> <p>a) be undertaken in accordance with the monitoring plan prepared under condition E1.4;</p> <p>b) be performed by a Competent Person;</p> <p>c) be performed on at least the first 2 occasions (day, evening, nights) where OOHW will be undertaken and are likely to impact Noise Sensitive Receivers;</p> <p>d) be performed on any other occasion (day, evening, night) where the nature of the works is likely to cause greater noise impacts than the first 2 occasions;</p> <p>e) be representative of the impacts in terms of monitoring locations, time and duration of measurements; and</p> <p>f) be recorded and provided to an EPA officer upon request.</p>	Not triggered																
<p>Water</p>																		
P1.1	<p>The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.</p> <table border="1" data-bbox="293 1104 1229 1501"> <thead> <tr> <th data-bbox="293 1104 487 1150">EPA Identification no</th> <th data-bbox="487 1104 716 1150">Type of Monitoring Point</th> <th data-bbox="716 1104 927 1150">Type of Discharge Point</th> <th data-bbox="927 1104 1229 1150">Location Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="293 1150 487 1268">1</td> <td data-bbox="487 1150 716 1268">Discharge and Monitoring</td> <td data-bbox="716 1150 927 1268">Discharge and Monitoring</td> <td data-bbox="927 1150 1229 1268">The outlet of the sediment basin on the Aerotropolis site discharging to Thompson Creek referred to in Condition P1.2</td> </tr> <tr> <td data-bbox="293 1268 487 1360">2</td> <td data-bbox="487 1268 716 1360">Discharge and Monitoring</td> <td data-bbox="716 1268 927 1360">Discharge and Monitoring</td> <td data-bbox="927 1268 1229 1360">The outlet of the water treatment plant on the St Marys site discharging to South Creek</td> </tr> <tr> <td data-bbox="293 1360 487 1501">3</td> <td data-bbox="487 1360 716 1501">Discharge and Monitoring</td> <td data-bbox="716 1360 927 1501">Discharge and Monitoring</td> <td data-bbox="927 1360 1229 1501">The outlet of the sediment basin on the Orchard Hills site discharging to an Unnamed Creek (tributary of South Creek) referred to in Condition P1.2</td> </tr> </tbody> </table>	EPA Identification no	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Discharge and Monitoring	Discharge and Monitoring	The outlet of the sediment basin on the Aerotropolis site discharging to Thompson Creek referred to in Condition P1.2	2	Discharge and Monitoring	Discharge and Monitoring	The outlet of the water treatment plant on the St Marys site discharging to South Creek	3	Discharge and Monitoring	Discharge and Monitoring	The outlet of the sediment basin on the Orchard Hills site discharging to an Unnamed Creek (tributary of South Creek) referred to in Condition P1.2	Section 3.3.2 Appendix C
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M2.2	<p>Water and/or Land Monitoring Requirements POINT 1 and 3</p> <table border="1" data-bbox="293 285 1230 407"> <thead> <tr> <th>Pollutant</th> <th>Unit of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td>Special Frequency 1</td> <td>Visual inspection</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Special Frequency 1</td> <td>Probe</td> </tr> <tr> <td>Turbidity</td> <td>nephelometric turbidity units</td> <td>Special Frequency 1</td> <td>Probe</td> </tr> </tbody> </table> <p>POINT 2</p> <table border="1" data-bbox="293 457 1230 995"> <thead> <tr> <th>Pollutant</th> <th>Units of measure</th> <th>Frequency</th> <th>Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Aluminium</td> <td>micrograms per litre</td> <td>Daily during any Grab sample discharge</td> <td>Grab sample</td> </tr> <tr> <td>Ammonia</td> <td>micrograms per litre</td> <td>Daily during any Grab sample discharge</td> <td>Grab sample</td> </tr> <tr> <td>Chromium (VI) Compounds</td> <td>micrograms per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> <tr> <td>Copper</td> <td>micrograms per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> <tr> <td>Electrical conductivity</td> <td>microsiemens per centimetre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> <tr> <td>Nitrogen (total)</td> <td>micrograms per litre</td> <td>Daily during any discharge</td> <td>Grab sample discharge</td> </tr> <tr> <td>Oil and Grease</td> <td>Visible</td> <td>Daily during any discharge</td> <td>Visual Inspection</td> </tr> <tr> <td>pH</td> <td>pH</td> <td>Daily during any discharge</td> <td>Probe</td> </tr> <tr> <td>Phosphorus (total)</td> <td>micrograms per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> <tr> <td>TSS</td> <td>milligrams per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> <tr> <td>Zinc</td> <td>micrograms per litre</td> <td>Daily during any discharge</td> <td>Grab sample</td> </tr> </tbody> </table>	Pollutant	Unit of measure	Frequency	Sampling Method	Oil and Grease	Visible	Special Frequency 1	Visual inspection	pH	pH	Special Frequency 1	Probe	Turbidity	nephelometric turbidity units	Special Frequency 1	Probe	Pollutant	Units of measure	Frequency	Sampling Method	Aluminium	micrograms per litre	Daily during any Grab sample discharge	Grab sample	Ammonia	micrograms per litre	Daily during any Grab sample discharge	Grab sample	Chromium (VI) Compounds	micrograms per litre	Daily during any discharge	Grab sample	Copper	micrograms per litre	Daily during any discharge	Grab sample	Electrical conductivity	microsiemens per centimetre	Daily during any discharge	Grab sample	Nitrogen (total)	micrograms per litre	Daily during any discharge	Grab sample discharge	Oil and Grease	Visible	Daily during any discharge	Visual Inspection	pH	pH	Daily during any discharge	Probe	Phosphorus (total)	micrograms per litre	Daily during any discharge	Grab sample	TSS	milligrams per litre	Daily during any discharge	Grab sample	Zinc	micrograms per litre	Daily during any discharge	Grab sample	Section 3.3.2 Appendix C
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M2.3	<p>For the purposes of Condition M2.2 and the Table thereto, 'Special Frequency 1' means:</p> <p>a) less than 24 hours prior to a controlled discharge and daily for any continued controlled discharge, when it is safe to do so; and</p> <p>b) when rainfall causes a discharge from a sediment basin which has not been emptied within the design management period following cessation of a rainfall event, when it is safe to do so.</p>	Section 3.3.2 Appendix C																																																																
E2.1	<p>The licensee must undertake surface water monitoring of receiving waterways at locations upstream, downstream and adjacent to discharge point 2 identified in Condition P1.1 at fortnightly intervals and at least once during each discharge event. This monitoring must be undertaken for a minimum of 3 months from the date that point 2 was added to the licence.</p> <p>Surface water monitoring results must include:</p> <p>a) quality and quantity of all parameters that are identified in the table in M2.2 for discharge point 2; and</p> <p>b) results must be submitted to the EPA no more than 2 weeks after each monitoring event has occurred for a minimum of 3 months from the date that point 2 was added to the licence</p>	Section 3.3.1 Appendix D																																																																
E3.1	<p>Water Treatment Plant (WTP) Performance Reporting</p> <p>A) The licensee must undertake water quality sampling of all discharges from the WTP (as identified as Point 2 under condition P1.1) and submit to the EPA a WTP Performance Report within 10 business days of each sample result being taken. Sampling must be undertaken:</p> <p>i) daily during discharge</p> <p>ii) as per condition M2.2, following this sampling frequency or as directed by the EPA.</p>	Not Triggered																																																																

Additional Monitoring Conditions		
M4.5	<p>The licensee must undertake monitoring, sampling, video recording and/or take photographs:</p> <ul style="list-style-type: none"> a) if the EPA or licensee reasonably suspects that an event has occurred at the premises or in connection with the carrying out of the activities that has caused, is causing, is likely to cause or has the potential to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies); b) as soon as practicable; and c) as directed by an authorised officer. 	Not triggered

3 Monitoring

This section presents summaries of the monitoring completed in the reporting period from 1 March 2024 to 31 March 2024.

Detailed monitoring results for each program are presented in the Appendices.

3.1 Weather Monitoring

Meteorological observations were captured using the Bureau of Meteorology Weather Stations - Badgerys Creek (Station 067108). Meteorological data for the month of March can be found within Appendix A.

The total rainfall for this reporting period was 16.4 mm with 2 days exceeding 1mm of rain, 0 days exceeding 10mm of rain and 0 days exceeding 20mm of rain.

During the reporting period, 23 days recorded wind gusts of greater than 25km/hr, 0 days where the maximum wind gust recorded was greater than 50 km/h and 0 days where the maximum wind gust was greater than 60 km/hr. Detailed weather observation records for the reporting period are presented in Appendix A.

This information is used daily on site to assess daily activities and consider mitigation measures as required.

TABLE 3 WEATHER SUMMARY AND TRIGGER WEATHER EVENTS FOR REPORTING PERIOD

Weather Event	Observation
Minimum temperature	11.9°C
Maximum temperature	35.7°C
Total rainfall	16.4mm
Number of days with rain (>1mm)	2
Number of days with rain (>10mm)	0
Number of days with rain (>20mm)	0
Number of days with >25km/h wind gust	23
Number of days with >50km/h wind gust	0
Number of days with >60km/h wind gust	0

3.2 Noise and Vibration Monitoring

Noise monitoring is required under Conditions L5.9 and L5.10 to validate noise predications for work undertaken outside of standard construction hours in accordance with the construction noise and vibration assessment and monitoring plan. Table 4 provides a summary of noise monitoring events during the reporting period. Detailed results and comments are presented in Appendix B.

TABLE 4 SUMMARY OF NOISE MONITORING FOR REPORTING PERIOD

Date	Monitoring Location	Attended / Continuous	Description
14/03/2024	3 Station St, St Marys NSW 2760	Attended	Quiet street opposite east of PLM boundary
16/03/2024	31 Phillip St, St Marys NSW 2760	Attended	Busy street opposite east of PLM site
16/03/2024	31 Phillip St, St Marys NSW 2760	Attended	Busy street opposite east of PLM site
20/03/2024	34-36 Phillip St, St Marys NSW 2760	Attended	Busy street opposite south of PLM site
21/03/2024	28 Phillip St, St Marys NSW 2760	Attended	Busy street south-east of PLM site

3.3 Water Monitoring

3.3.1 Surface water monitoring

As per Condition E2.1 fortnightly sampling is required for at least 3 months from the date point 2 was added to the licence and at least once during each discharge event. The samples are taken at the receiving waterway for locations upstream, downstream and adjacent to SSTOM-002 discharge point. The surface water quality results are included in Appendix D.

3.3.2 Discharge to water

The discharge of water from sediment basins occurred at the following discharging monitoring points/locations during this reporting period:

- SSTOM-001.

The EPL discharge criteria apply to the sediment basins identified in condition L2.4 of the approved EPL 21807.

Basins and discharge points are summarised in Table 5. Discharge criteria and monitoring results included in Appendix C.

TABLE 5 MONITORING/DISCHARGE POINTS AND AREAS

ID	Construction Status	EPA ID	Easting	Northing	Description of location of discharge point	Catchment name	Name of nearest waters	Direct discharge to waters	Date added to EPL
SSTOM-001	Active	1	290807.84	6243844.20	The outlet of the sediment basin on the Aerotropolis site discharging to Thompson Creek	South Creek	Thompsons Creek	No	14/11/2023
SSTOM-002	Active	2	294041.62	6261905.98	The outlet of the water treatment plant on the St Marys site at former Plaza	South Creek	South Creek	No	15/12/2023
SSTOM-003	Active	3	291819.86	6258565.85	The outlet of the sediment basin on the Orchard Hills site discharging to an Unnamed Creek (tributary of South Creek)	South Creek	Blaxland Creek	No	14/2/2024

3.4 Correction Log

It is possible from time to time for incorrect data to get published in good faith.

As soon as practicable after the licensee becomes aware that the published pollution monitoring data is incorrect or misleading, licensees must then publish a correction log to correct this data that is incorrect or misleading.

There are no matters included in the correction log for this reporting period.

Appendices

Appendix A Weather Observations

TABLE 6 MONTHLY WEATHER OBSERVATION TABLE

Date	Temperature		Rainfall	Wind Observations			Morning (9am) Weather Observation					Afternoon (3pm) Weather Observation				
	Minimum (°C)	Maximum (°C)	In the 24 hours to 9am (mm)	Direction of maximum wind gust	Speed of maximum wind gust (km/h)	Time of maximum wind gust	Temperature (°C)	9am relative humidity (%)	Wind direction	Wind speed (km/h)	9am MSL pressure (hPa)	Temperature (°C)	9am relative humidity (%)	Wind direction	Wind speed (km/h)	3pm MSL pressure (hPa)
1/03/2024	20.7	30.5	0.4	SSW	31	3:28	22.1	86	ESE	7	1016.2	29.3	64	N	9	1012.6
2/03/2024	21.9	25.6	0	SE	24	10:38	24.9	88	S	4	1011.7	23.6	82	SE	7	1013.8
3/03/2024	16.8	32.7	0	SSW	33	17:14	21	85	WSW	6	1014.3	30.6	47	S	6	1010.1
4/03/2024	18.2	24.6	0	SSE	28	4:34	19.4	61	S	9	1022.2	22.6	54	SE	13	1022.3
5/03/2024	14.8	27.3	0	NNE	24	13:06	19.6	66	SW	4	1024.2	26.2	45	NE	9	1020.6
6/03/2024	14.5	32.2	0	NNE	22	12:47	19.6	81	SW	4	1021.1	30.4	45	NNE	9	1017
7/03/2024	17.9	31.9	0	SE	31	13:37	23.6	78	ESE	6	1021.2	29.1	57	SE	17	1021
8/03/2024	20.4	31.7	0	E	30	15:57	24.6	72	WSW	2	1025.3	29.1	52	ENE	11	1022.8
9/03/2024	16.1	31.3	0	NE	31	17:18	21.6	80		Calm	1026.6	29.2	46	NNE	11	1024
10/03/2024	15.9	31.4	0	ENE	37	15:58	22.2	82		Calm	1028.1	31.3	38	ENE	7	1025.3
11/03/2024	16.3	30.9	0	NE	30	9:38	22.4	80		Calm	1027.3	28.6	44	NE	11	1023.1
12/03/2024	14.5	35.7	0	ESE	33	16:02	19.7	83	W	2	1019.6	34.6	33	SSW	19	1014.4
13/03/2024	16.4	30.4	0	E	26	15:00	21.4	76	WSW	4	1017.8	28.9	50	E	9	1014.5
14/03/2024	15.4	35	0	S	44	20:54	20.5	82		Calm	1010.9	34.5	32	ENE	9	1007.5
15/03/2024	16.2	24.9	3.4	ESE	33	14:50	18.6	82	SW	11	1020.3	24.1	53	SE	17	1020.1
16/03/2024	14.5	25	0.8	E	30	10:32	18.2	76	SW	11	1023	24.1	60	ESE	15	1019.3
17/03/2024	16.6	23	9.6	SE	22	15:13	18	100	SE	4	1017.8	20.6	80	E	7	1014.9
18/03/2024	16.5	27.1	0.2	E	26	19:42	18.3	100	E	2	1015.7	24.7	64	WSW	4	1014.3
19/03/2024	17.2	29.6	0	N	22	15:34	21.6	85		Calm	1017.3	28.5	55	N	9	1014.5
20/03/2024	17.9	26.4	0.8	SSE	41	16:48	20.4	100		Calm	1014.6	25.6	59	SSW	15	1016
21/03/2024	11.9	23.2	0.8	S	35	1:33	15.9	59	SW	15	1029.4	20.9	51	SE	7	1026.9
22/03/2024	13.1	24.7	0	NNE	22	15:58	17.2	77	SW	6	1026.3	22.7	60	NNW	7	1023.3
23/03/2024	13.4	27.9	0	ESE	28	14:56	16.7	96	SW	6	1023.7	27.5	44	NE	6	1020.7
24/03/2024	16.7	28.8	0.4	ESE	24	17:37	19.5	91		Calm	1021.1	26.7	51	NNE	9	1017.6
25/03/2024	12.7	31.4	0	WSW	28	13:14	17	96		Calm	1019.6	30.1	21	SSW	9	1016
26/03/2024	12.4	30.6	0	ESE	33	16:50	18.7	62	WSW	4	1020.7	29.8	41	NNE	4	1017.6
27/03/2024	16.9	27.9	0	E	28	16:25	21	76	SW	6	1024.4	27.2	49	E	7	1022.2
28/03/2024	17.1	27.4	0	SE	26	15:54	20.1	82	SW	7	1025.1	26.6	57	ENE	6	1023.9
29/03/2024	15.7	28.9	0	ENE	26	14:31	20.4	79	SW	7	1028.1	27.3	43	ENE	7	1024.9
30/03/2024	12.4	31	0	E	26	16:26	16.4	95		Calm	1026.5	29.9	39	ESE	7	1022.4
31/03/2024	13.7	29.4	0	NE	22	12:39	17.7	100		Calm	1024.2	27.1	39	NNE	7	1020

Appendix B Noise Monitoring

TABLE 7 ST MARYS NOISE MONITORING

Date	Time	Construction Activity	Activity Location	Monitoring Location	NML (dBA)	Predicted (dBA)	Recorded LAeq(15min) (dBA)	LAmx	Exceedance of Predicted (dBA)	Exceedance of Predicted	Comments
14/03/2024	4:53am	OOHW delivery	SSTOM St Marys	3 Station St, St Marys NSW 2760	41	58	47.5	53.3	-13.5	No	Compliant.
16/03/2024	3:12am	OOHW demobilisation	SSTOM St Marys	31 Phillip St, St Marys NSW 2760	41	58	60.4	82.2	1.6	Yes	Background noise primarily consisted of public vehicles. The peak dB(A) was generated from the piling rig float passing monitoring location however dominant noise source was non-construction traffic. Compliant.
16/03/2024	3:50am	OOHW demobilisation	SSTOM St Marys	31 Phillip St, St Marys NSW 2760	41	58	62.7	81.8	5	Yes	Background noise primarily consisted of public vehicles. The peak dB(A) was generated from the crane float passing monitoring location however dominant noise source was non-construction traffic. Compliant.
20/03/2024	2:30am	OOHW demobilisation	SSTOM St Marys	34-36 Phillip St, St Marys NSW 2760	41	58	54.8	74.1	-3.2	No	Background noise primarily consisted of public vehicles. The peak dB(A) was generated from the crane and piling rig float passing monitoring location however dominant noise source was non-construction traffic. Compliant.
21/03/2024	2:21am	OOHW demobilisation	SSTOM St Marys	28 Phillip St, St Marys NSW 2760	41	49	49	79.9	11.1	Yes	Background noise primarily consisted of public vehicles. The peak dB(A) was generated from the crane float passing monitoring location however dominant noise source was non-construction traffic. Compliant.

Appendix C Discharge to water

TABLE 8 WATER DISCHARGE TABLE

Discharge Monitoring Point ID	Type of Monitoring Point	Type of Discharge Point	Date	Discharge Permit No.	Oil and Grease (Visual inspection)	pH (6.5 - 8.5)	Turbidity (50 NTU)
SSTOM-001	Sediment Basin	Discharge into stabilised spillway	01/03/2024	PMJV-ENV-DWP-11	Not visible	8.05	45.2
SSTOM-001	Sediment Basin	Discharge into stabilised spillway	12/03/2024	PMJV-ENV-DWP-12	Not visible	8.27	42.4

Appendix D Surface Water Monitoring

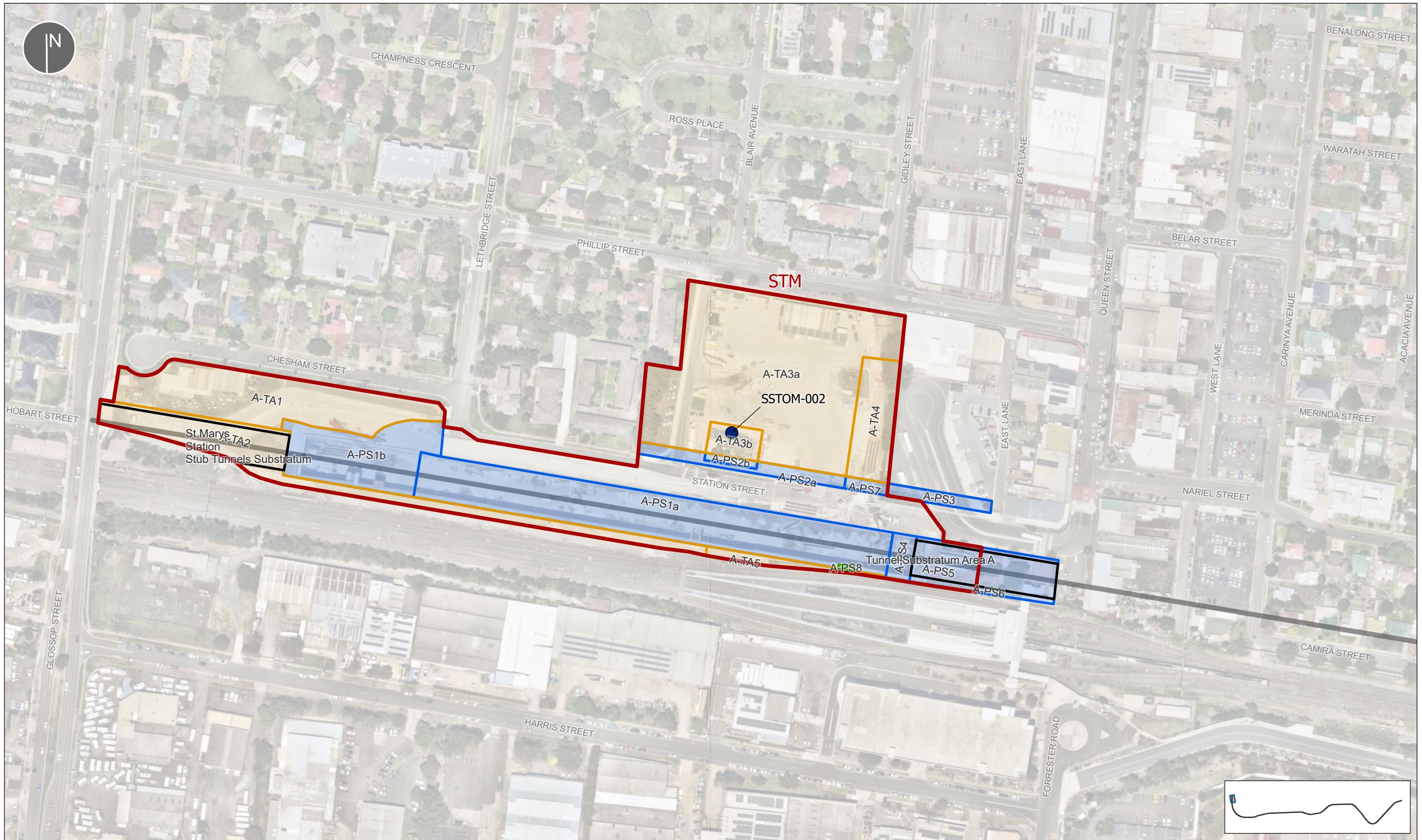
TABLE 9 SURFACE WATER MONITORING TABLE 13 MARCH 2024

Analyte	SSTOM-002 Surface Water South Creek			
	Post Rain Event	No		
	Date	13/03/2024		
	Unit	Upstream	Downstream	Adjacent
pH	pH	7.87	7.95	7.97
Aluminium	mg/L	0.13	0.17	0.48
Electrical Conductivity @ 25°C	µS/cm	981	960	961
Total Suspended Solids	mg/L	18	20	18
Copper	mg/L	<0.001	<0.001	<0.001
Ammonia	mg/L	0.02	0.02	0.01
Nitrogen (total)	mg/L	1.1	1.1	1.1
Oil and Grease	Visible/Not visible	Not visible	Not visible	Not visible
Phosphorus (total)	mg/L	0.08	0.12	0.09
Zinc	mg/L	<0.005	<0.005	<0.005
Chromium (VI) Compounds	mg/L	<0.01	<0.01	<0.01

TABLE 10 SURFACE WATER MONITORING 14 MARCH 2024

Analyte	SSTOM-002 Surface Water South Creek			
	Post Rain Event	No		
	Date	14/03/2024		
	Unit	Upstream	Downstream	Adjacent
pH	pH	6.87	7.55	7.65
Aluminium	mg/L	0.13	0.36	0.23
Electrical Conductivity @ 25°C	µS/cm	745	762	761
Total Suspended Solids	mg/L	22	24	24
Copper	mg/L	<0.001	<0.001	<0.001
Ammonia	mg/L	0.05	0.03	0.03
Nitrogen (total)	mg/L	0.7	0.9	0.9
Oil and Grease	Visible/Not visible	Not visible	Not visible	Not visible
Phosphorus (total)	mg/L	0.05	0.06	0.07
Zinc	mg/L	<0.005	<0.005	<0.005
Chromium (VI) Compounds	mg/L	<0.01	<0.01	<0.01

Appendix E Premise Maps - March



LEGEND

EPL Premise Boundary	Site Access Schedule	Temporary Area
Metro alignment	Aerial Stratum	Discharge Points
Watercourse	Project Site	Water Treatment Plant
	Substratum	

Site Access Schedule
Aerial Stratum
Project Site
Substratum

Temporary Area
Discharge Points
Water Treatment Plant

Parklife Metro D&C

TITLE
EPL 21807 PREMISE BOUNDARY

SCALE
1:2,000

SHEET
1 of 6

COORDINATE SYSTEM
GDA2020 MGA Zone 56

0 40 80m

NOTES
EPL Premise Boundary Map

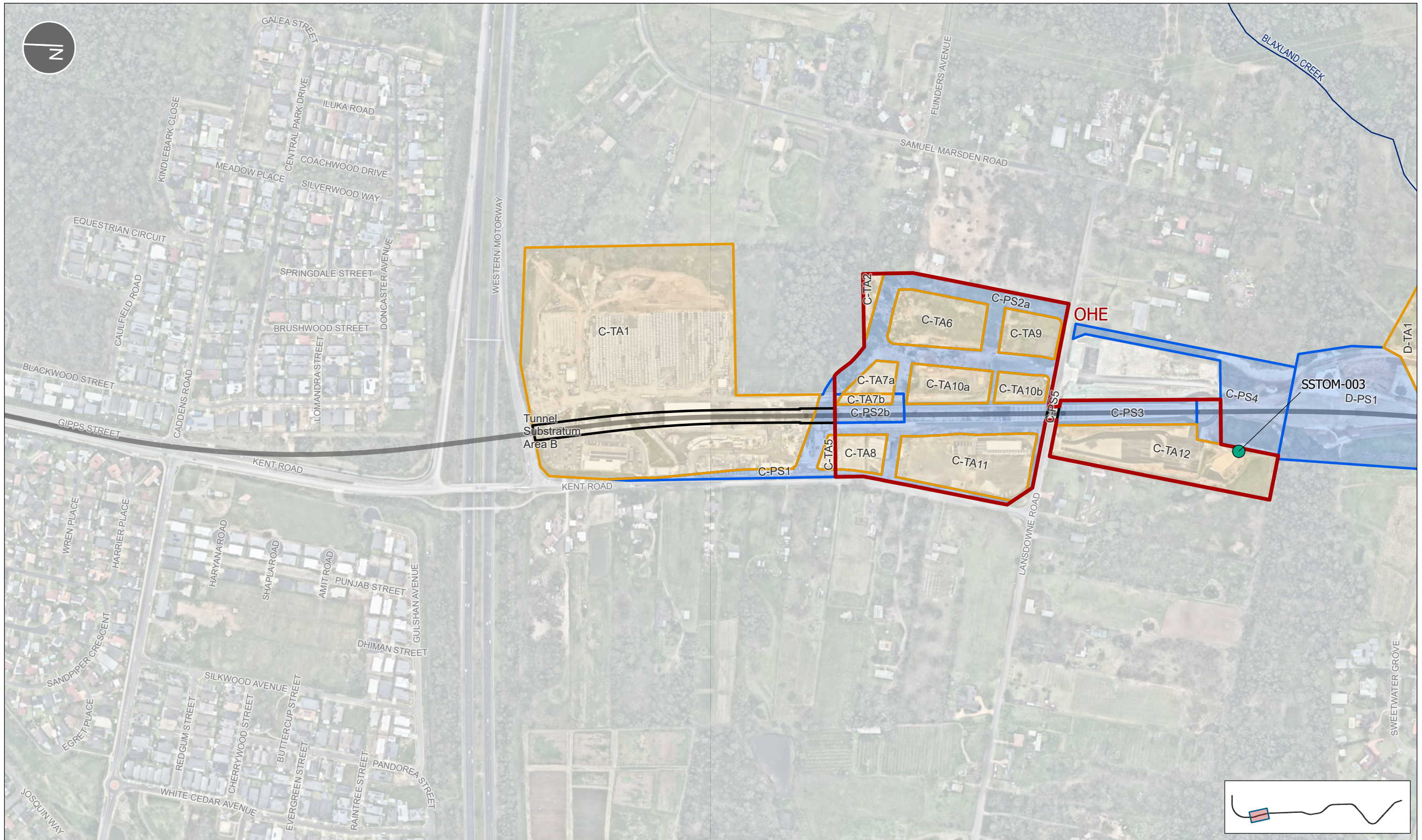
PROJECT
Sydney Metro – Western Sydney Airport - SSTOM

CLIENT
Sydney Metro

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14	29.01.2024	Premise Map update
15	09.02.2024	Premise Map update
16	21.02.2024	Premise Map update
17	18.03.2024	Premise Map update

APPROVED JB	DATE 18/03/2024
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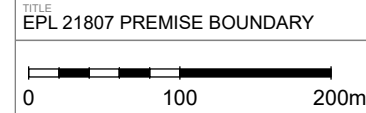
MAP # SMWSASSM-PLD-1NL- ENV-GIS-000001_17	REV 17
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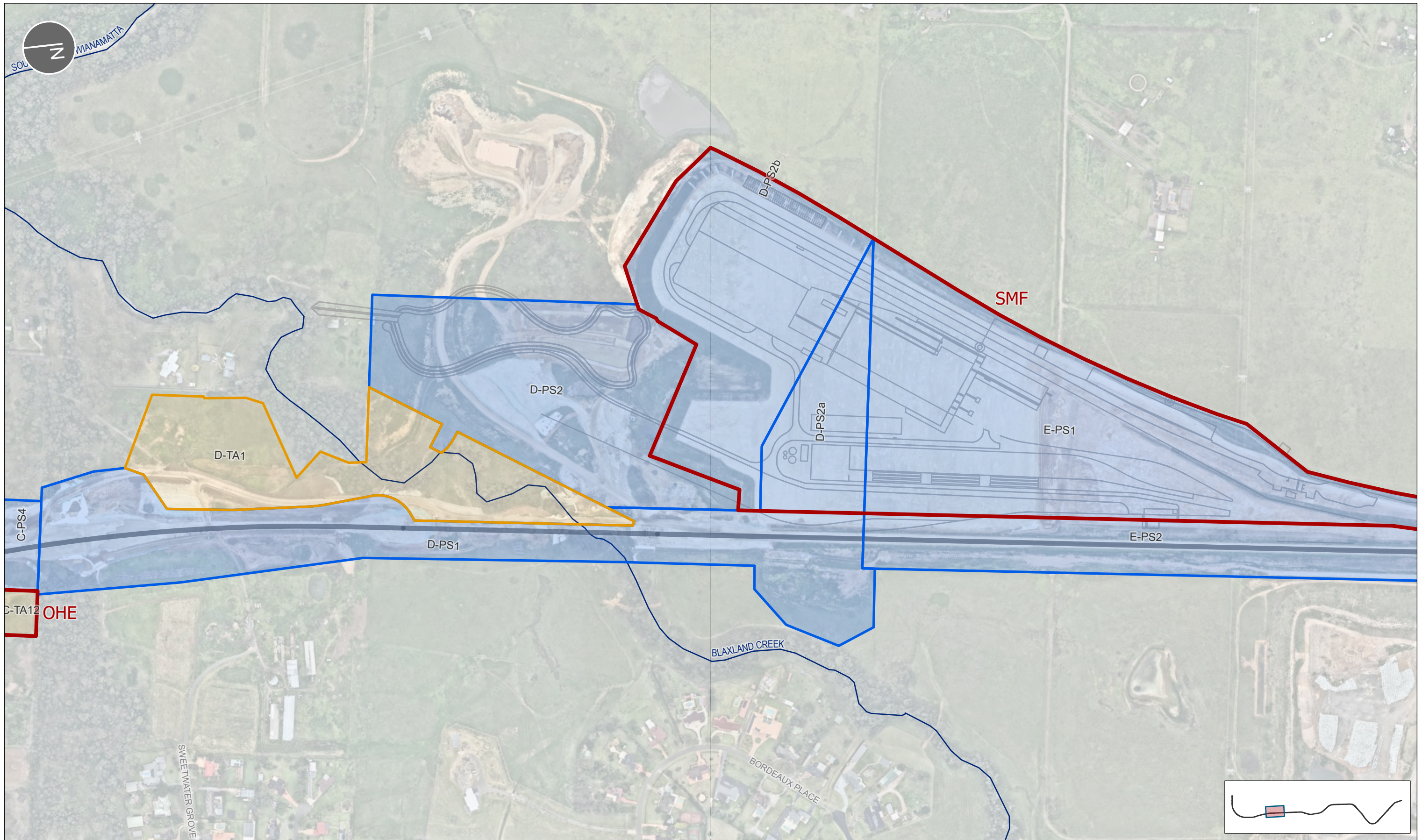
- LEGEND**
- EPL Premise Boundary
 - Metro alignment
 - Watercourse

- Site Access Schedule**
- Project Site
 - Substratum
 - Temporary Area

- Discharge Points**
- Temporary Sediment Basin



<p>NOTES</p> <p>EPL Premise Boundary Map</p>		<p>REV DATE DESCRIPTION</p> <p>12 22.12.2023 Premise Map update</p> <p>13 17.01.2024 Premise Map update</p> <p>14 29.01.2024 Premise Map update</p> <p>15 09.02.2024 Premise Map update</p> <p>16 21.02.2024 Premise Map update</p> <p>17 18.03.2024 Premise Map update</p>	
<p>TITLE</p> <p>EPL 21807 PREMISE BOUNDARY</p>		<p>PROJECT</p> <p>Sydney Metro – Western Sydney Airport - SSTM</p>	
<p>SCALE</p> <p>1:5,000</p>		<p>CLIENT</p> <p>Sydney Metro</p>	
<p>SHEET</p> <p>2 of 6</p>		<p>APPROVED</p> <p>JB</p>	
<p>COORDINATE SYSTEM</p> <p>GDA2020 MGA Zone 56</p>		<p>MAP #</p> <p>SMWSASSM-PLD-1NL-ENV-GIS-000001_17</p>	
<p>DATE</p> <p>18/03/2024</p>		<p>REVIEW</p> <p>JB</p>	
		<p>REV</p> <p>17</p>	



LEGEND

EPL Premise Boundary	Site Access Schedule	Discharge Points
Metro alignment	Project Site	Temporary Sediment Basin
Watercourse	Temporary Area	

Discharge Points

- Temporary Sediment Basin



TITLE
EPL 21807 PREMISE BOUNDARY

SCALE
1:5,000

SHEET
3 of 6

0 100 200m

NOTES

EPL Premise Boundary Map

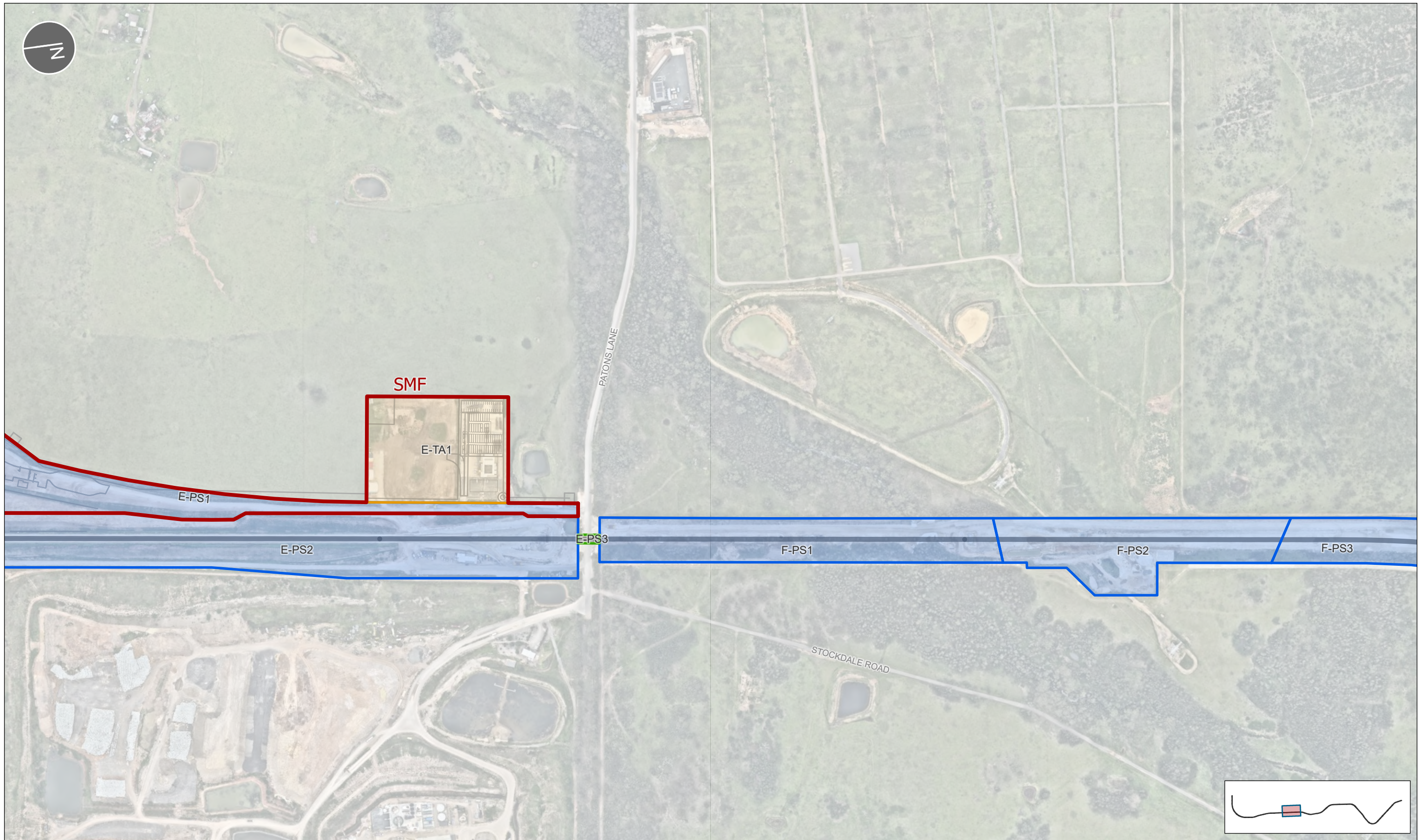
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16	21.02.2024	Premise Map update
17	18.03.2024	Premise Map update

PROJECT Sydney Metro – Western Sydney Airport - SSTOM	CLIENT Sydney Metro
SCALE 1:5,000	APPROVED JB
COORDINATE SYSTEM GDA2020 MGA Zone 56	DATE 18/03/2024
REVIEW JB	MAP # SMWSASSM-PLD-1NL-ENV-GIS-000001_17

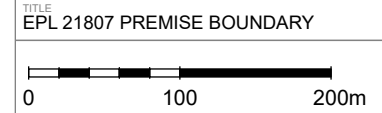
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17	18.03.2024	Premise Map update

MAP #
SMWSASSM-PLD-1NL-ENV-GIS-000001_17

17

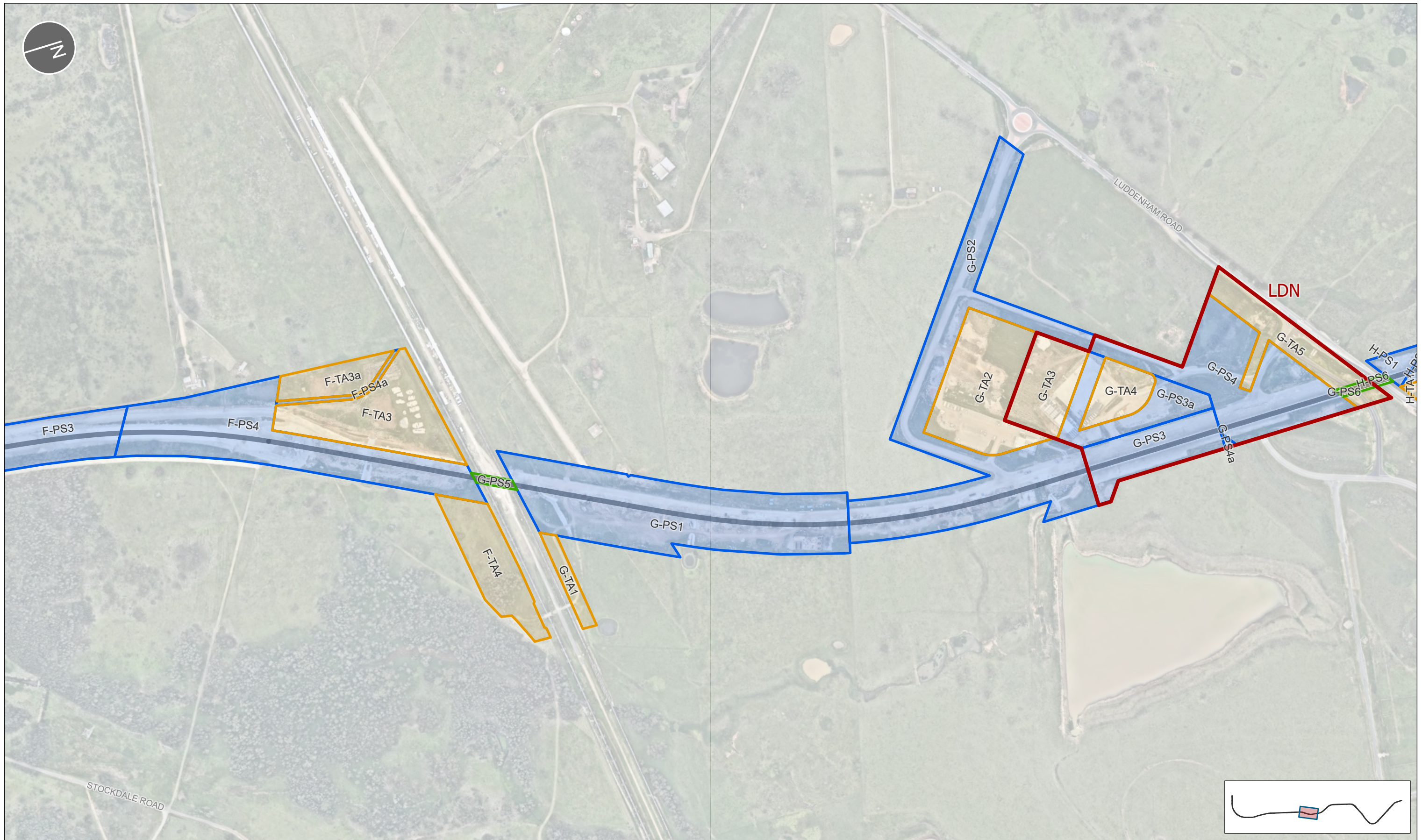


LEGEND	
	EPL Premise Boundary
	Metro alignment
	Watercourse
	Site Access Schedule
	Aerial Stratum
	Project Site
	Temporary Area

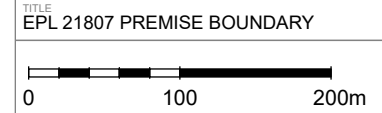


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		17	18.03.2024		Premise Map update

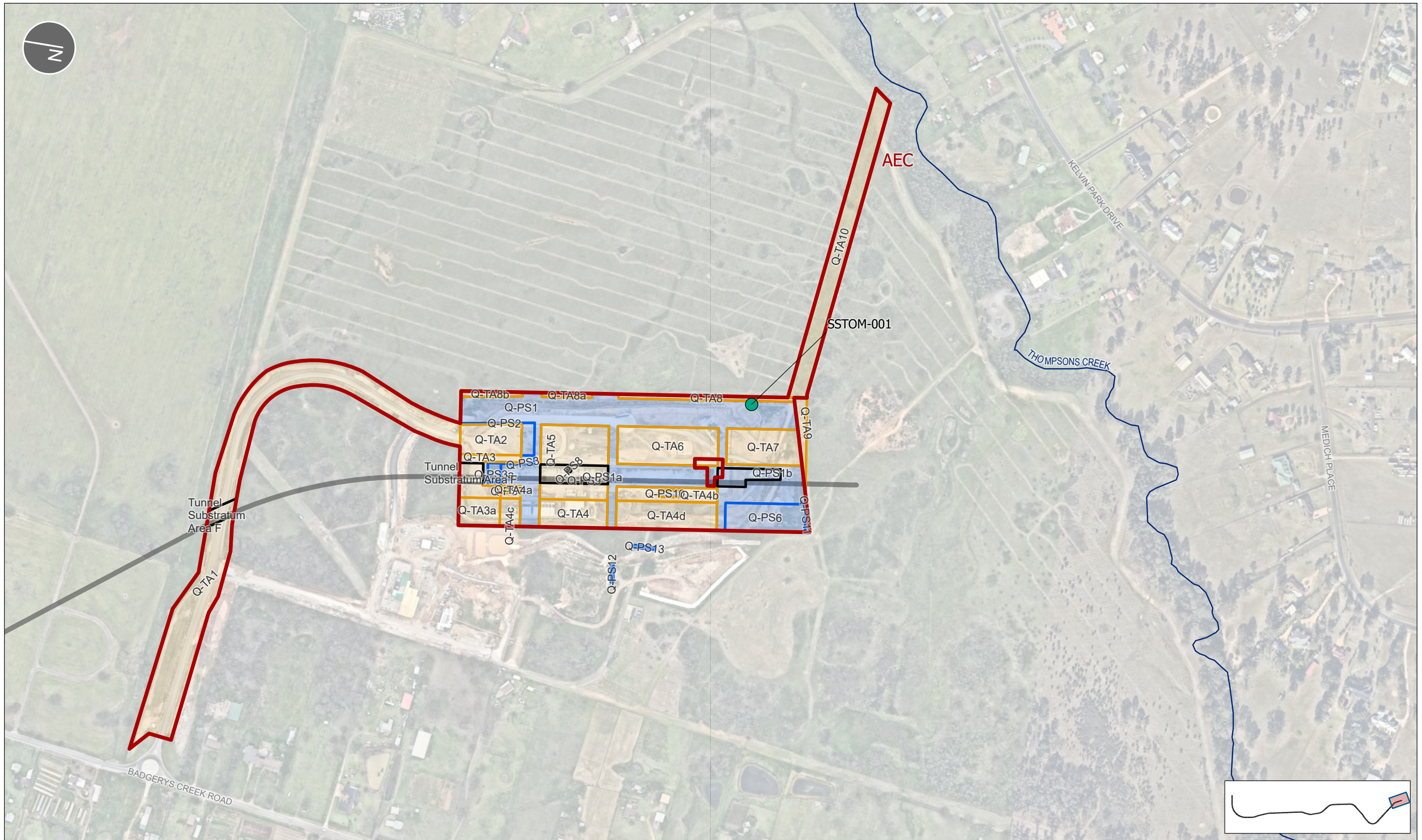
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SHEET 4 of 6	COORDINATE SYSTEM GDA2020 MGA Zone 56	REVIEW JB
	DATE 18/03/2024	APPROVED JB
		MAP # SMWSASSM-PLD-1NL- ENV-GIS-000001_17
		REV 17



LEGEND	
	EPL Premise Boundary
	Metro alignment
	Watercourse
	Site Access Schedule
	Aerial Stratum
	Project Site
	Temporary Area

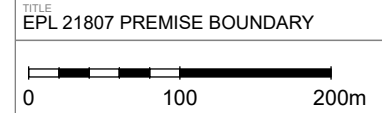


NOTES		PROJECT		CLIENT	
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SHEET	5 of 6	COORDINATE SYSTEM	REVIEW	JB	DATE
GDA2020 MGA Zone 56		18/03/2024		MAP # SMWSASSM-PLD-1NL-ENV-GIS-000001_17	
					17



LEGEND	
	EPL Premise Boundary
	Metro alignment
	Watercourse
	Project Site
	Substratum
	Temporary Area

Discharge Points	
	Temporary Sediment Basin



NOTES		REV		DESCRIPTION	
EPL Premise Boundary Map		12	22.12.2023	Premise Map update	
		13	17.01.2024	Premise Map update	
		14	29.01.2024	Premise Map update	
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TITLE EPL 21807 PREMISE BOUNDARY	PROJECT Sydney Metro – Western Sydney Airport - SSTM	CLIENT Sydney Metro
SCALE 1:5,000	A3 DRAWN BY DD	APPROVED JB
SHEET 6 of 6	COORDINATE SYSTEM GDA2020 MGA Zone 56	REVIEW JB
	DATE 18/03/2024	MAP # SMWSASSM-PLD-1NL- ENV-GIS-000001_17
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