

PARRAMATTA LIGHT RAIL STAGE 1

Supply, Operate and Maintain Contract

Quarterly Environment Report – 2022 Q1

PLR1SOM-GLR-ALL-PE-RPT-001007

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1 Amendments from Previous Quarterly Reports

Nil.

2 Progress this Quarter

This Quarterly Environment Report covers 2022 Quarter 1 (Q1 – from 01/01/2022 to 31/03/2022).

2.1 Planning Approvals and Management Plan Status

At the end of the reporting period, the Construction Environmental Management Plan (CEMP) and all sub-plans had been endorsed or approved as required by the Project Approval.

During the reporting period, three plans were endorsed by the Environmental Representative (ER):

- Construction Soil and Water Management Plan (CSWMP Rev 2)
- Construction Traffic, Transport and Access Management Plan (CTTAMP Rev 3)
- Construction Waste and Resources Management Plan (CWRMP Rev 1).

Environmental Protection Licence 21606 was issued by the Environment Protection Authority to GRCLR on 14/12/2022. Under the Protection of the Environment Operations Act (POEO Act), GRCLR is required to prepare and implement a Pollution Incident Response Management Plan (PIRMP). The PIRMP was finalised and issued for use on 08/02/2022.

In addition, and at the end of the reporting period, the following management plans were being updated to be consistent the requirements of EPL 21606:

- CEMP (Rev 5)
- Constriction Air Quality Management Plan (CAQMP Rev 2)
- Construction Noise and Vibration Management Plan (CNVMP Rev 1)
- CSWMP (Rev 2)
- CWRMP (Rev 1).

2.1.1 Pre-Construction Minor Works Approval Status

No longer required as CEMP and sub-plans are endorsed or approved.

2.1.2 Consistency Assessments Status

Submitted by GRCLR this reporting period and approved by TfNSW:

- Nil.

Currently being considered by GRCLR:

- Tetra masts.

Prepared (with review by GRCLR) and approved by TfNSW:

- Nil.

2.2 Environmental Audits and Training

Project Audit Schedule developed to ensure project audit requirements are met.

An independent environmental audit was undertaken during March. Draft results of this audit were received during the reporting period. Two recommendations were made by the auditor, relating to the reporting of events to the EPA and updating of erosion and sediment control plans.

Environmental management training packages in development and training/toolbox meeting schedule drafted for implementation, commenced in 2022 Q1.

2.3 Interface Matters

Interface meetings with PCPLR were held on 10/02/2022 and 10/03/2022.

2.4 Conditions of Approval

Reports and notifications to DPIE required under Schedule 1 of the Project Approval are listed below in Appendix 1, which includes a SOM – Package 5 status update reflecting progress against each reporting requirement.

Detailed compliance reporting addressing GRCLR progress against the requirements of the Conditions of Approval (CoAs), Environment Performance Objectives (EPOs) and Revised Environmental Mitigation Measures (REMMs) is undertaken quarterly in INX.

Of note, meetings were held with DPIE and TfNSW on 23/02/2022 and 31/03/2022 to discuss progress on preparation of the Operational Noise and Vibration Report (ONVR).

2.5 Environmental Design Requirements

The GRCLR Environment, Planning and Sustainability (EPS) team has continued to work with the Design team to close out comments on design packages and ensure compliance with the CoA, EPOs and REMMs relevant to design.

Environmental Design Review Reports (EDRRs) have been prepared with each design package submitted for review. Status of the EDRRs at the end of the reporting period is provided in Table 1. All packages are now Approved for Construction (AFC).

Table 1 EDRR Status – Q1 2022

Design Package EDRR	Design Gate*	Design Package EDRR	Design Gate*	Design Package EDRR	Design Gate*
SOM 1	AFC	SOM 16	AFC	SOM 31	AFC
SOM 2	AFC	SOM 17	AFC	SOM 32	AFC
SOM 3	AFC	SOM 18	AFC	SOM 33	AFC
SOM 4	AFC	SOM 19	AFC	SOM 34	AFC
SOM 5	AFC	SOM 20	AFC	SOM 35	AFC
SOM 6	AFC	SOM 21	AFC	SOM 36	AFC
SOM 7	AFC	SOM 22	AFC	SOM 37	AFC
SOM 8	AFC	SOM 23	AFC	SOM 38	AFC
SOM 9	AFC	SOM 24	AFC	SOM 39	AFC
SOM 10	AFC	SOM 25	AFC	SOM 40	AFC
SOM 11	AFC	SOM 26	AFC	SOM 41	AFC
SOM 12	AFC	SOM 27	AFC	SOM 42	AFC
SOM 13	AFC	SOM 28	AFC	SOM 43	AFC
SOM 14	AFC	SOM 29	AFC	SOM 44	AFC
SOM 15	AFC	SOM 30	AFC	SOM 45	AFC

* AFC = Approved for Construction, DDR = Detailed Design Review and NA = Not Applicable

2.6 Trees and Vegetation Management Requirements

2.6.1 Tree Register

The PLR Tree Register is received from the Independent Arborist at irregular intervals as it is updated by the various PLR contractors. GRCLR has not required any updates to the register this reporting period.

2.6.2 Tree Protection Plans

No tree protection plans were required for GRCLR works during this reporting period.

2.6.3 Progress of the Tree Plantings

No tree planting activities were planned or undertaken by GRCLR during this reporting period.

2.7 Compliance reporting against the CEMP

The CEMP is an active document covering construction works at the Stabling and Maintenance Facility (SaMF) site during the reporting period. The Eat Street Stop was handed over to GRCLR during the reporting period and a construction compound (i.e. a site shed and temporary fencing and lighting) has been established at this site. However construction at Eat Street did not commence during the reporting period.

2.7.1.1 Inspections

Six ER inspections were undertaken at the SaMF site during Q1 2022. These inspections were attended by TfNSW and GRCLR representatives. Details of these inspections are provided in Table 2.

Table 2 ER Inspections in Q1 2022

Inspection No.	Date	Issues Identified	Cumulative Issues Identified*	Issues Closed	Cumulative Issues Closed*
007	11/01/2022	1	9	0	7
008	01/02/2022	2	11	0	7
009	18/02/2022	1	12	3	10
010	01/03/2022	1	13	2	12
011	14/03/2022	2	15	1	13
012	30/03/2022	3	18	2	15

* Includes issues from previous reporting periods.

In addition, weekly inspections of the SaMF site and sections of the alignment were undertaken by environmental management professionals from GRCLR and subcontractors.

2.7.1.2 Noise and Vibration Monitoring

No noise and vibration monitoring of construction was undertaken during the reporting period, as no sensitive receivers are located close to the SaMF facility.

2.7.1.3 Soil and Water Monitoring

Monitoring of volume and quality of water at the SaMF site has been undertaken during the reporting period to meet the requirements of the Long Term Environmental Management Plan (LTEMP) for the site. Excessive volumes of groundwater have been measured at one of the capillary break layer (CBL) pits and investigations into the cause of these measurements are ongoing.

Stormwater discharge monitoring was undertaken during the reporting period to ensure captured stormwater met the water quality parameters identified in the project EPL and CSWMP prior to discharge offsite. Monitoring results for the reporting period are provided in Table 3.

Table 3 Stormwater Discharge Monitoring in Q1 2022

Date	Water Source	Discharge to:	Turbidity	pH	Oil & Grease
10/01/2022	SaMF – North East Excavation	Stormwater	18.5	8.35	Nil
11/01/2022	SaMF – North East Excavation	Stormwater	11.6	8.48	Nil
17/01/2022	SaMF – North East Excavation	Stormwater	48.5	8.39	Nil
19/01/2022	SaMF – Tank 0	Stormwater	46	7.73	Nil
19/01/2022	SaMF – Tank 3	Stormwater	14.9	8.11	Nil
19/01/2022	SaMF – Tank 4	Stormwater	47.8	7.71	Nil
21/01/2022	SaMF – North East Excavation	Stormwater	45.2	8.35	Nil
07/02/2022	SaMF – North East Excavation	Stormwater	31.5	8.35	Nil
07/02/2022	SaMF – Tank 3	Stormwater	11.5	7.56	Nil
07/02/2022	SaMF – Tank 2	Stormwater	22.4	8.01	Nil
08/02/2022	SaMF – North East Excavation	Stormwater	27	8.35	Nil
09/02/2022	SaMF – DS Pit 1	Stormwater	6.4	7.9	Nil
09/02/2022	SaMF – DS Pit 7	Stormwater	11.8	8.01	Nil
10/02/2022	SaMF – Tank 3	Stormwater	31.9	8.34	Nil
15/02/2022	SaMF – North East Excavation	Stormwater	27.9	8.37	Nil
12/03/2022	SaMF – North East Excavation	Stormwater	48.9	8.21	Nil
14/03/2022	SaMF – North East Excavation	Stormwater	22.5	8.44	Nil
18/03/2022	SaMF – North East Excavation	Stormwater	37.5	8.14	Nil
19/03/2022	SaMF – North East Excavation	Stormwater	30.9	8.25	Nil
21/03/2022	SaMF – North East Excavation	Stormwater	4.6	8.09	Nil
22/03/2022	SaMF – North East Excavation	Stormwater	7.6	7.96	Nil

2.7.1.4 Air Quality Monitoring

Monthly Dust monitoring for the SaMF site has been undertaken during the reporting period and assessed against the dust management goals in the AQMP. Due to significant rainfall during the reporting period some monthly dust results were not able to be assessed due to water accumulation within the sample container. Dust Monitoring results for the reporting period are provided in Table 4.

Table 4 Dust Monitoring in Q1 2022

Month	Location	Total insoluble matter (g/m ² /month)	Rolling Average*	Notes
January 2022	SaMF	3.3	2.05	Sample bottle full of water
February 2022	SaMF	-		Sample bottle overtopped – result invalid
March 2022	SaMF	-		Result pending at time of reporting.

* Includes previous reporting periods.

2.7.1.5 Incidents and Non-Conformances

One non-conformance was identified during the reporting period. This non-conformance related to pumping of water from an excavation on the SaMF site without the water discharge permit required by the CEMP in place. This non-conformance has been reported in INX and the report has been closed out.

3 Conclusion

There was one environmental non-compliance reported during Q1 2022. The design has progressed with input from the EPS team. Construction at the SaMF site was ongoing during the reporting period.

Appendix A Planning Approval Reporting Requirements and Status for SOM – Package 5

Condition	Report/Notification/ Appointment	Timing	Purpose	Status for SOM – Package 5
Part A – Administrative				
A30/A31	Compliance Tracking Program	At least one month before the commencement of works	Information	Compliance against all conditions is reported in INX on a quarterly basis
A34	Pre-Construction Compliance Report	No later than one month before the commencement of construction (or each stage of construction in staging report)	Information	Pre-Construction Compliance Report submitted to DPIE on 14/05/2021
A37	Construction Compliance Reports	Every six months from the date of commencement of construction	Information	Construction commenced this reporting period and GRCLR will contribute to the August 2021 to January 2022 Construction Compliance Report as requested by TfNSW
A38	Pre-Operation Compliance Report	No later than one month before commencement of operation	Information	Operation not due to commence until 2023 hence Pre-Operation Compliance Report was not required in this reporting period
A40	Environmental Audit Program	No later than one month before commencement of operation	Information	Submitted for construction by TfNSW to DPIE prior to this reporting period, will be submitted for operations prior to commencement of operations
A43	Environmental Audit Reports	Within six weeks of completing the audit	Information	No audits have been conducted in this reporting period
A44	Notification of Incidents	Immediately after the Proponent becomes aware of an incident	Notification	No incidents notified in this reporting period
A45	Incident Report	Within one week of notification of an incident	Information	No incidents to report in this reporting period
A47	Notification of Incident notified under POEO	Within 24 hours after notification give to EPA	Information	No incidents notified in this reporting period
Part B – Communication Information and Reporting				
B9/B10	Complaints	On request	Information	No complaints were received regarding SOM works in this reporting period
B11	Provision of electronic information	On request	Information	Information will be supplied to TfNSW as required
Part C – Construction Environmental Management				
C7	Construction Environmental Management Plan	No later than one month before the commencement of construction	Approval	CEMP approved by DPIE

Condition	Report/Notification/ Appointment	Timing	Purpose	Status for SOM – Package 5
C13	Construction Monitoring Program	At least one month before the commencement of construction	Information	Construction Noise and Vibration Monitoring and Grey Headed Flying Fox Monitoring Programs accepted by DPIE
C18	Site Establishment Management Plan (SEMP)	One month before establishment of any construction ancillary facility	Approval	SEMP for SaMF site approved by DPIE
Part D – Operation Environmental Management				
D3/D6/D7	Operational Environmental Management Plan (OEMP)	No later than one month before the commencement of operation	Information	Operation not due to commence until 2023 hence OEMP was not required in this reporting period
Part E – Key Issues				
Traffic and Transport				
E14	Pedestrian and Cyclist Network and Facilities Strategy	Before construction of pedestrian/cyclist permanent built works	Information	Addendum to the Pedestrian and Cyclist Network and Facilities Strategy accepted by DPIE
E19	Operational Traffic, Transport and Access Performance Review	Within one month of completion	Information	Operation not due to commence until 2023 hence Operational Traffic, Transport and Access Performance Review was not required in this reporting period
Noise and Vibration				
E28	Out-of-Hours Work Protocol	Before commencement of any out-of-hours works	Approval	TfNSW Out-of-Hours Work Protocol approved by DPIE however no longer used for SOM Works. GRCLR issued EPL for SOM works during reporting period and therefore TfNSW OOHW protocol no longer applicable. GRCLR Internal OOHW protocol developed for inclusion into CNVMP.
E39	Out-of-Hours Work Respite	Following consultation at three monthly intervals	Information	Not required in this reporting period, but requirement address in CNVP approved by DPIE
E48	Operational Noise and Vibration Review (ONVR)	Before the implementation of mitigation measures	Approval	ONVR submitted to DPE during this reporting period
E58	Noise and Vibration Compliance Assessment Report	Within one month of its completion	Information	Operation not due to commence until 2023 hence Noise and Vibration Compliance Assessment Report was not required in this reporting period
E59	Noise and Vibration Compliance Assessment Report – Update	Within one month of its completion	Information	Operation not due to commence until 2023 hence no update to the Noise and Vibration Compliance Assessment Report was required in this reporting period

Condition	Report/Notification/ Appointment	Timing	Purpose	Status for SOM – Package 5
Heritage				
E75	Archaeological Excavation Report	Within 12 months of completing archaeological investigations	Information	No archaeological relics were discovered during this reporting period hence no Archaeological Excavation Reports were required
Urban Design and Visual Amenity				
E87	Urban Design Requirements Report (UDRR)	Following review by the Design Review Panel	Approval	Project-wide UDRR was prepared by PCPLR with input from GRCLR
Biodiversity and Revegetation				
E106	Tree Register	Before the removal, damage or pruning of a tree for the purposes of the CSSI	Information	Construction Flora and Fauna Management Plan (CFFMP Rev 4) has been endorsed by the ER and will be submitted to DPE for approval and addresses GRCLR interactions with the Independent Arborist and the Tree Register
Socio-Economic, Land Use and Property				
E113	Flood Management Design Report	At each design stage with potential to cause adverse flooding impacts	Information	Project-wide Flood Management Design Report was prepared by PCPLR with input from GRCLR
E114	Operational Flood Management Plan	Before commencement of operations	NA	Operation not due to commence until 2023 hence Operational Flood Management Plan was not required in this reporting period
E117	Electromagnetic Management Plan	Before commencement of operations	Information	Operation not due to commence until 2023 hence Electromagnetic Management Plan was not required in this reporting period
E132	Final Hazard Analysis and Construction Safety Study	Before commencement of construction of any hazardous works or works adjacent to hazardous infrastructure	Approval	Construction of this nature did not commence this reporting period hence no Final Hazard Analysis and Construction Safety Study was required
E133	Post-Startup Compliance Report	Three months after commencement of operations	Information	Operation not due to commence until 2023 hence Post-Startup Compliance Report was not required in this reporting period

