Upper South Creek

Advanced Water Recycling Centre and Pipelines

Flood Emergency Response
CEMP Sub-plan

Document No: USCP-JHG-MPL-ENV-0004
Revision: 05

Revisions and Distribution

Recommend Documents to be Read in Conjunction

This management plan is to be read in conjunction with the Construction Environmental Management Plan (USCP-MPL-ENV-0008), Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) and Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001).

Distribution

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Revisions

Draft issues of this document shall be identified as Revision 01, 02, 03 etc. Upon initial issue (generally Contract Award) this shall be changed to a sequential lettering commencing at Revision A. Revision numbers shall commence at Rev. A, B etc.

Date	Rev	Details Of Change	Section	Prepared By	Reviewed & Approved By
26.01.2023	01	Initial draft for John Holland and Sydney Water review	All	SM	AH
22.02.2023	02	Updated following SWC comments	All	AH	AH
15/03/2023	03	Updated following ER comments	All	DOB	AH
11/05/2023	04	Updated following ER & Agency comments	All	AH	AH
14/06/2023	05	Updated following DPE comments	All	MS	AH

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CONTENTS

GLOSSARY & ABBREVIATIONS 5
1 INTRODUCTION 6
1.1 Context 6
1.2 Project Description and Background 6
1.3 Purpose 7
1.4 Endorsement and Approval 7
2 OBJECTIVES & TARGETS 11
2.1 Objectives 11
2.2 Targets 11
3 LEGISLATIVE AND GUIDANCE REQUIREMENTS 12
3.1 Minister's Conditions of Approval 13
3.2 Updated Management Measures 14
4 CONSULTATION 15
4.1 FERSCP consultation 15
4.2 Ongoing Consultation During Construction 15
5 EXISTING ENVIRONMENT 16
5.1 Climate 16
5.2 Land Use 16
5.3 Topography 16
5.4 Summary of Existing Flood Behaviour 17
6 FLOODING AND CONSTRUCTION IMPACTS 19
6.1 Construction Activities 19
6.2 Impacts 19
7 MANAGEMENT OF FLOODING 22
7.1 Pre-Flood Actions 22
7.2 Flood Emergency Response 22
7.3 Post-Flood Emergency 23
7.4 Summary of Flood Management Measures 24
8 COMPLIANCE, REVIEW AND CONTINUOUS IMPROVEMENT 26
8.1 Resources 26
8.2 Training and Awareness 26
8.3 Monitoring and Inspections 26
8.4 Auditing and Reporting 26
8.5 Incident Management 27
8.6 Continuous Improvement 27
8.7 FERCSP Update and Change Management 27
APPENDIX A COA A9 CONSULTATION SUMMARY REPORT 28
APPENDIX B FLOOD MAPPING 29
APPENDIX C EVACUATION ROUTES 30

GLOSSARY & ABBREVIATIONS

Abbreviations	Meaning
AEP	Annual Exceedance Probability
Amendment Report	Upper South Creek Advanced Water Recycling Centre Amendment Report (March 2022)
Amendment RtS	Upper South Creek Advanced Water Recycling Centre Submissions Report – project amendments (April 2022)
AWRC	Advanced Water Recycling Centre
BoM	Bureau of Meteorology
FERCSP	Flood Emergency Response CEMP Sub-plan (this plan)
FFA	Flood Frequency Analysis
CEMP	Construction Environmental Management Plan
CoA	Minister's Conditions of Approval
CSEP	Community & Stakeholder Engagement Plan (project-specific compliance tool to address the requirements of MCoA B1 and B2)
CSSI	Critical State Significant Infrastructure
DPI	Department of Primary Industries
DPE	NSW Department of Planning and Environment
EIS	Upper South Creek Advanced Water Recycling Centre Environmental Impact Statement (September 2021)
EIS RtS	Upper South Creek Advanced Water Recycling Centre Submissions Report (March 2022)
Environmental aspect	Defined by AS/NZS ISO 14001:2015 as an element of an organisation's activities, products or services that can interact with the environment.
Environmental impact	Defined by AS/NZS ISO 14001:2015 as any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects.
Environmental objective	Defined by AS/NZS ISO 14001:2015 as an overall environmental goal, consistent with the environmental policy, that an organisation sets itself to achieve.
Environmental target	Defined by AS/NZS ISO 14001:2015 as a detailed performance requirement, applicable to the organisation or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.
EP&A Act	*Environmental Planning and Assessment Act* 1979
EPBC Act	*Environmental Protection and Biodiversity Conservation Act* 1999
EPL	Environmental Protection Licence
ER	Environmental Representative
EWMS	Environmental Work Method Statements
Feasible and reasonable	Consideration of best practice taking into account the benefit of proposed measures and their technological and associated operational application in the NSW and Australian context. Feasible relates to engineering considerations and what is practical to build. Reasonable relates to the application of judgement in arriving at a decision, taking into account mitigation benefits and cost of mitigation versus benefits provided, community views and nature and extent of potential improvements.
Flood	A high stream flow which overtops the riverbank and inundates land that is usually dry
FM Act	*Fisheries Management Act* 1994
JH	John Holland (the Principal Contractor)
NPW Act	*National Parks and Wildlife Act* 1974
OEH	NSW Office of Environment and Heritage
Project, the	Upper South Creek – Advanced Water Recycling Centre and Pipelines Project
SES	State Emergency Services
SMART principles	Specific, Measurable, Achievable, Realistic and Timely principles
SWC	Sydney Water Corporation (the client and Proponent)
USC	Upper South Creek
TW	Treated Water
UMM	Updated Management Measures
USC	Upper South Creek

1 Introduction

1.1 Context

This Flood Emergency Response CEMP Sub-plan (FERCSP) forms part of the Construction Environmental Management Plan (CEMP) for Upper South Creek Advanced Water Recycling Centre (AWRC) and Pipelines Project (refer to herein as the Project).

This FERCSP has been prepared to address the requirements of:

- Minister's Conditions of Approval (MCoA),
- *Upper South Creek Advanced Water Recycling Centre Environmental Impact Statement* (EIS) (September 2021)
- *Upper South Creek Advanced Water Recycling Centre Submission Report* (March 2022)
- *Upper South Creek Advanced Water Recycling Centre Amendment Report* (March 2022)
- *Upper South Creek Advanced Water Recycling Centre Submissions Report – Project Amendments* (April 2022)
- Response to DPE RFI 1, regarding responses to advice received on the Response to Submissions Report (dated 01 June 2022, 01 July 2022 and 11 July 2022)
- Response to DPE RFI 2, regarding additional information on Flood Impact Assessment (dated 11 July 2022)
- Modification of Infrastructure Approval CSSI 8609189, 26 May 2023 (herein referred to as Mod 1)
- Commonwealth Controlled Activity Approval (EPBC 2020/8816); and
- All applicable legislation.

The USC project will be built in stages, consisting of:

Stage 1

- building and operating the AWRC to treat a daily wastewater flow, known as the average dry weather flow (ADWF), of up to 50 megalitres per day (ML/day); and
- building the treated water and brine pipelines to cater for up to 100 ML/day flow coming through the AWRC (but only operating them to transport and release volumes produced by Stage 1).

Future Stages

It is expected that the AWRC will ultimately require expansion to treat wastewater flows up to 100 ML/day. Sydney Water will remain flexible on the size and timing of these future upgrades to accommodate changes in population projections over time. Future stages will be subject to further environmental assessment.

Further detail on project staging is provided in the EIS. This FERCSP applies to Stage1 detailed design, construction and commissioning only. John Holland (JH) has been appointed by Sydney Water (SWC) to deliver the USC project works, including detailed design and construction for treating an operational daily wastewater flow of up to 35ML/day. Greater flow capacities (including up to 50ML/day and 100ML/day), as explored in the EIS, are not covered in this FERCSP.

1.2 Project Description and Background

A comprehensive project description, including staging of the project, is outlined in Sections 1.1 to 1.3 of the CEMP. Figure 2-1a and Figure 2-1b includes an overview of the Project site and associated pipelines. Figure 2-2 includes an overview of the AWRC site.

As part of the EIS development, a detailed assessment was developed to identify the key issues related to flood emergency response, including characterisation of the existing environment and surrounding sensitive receivers. The assessment is included in Section 9.3 of the EIS and in Appendix L (Flood Impact Assessment). An addendum to the Flood Impact Assessment and Request for Information (RFI) provided further information and validation of the EIS modelling with regard to the NSW Government flood studies.

1.3 Purpose

The purpose of this FERCSP is to describe measures for managing flood risks and flood recovery during construction in accordance with Specific, Measurable, Achievable, Realistic and Timely (SMART) principles.

- **S**pecific – flood mitigation and management measures explored in Section 8 of this Plan specifically speak to JH's approach to managing flood risks and flood recovery during construction.
- **M**easurable – Inspection and monitoring requirements detailed in Section 9 of this Plan include specific measures or indicators for which inspection and monitoring requirements will be triggered.
- **A**chievable – Ongoing compliance with relevant CoAs and UMM requirements (Tables 4-1 and 4-2, respectively), is achievable throughout the delivery of the USC construction work and represents the minimum requirements to be implemented by JH.
- **R**elevant - The management measures outlined in Section 8 of this Plan represent JH's approach to monitoring and tracking against the objectives, targets and environmental performance outcomes (which are identified in Section 3 of this Plan).
- **T**ime-bound – On a broader scale, the management measures set out within Section 8 of this Plan are required to be implemented for the duration of construction, setting a clear and defined time frame and includes reference to other temporal applications, including during *detailed design*, *pre-construction*, *post-construction* and/or *operation*.

1.4 Endorsement and Approval

As detailed in Section 2 of the CEMP, the CEMP and all CEMP Sub-plans will be approved by the John Holland Construction Manager, John Holland Environmental Manager and Sydney Water prior to submission to the Environmental Representative (ER) for endorsement.

As per Table 2-1 of the CEMP, the FERCSP will then be issued to the NSW Department of Planning and Environment (DPE) for approval no later than one month before the commencement of construction, or where construction is staged, no later than one month before the commencement of each stage.

Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary. The FERCSP will be implemented for the duration of construction of Stage 1 of the project. Any minor amendments must be approved by the ER and implemented for the duration of construction.

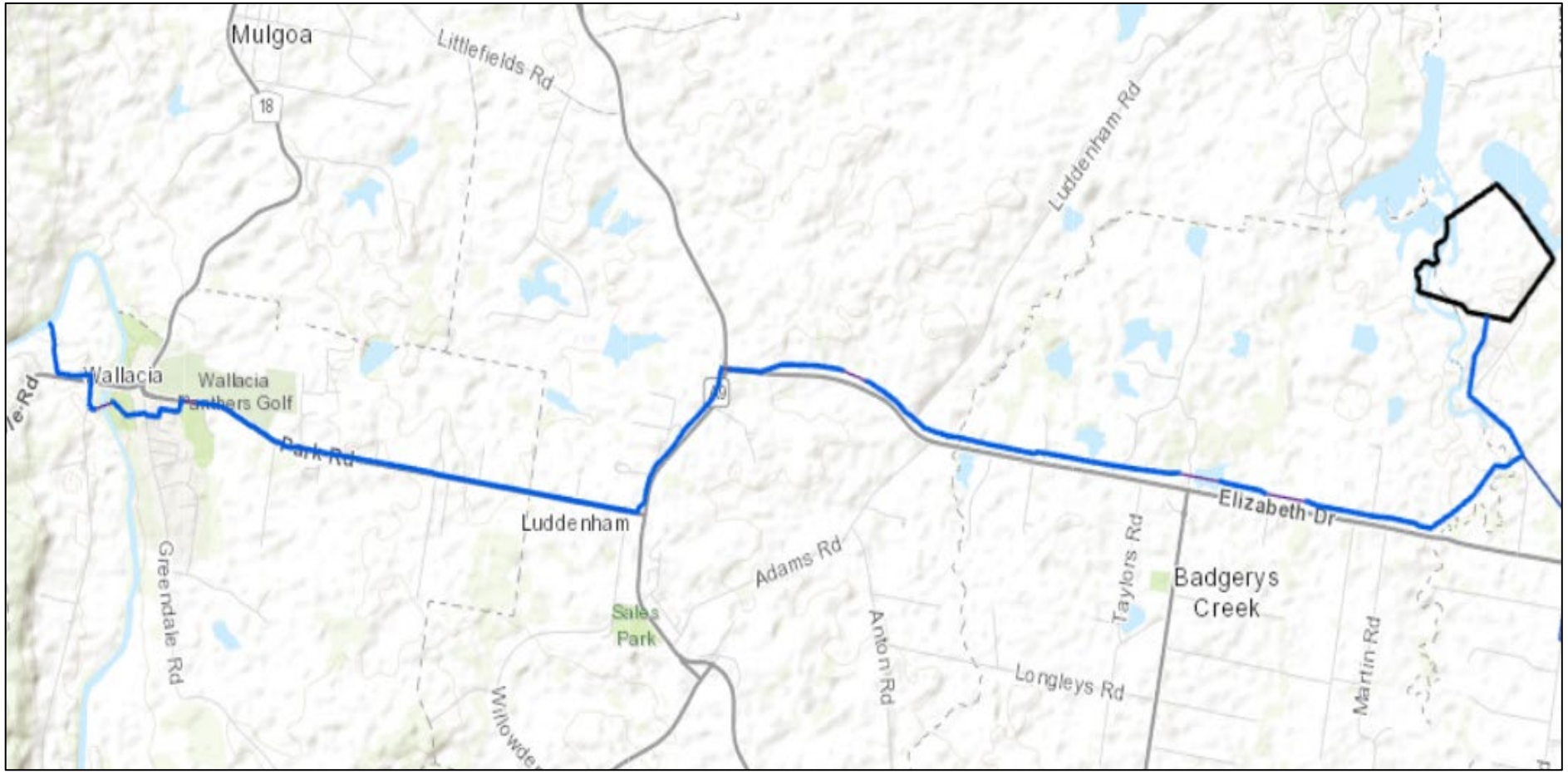

Figure 2-1a Indicative overview of the project site (AWRC) and treated water pipeline

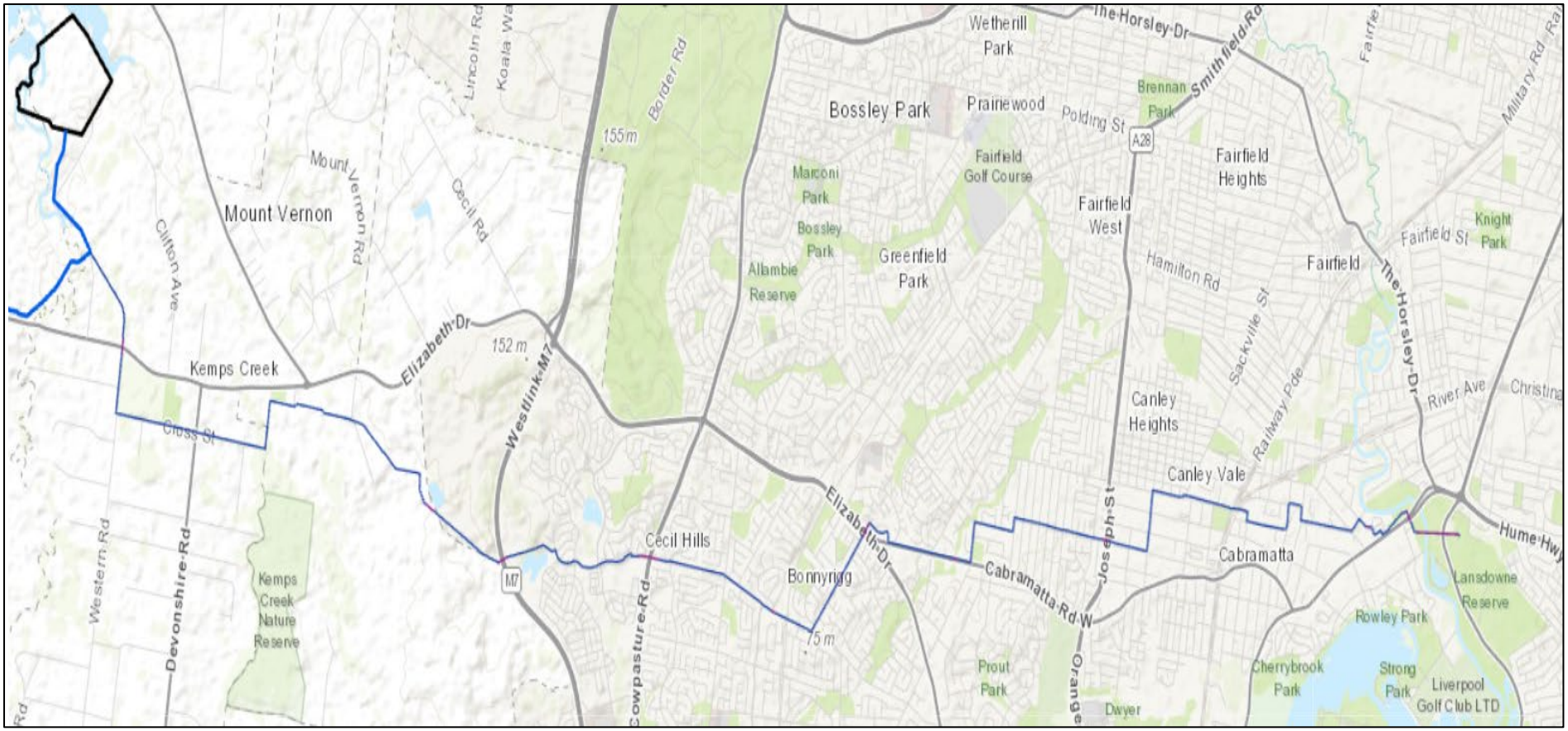

Figure 2-1b Indicative overview of the project site (AWRC) and brine pipeline

1	AWRC SITE ENTRY	6	BRINE TANKS
2	ADMINSTRATION CENTRE AND CAR PARKING	7	DIGESTORS
3	PARKLAND ACCESS ROAD	8	MBR
4	OVERLAND DISCHARGE ALIGNMENT	9	INLET WORKS
5	ONSITE BIO DETENTION AND RETENTION BASIN	10	OXIDATION DITCH

Figure 2-2 Indicative AWRC site arrangement (indicative and pending detailed design)

2 Objectives & Targets

The objectives, targets and performance criteria identified in this FERCSP are applicable to all construction works associated with the USC Project (John Holland and its subcontractors).

2.1 Objectives

The objective of this FERCSP is to ensure that all avoidance, mitigation and management measures relevant to flood risks and flood recovery during construction referred to in the documents listed are adopted and implemented:

- The Environmental Impact Statement (EIS) prepared for the Upper South Creek Advanced Water Recycling Centre Project
- The Response to Submissions (RtS) Report prepared for the Upper South Creek Advanced Water Recycling Centre Project
- The Amendment Report prepared for the Upper South Creek Advanced Water Recycling Centre Project
- The Relevant Response to RFI (44447594) – flooding (11 July 2022)
- The relevant Minister's Conditions of Approval (SSI 8609189) and Updated Management Measures (UMMs)
- Commonwealth Controlled Activity Approval (EPBC 2020/8816)
- Sydney Water *Management Specification*
- Legislative requirements detailed in Section 4 of this FERCSP.

2.2 Targets

The following performance criteria and targets related to flood matters have been identified for implementation during the project:

- Ensure full compliance with the relevant legislative requirements, CoA, UMMs and Commonwealth approval.
- Minimise or avoid flood related impacts during construction
- Follow correct procedures for the monitoring, preparation and evaluation of construction areas prior to a flood event
- Minimise and manage construction impacts on flooding to avoid significant impacts to people and property
- Ensure training is provided in the form of inductions and toolboxes to all Project personnel on flood risks, protection measures and evacuation procedures before they begin work on site
- Compliance with John Holland Global Mandatory Requirements.

3 Legislative and Guidance Requirements

All relevant legislation and associated requirements, including approvals, licences and permits are tabulated and discussed in Appendix A3 of the CEMP.

The primary guidelines, specifications and other reference documents relevant to this plan include:

- Australia Rainfall and Runoff – A Guide to Flood Estimation, Commonwealth of Australia (Geoscience Australia), 2019
- Canterbury-Bankstown Council LGA, Georges River Floodplain Risk Management Study and Plan (Bewsher Consulting Pty Ltd, 2004)
- Fairfield City Council LGA, Rural Area Flood Study (BMT WBM, 2013)
- Floodplain Development Manual (OEH, 2005)
- Floodplain Risk Management Guidelines (DPIE, 2020)
- Liverpool City Council LGA, Austral Floodplain Risk Management Study and Plan (Liverpool City Council, 2003)
- Managing Urban Stormwater, Soils and Construction, Volume 1 4th Edition, March 2004 (Landcom 2004) and Managing Urban Stormwater, Volume 2D – Main Road Construction (DECC 2008)
- New South Wales State Emergency Management Plan (EMPLAN) (Office of Emergency Management, 2012)
- New South Wales State Flood Plan (a sub-plan of EMPLAN) (State Emergency Management Committee, 2015)
- New South Wales State Emergency Management Plan – Evacuation Management Guidelines (SEMC Evacuation Working Group, 2014)
- Penrith City Council LGA, South Creek Floodplain Risk Management Study and Plan (Penrith City Council, 2019)
- Sydney Water *Management Specification*
- Wollondilly Shire Council LGA, Stonequarry Creek Floodplain Risk Management Study and Plan (WMA Water, 2020)
- Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)
- Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding (11 July 2022).

3.1 Minister's Conditions of Approval

Table 4-1 below provides a summary of the CoA relevant to flood management and how and where these items are addressed in this plan.

Table 4-1 Minister's Conditions of Approval

MCoA Reference	Condition Requirement	FERCSP Reference
A9	Where the terms of this approval require consultation to be undertaken, evidence of the consultation undertaken must be submitted to the Planning Secretary and ER (as relevant) with the corresponding documentation. The evidence must include:	Section 5 and Table *5-1* Appendix A CoA A9 Consultation summary report
	a. documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;	Appendix A CoA A9 Consultation summary report
	b. a log of the dates of engagement or attempted engagement with the identified party;	Appendix A CoA A9 Consultation summary report
	c. documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations;	Appendix A CoA A9 Consultation summary report
	d. outline of the issues raised by the identified party and how they have been addressed; and	Appendix A CoA A9 Consultation summary report
	e. a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.	Appendix A CoA A9 Consultation summary report
A43	The Planning Secretary must be notified via the Major Projects Website as soon as possible and no later than 12 hours after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident.	Section 9.5
C3	The CEMP (and relevant CEMP sub-plans) must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one month before the commencement of construction, or where construction is staged, no later than one month before the commencement of each stage.	Section 2.4 Section 2 of the CEMP Table 2-1 of the CEMP
C4	The following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of all information requested by an agency during consultation must be provided to the Planning Secretary as part of any submission of the relevant CEMP Sub-plan, including copies of all correspondence from those agencies as required by Condition A9. b. Flood emergency response (in consultation with EHG, SES, relevant council(s) *Note: CEMP Sub-plan(s) may reflect the construction of the project through geographical activities, temporal activities or activity-based staging.*	Section 5
C5	The CEMP Sub-plans must state how:	
	a. the environmental performance outcomes identified in the documents listed in Condition A1 will be achieved;	Section 8
	b. the mitigation measures identified in the documents listed in Condition A1 will be implemented;	Section 4.2 Section 8
	c. the relevant terms of this approval will be complied with; and	Section 4
	d. issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART principles	Section 2.3 Section 5.2 Section 8
C7	The Flood Emergency Response CEMP Sub-Plan must include measures for managing flood risks during construction and address flood recovery.	Section 8

MCoA Reference	Condition Requirement	FERCSP Reference
E25	Unless otherwise agreed by the Planning Secretary, Stage 1 of the CSSI must be designed and constructed to limit impacts on flooding characteristics in areas outside the project boundary, to those impacts documented in the amended Flood Impact Assessment (FIA) (July 2022) listed in Condition A1. Where the requirements set out in the amended FIA (July 2022) listed in Condition A1 cannot be met alternative flood levels or mitigation measures may be agreed to with the affected landowner. In the event that the Proponent and the affected landowner cannot agree on the measures to mitigate the impact as described in the amended FIA (July 2022) listed in Condition A1, the Proponent must engage a suitably qualified and experienced independent person to advise and assist in determining the impact and relevant mitigation measures	Section 5.2
E26	Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registered surveyor certifying finished ground levels and the dimensions and finished levels of all structures within the flood prone land, must be provided to the relevant council(s), EHG and the SES in order to assist in preparing relevant documents and to reflect changes in flood behaviour as a result of Stage 1 of the CSSI. The council(s), EHG and the SES must be notified in writing that the information is available no later than one month following the completion of construction. Information requested by the relevant council(s), EHG or the SES must be provided no later than six months following the completion of construction or within another timeframe agreed with the relevant council(s), EHG and the SES.	Section 9.4
E27	Prior to the commencement of construction within the green space area as mapped in Figure 4-7 and Figure 4-8 of the Environmental Impact Statement listed in Condition A1, the Proponent must prepare a Flood Impact and Risk Assessment (FIRA) for the proposed concept design of the green space area. The FIRA must incorporate all proposed elements (including but not limited to vegetation, walking paths, fences, irrigation area and outdoor learning spaces). The FIRA must be prepared by a suitably qualified and experienced flood consultant in consultation with EHG, and provided to the Planning Secretary for approval *Note: Condition E27 excludes construction of elements required for effective operation and management* *of operational components of the AWRC plant. This includes release infrastructure to South Creek, fences* *around the AWRC operational area and fire trail around the AWRC operational area*	Outside of scope of this FERCSP. The requirement will be addressed in future documentation prepared and submitted for future stages of the project.
E28	The FIRA required under Condition E27 must address the performance outcome criteria specified in Table 9.1.2 of the draft Western Sydney Aerotropolis Development Control Plan 2021 (draft Aerotropolis DCP Phase 2, October 2021).	Outside of scope of this FERCSP. The requirement will be addressed in future documentation prepared and submitted for future stages of the project.

3.2 Updated Management Measures

Table 4-2 below provides a summary of the Updated Management Measures (UMMs) relevant to managing flood risks and flood recovery and how and where these items are addressed in this plan.

Table 4-2 Updated Management Measures

UMMs Reference	Management Measure Requirement	FERCSP Reference
FL01	Develop and implement a construction and operational flood preparedness procedure in consultation with NSW SES, Wollondilly Shire Council and Penrith City Council and in accordance with the Flood Impact study in Appendix L. As a minimum, this will include • monitoring procedures for rainfall and flood warnings (Flood Watch, Early Warning Network) • actions to be completed prior, during and post flood events • identifying evacuation routes, rescue procedures and steps to resume normal operations • reporting requirements and corrective actions	This FERCSP Section 5 Section 8

4 Consultation

4.1 FERSCP consultation

Consultation requirements raised in the Infrastructure Approval are explored in detail in Section 2 of the CEMP. Specifically, the FERCSP has been provided to the following agencies in accordance with CoA C4.

- Department of Environment & Planning, Environment and Heritage Group (EHG)
- NSW State Emergency Service (SES)
- Relevant Councils, including:
  - Wollondilly Shire Council
  - Penrith City Council
  - Liverpool City Council
  - Fairfield City Council
  - Canterbury-Bankstown Council

In accordance with CoA A9, a Consultation Summary Report has been developed and appended to this Plan (Appendix A) to document and provide evidence of consultation undertaken in accordance with the Infrastructure Approval and outline how applicable comments received from the consultation process have been incorporated into relevant sections of this Plan.

4.2 Ongoing Consultation During Construction

Consultation between John Holland, stakeholders, the community and relevant agencies will be undertaken during the construction of the Project as required. The process for consultation will be documented in the Community and Stakeholder Engagement Plan (CSEP).

In accordance with CoA E25, unless otherwise agreed by the Planning Secretary, where the requirements set out in the amended FIA (July 2022) listed in Condition A1 cannot be met alternative flood levels or mitigation measures may be agreed to with the affected landowner. In the event that the Proponent and the affected landowner cannot agree on the measures to mitigate the impact as described in the amended FIA, the Proponent must engage a suitably qualified and experienced independent person to advise and assist in determining the impact and relevant mitigation measures.

Ongoing consultation related to flood related impacts will include consultation with, but not be limited to emergency services such as the SES and NSW Police. Key organisations identified in this FERSCP are listed in Table 5-1.

Table 5-1 List of key organisations

Organisation	Responsibility
NSW State Emergency Service	Flood planning and intelligence, dissemination of flood warnings, evacuations, and emergency help in a flood event.
Bureau of Meteorology	Flood forecasting, dissemination of flood warning, provision of real time river and rain data.
Councils	Flood intelligence and planning through flood studies and floodplain risk management studies and plans.
NSW Police	Coordination of resources or services in response to a flood emergency, respond to time critical emergency situations.

5 Existing Environment

5.1 Climate

The average yearly rainfall in the vicinity of the Project, based on the Orchards Hills station's data record (067084) is 714mm. The annual total rainfall and pan evaporation values over the 1971 to 2019 monitoring period (excluding the years with prolonged periods of missing data) are shown in Figure 6-1Review of the historical data associated with this station reveals a variable annual rainfall rate. Wetter years, i.e. 1978 and 1990, may experience rainfall in excess of 1,200 mm and drier years record less than 500 mm. The pan evaporation data fluctuates between 1,200 mm and 1,900 mm with an increasing trend observed in the total annual evaporation since 2012. The data suggests generally "wet season" from November to May" and "dry season" from June to October.

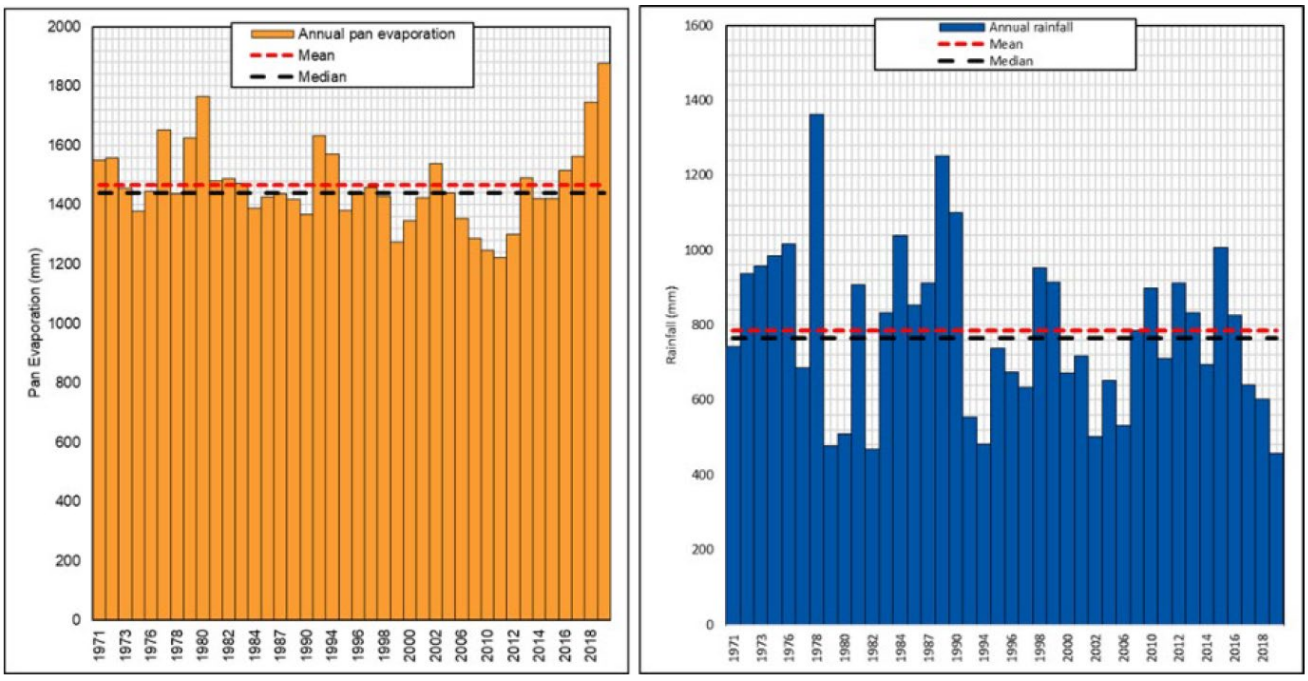

Figure 6-1 Average annual evaporation and rainfall measured (USC AWRC EIS, 2021)

5.2 Land Use

The USC AWRC site as well as a large portion of the pipeline alignments are located within the Western Sydney Aerotropolis growth area, which is currently undergoing rezoning on a regional scale.

The majority of the Project area consists of permeable landscapes, with the exception of the urbanised areas along the brine pipelines, where the presence of impervious roads and buildings will mean that a large portion of precipitation will be captured by stormwater systems and infiltration to groundwater will be limited.

5.3 Topography

The USC AWRC site is located within a regional alluvial plain associated with the South Creek and Kemps Creek watercourses. The topography in this area is predominately flat, with a gentle slope towards the north. Elevations across the centre of the USC AWRC site generally range between 35 to 40 m AHD.

The treated water pipeline follows gently sloping topographies, with elevations generally ranging from 30 m to 90 m AHD, from the low-lying areas around the South Creek/Kemps Creek (35 – 40 m AHD) through to the Nepean River valley (35 m AHD), traversing a small ridge in the vicinity of The Northern Road, Luddenham (90 m AHD).

The brine pipeline alignment, heading out east from the USC AWRC site at 40 m AHD elevation, follows gently sloping topographies, rising from 40 m AHD, before reaching a high point at Cecil Hills (80 m AHD) before sloping down again towards Prospect Creek and the Georges River in Fairfield at 10 m AHD.

5.4 Summary of Existing Flood Behaviour

The *Wianamatta South Creek – Existing Catchment Flood Study* (Advisian, May 2022) report updates and extends a previous study prepared for Penrith City Council in association with Liverpool, Blacktown and Fairfield City Councils (2015). It uses contemporary topography and more refined modelling to provide up-to-date flood information for the South Creek Catchment between Bringelly Road and Richmond Road, including tributaries such as Kemps, Bonds, Badgerys, Cosgroves and Oaky creeks. The peak flood levels from this report for design events are listed in Table 6-1 for a range of locations. The existing flood extent maps from this report are provided in Appendix B1 for the 5% AEP, 1% AEP and PMF events.

The AWRC hydraulic model prepared for the EIS was verified with regard to the *Wianamatta South Creek Catchment Flood Study* as outlined in the *Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding* document. This AWRC hydraulic model was used to map existing flood conditions within the floodplain under 5%AEP, 1%AEP, 0.5%AEP and 0.2%AEP events. A comparison of the AWRC hydraulic model prepared for the EIS with government's flood data is provided in Appendix B2.

Table 6-1 Peak Flood Levels Upstream of Major Crossings (Wianamatta South Creek Catchment Flood Study, Advisian 2022)

Location (listed from south to north)	Peak Flood Level (*mAHD*)				
	20% AEP	5% AEP ^	1% AEP ^	0.2% AEP	PMF
U/S of Elizabeth Drive					
- Cosgroves Creek	58.6	58.8	58.9	58.9	59.2
- Oaky Creek	56.4	57.7	58.1	58.1	58.4
- Badgerys Creek	46.0	46.6	46.9	47.0	47.5
- Wianamatta South Creek	42.4	42.8	43.1	43.3	44.0
- Kemps Creek	47.1	47.4	47.9	48.1	49.0
U/S Twin Creek Boulevarde - Cosgroves Creek	34.1	34.5	34.9	35.0	36.0
U/S Lenore Drive – Ropes Creek *Note: Crossing not included in 2015 Modelling*	49.6	50.0	50.2	50.5	51.4
U/S Western Motorway (M4)					
- Wianamatta South Creek	27.0	27.8	28.8	29.5	31.3
- Ropes Creek	42.0	42.4	42.8	43.2	44.9
U/S Great Western Highway					
- Claremont Creek	26.0	26.4	26.6	26.9	27.6
- Wianamatta South Creek	24.9	25.5	26.2	26.6	27.8
- Ropes Creek	36.2	36.9	37.3	37.7	38.4
U/S Western Railway Line					
- Wianamatta South Creek	23.0	23.4	24.0	24.6	27.2
- Ropes Creek	32.3	32.7	33.0	33.4	34.8
U/S Debrincat Avenue – Ropes Creek	28.4	28.8	29.1	29.4	29.9
U/S Forrester Road – Ropes Creek	24.5	24.8	25.0	25.2	27.0
U/S Ropes Crossing Boulevarde – Ropes Creek *Note: Upgraded crossing and raised road not included in 2015 Modelling*	23.5	23.9	24.3	24.7	26.9
U/S Dunheved Road					
- Werrington Creek	21.1	21.4	21.8	22.2	27.0 *
- Wianamatta South Creek	21.9	22.4	22.9	23.2	27.0 *
U/S Munitions Road					
- Wianamatta South Creek	19.2	19.7	20.25 *	20.7 21.0 *	26.9 *
- Ropes Creek	18.4	18.9	19.65 *	20.1 20.6 *	26.9 *
Upstream Eighth Avenue – Wianamatta South Creek	16.6	17.3	18.30 *	18.4 19.9 *	26.8 *

* *Denotes flood levels extracted from simulations adopting concurrent flooding along the Hawkesbury River; i.e., 1% AEP South Creek event with a 1% AEP Hawkesbury River event. Refer* ***Table 5.1*** *for adopted TWL conditions.*

^ *Peak flood levels are based on the 'peak-of-peaks' flood surface; i.e., adopting levels from simulations of either the 2, 9 and 36hr durations (refer* ***Appendix D****)*

6 Flooding and Construction Impacts

6.1 Construction Activities

Key construction activities that have the potential to affect the existing flood conditions (by inhibiting flood flows or displacing flood waters) include:

- Temporary earthworks
- Stockpiles and earth berms/ bunds
- Compounds, portable buildings and site sheds
- Materials storage or laydown
- Construction plant or equipment
- Activities within or near to watercourses such as waterway crossings.

6.2 Impacts

Potential impacts from flooding depend on the nature, extent and magnitude of construction activities, the magnitude of the storm event and the natural environment. The likelihood of a 1% annual exceedance probability (AEP) flood event during a three-year construction period is relatively low, with a 3% chance of occurrence.

Portable buildings and large unsecured construction objects have the greatest potential to affect flooding. They can be carried away by deeper floodwaters and worsen local flood conditions by blocking bridges, culverts and flood control structures downstream.

For all construction compounds and activities, including those located outside of flood-prone areas, overland flow paths during storm events may create hazardous conditions for workers, dislodge machinery and wash stockpiles and other materials away. Locations of the construction compounds are provided in Figure *7-1*.

Table 7-1 summarises potential construction flooding impacts including location and significance for the Project. Provided the management measures in Table 7-1 are implemented, all impacts with moderate significance can be reduced to low.

Table 7-1 Summary of potential temporary construction flooding impacts (USC AWRC EIS, 2021)

Location	Description of potential impact	Impact significance
Compounds C1, C3 and C8 (AWRC site)	Working on or near flood-prone land at the AWRC site, and Nepean River release locations. The impact is moderate because flooding has potential to cause hazardous working conditions due to inundation however will be short term and temporary in duration.	Moderate
Compounds C1, C2, C3, C4, C8, C9, C14	Compounds and compound construction activities have potential to change local flooding conditions. The impact is moderate because these construction compounds are located within identified 1% AEP flood extents or located near watercourses that may be susceptible to flooding.	Moderate
Compounds C5, C6, C7, C10, C11, C12, C15	These compounds are not located within identified 1% AEP flood extents or are located on locally elevated land. The impact is low because they are not likely to change local flood conditions or be affected by floodwaters.	Low
South Creek, Badgerys Creek, Nepean River, Baines Creek, Jerrys Creek, Hinchinbrook Creek, Green Valley Creek and Prospect Creek	Waterway crossings (tunnelling and trenching activities) have potential to change flooding conditions. The impact is moderate because the crossings are subject to flooding during a 1% AEP event.	Moderate
Release structure at Nepean River	In stream construction works using coffer dams and flow barriers at Nepean River have the potential to change flooding conditions. For works on Nepean River, the impact is moderate because coffer dams will reduce the channel capacity however these will not have a significant impact on the flow carrying capacity of the floodplain.	Moderate
C1, C2, C3, C4, C8, C9, C14 South Creek, Badgerys Creek, Nepean River, Baines Creek, Jerrys Creek, Hinchinbrook Creek, Green Valley Creek and Prospect Creek)	Compounds and construction near waterways may be impacted by flooding. Equipment, sheds and stored materials may get carried away in flood waters. The impact is moderate because these locations are within identified 1% AEP flood extents or located near watercourses that may be susceptible to flooding.	Moderate

Nuisance flooding may also occur as a result of localised overland flow paths and has the potential to make the worksite un-trafficable, dangerous to workers and impact on flood evacuation routes. Blockages, or high rainfall events also have the potential to exceed the capacity of the local pit and pipe networks. In these instances, it is possible that overland flow paths may be formed with high velocities and little warning.

Erosion and sediment control plans will be prepared in accordance with the Surface Water & Groundwater CEMP Sub-plan (SWGCSP) to direct site water to construction sediment basins, divert clean water around the site and for works on waterfront land to minimise the potential for soil and erosion impacts.

Construction works such as road closures and traffic diversions may also have the potential to impact on flood evacuation routes. Discussion of flood emergency response is provided in Section 8.2.

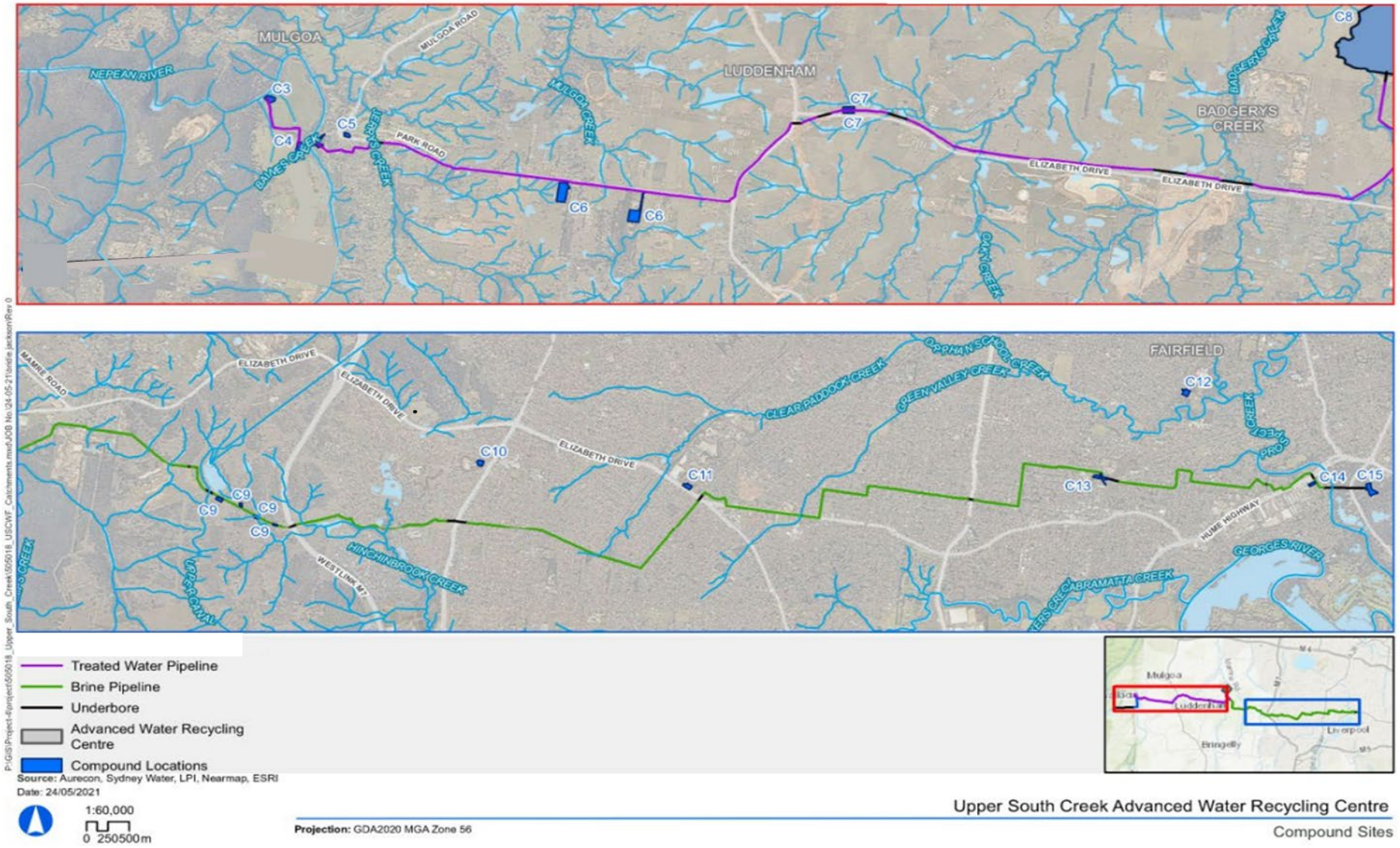

Figure 7-1 Indicative location of compounds (Source: USC AWRC response to request for information 44447594 – flooding, 11 July 2022. Image indicative only and subject to detailed design).

7 Management of Flooding

Management actions prescribed by this FERSCP aim to minimise flooding impacts and are summarised below.

7.1 Pre-Flood Actions

The following actions will be undertaken as preventative measures to prepare for flooding on site:

- Daily monitoring of Severe Weather Warnings and Detailed Severe Thunderstorm Warnings, weather forecasts and flood alerts, using the Bureau of Meteorology (BoM). There are no formal warning systems for South Creek or Kemps Creek, BoM alerts will be used to provide an indication of heavy rainfall that may lead to flash flooding.
- Training in flood emergency response will be provided to key personnel including Construction Contractor Superintendent and Foreman / Site Supervisor
- Activities that may affect existing drainage systems during construction will be planned and carried out so that existing hydraulic capacity of these systems is maintained where practicable
- Pre-rainfall inspections (of significant rainfall events) including the following tasks:
  - Minimise obstructions within flood prone areas, including stockpiles
  - Relocate waste containers, ablution facilities, chemicals and dangerous goods above flood prone areas
  - Identify plant and equipment that can be moved to higher ground
  - Inspect/repair erosion and sediment controls in accordance with the SWGCSP.

Flood response operations will begin on receipt of BoM advice (including the use of Flood Watch and the Early Warning Network), or when other evidence leads to an expectation of flooding.

7.2 Flood Emergency Response

The key principles of emergency flood response, according to the NSW State Flood Plan (March 2018) include the following:

- Protection and preservation of human life (including the lives of responders and the community) is the highest priority
- Evacuation is the primary response strategy for people impacted by flood.

Evacuation must not require people to drive or walk through flood water.

If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff

If localised heavy rainfall occurs, with associated observation of rising water level on-site or within adjacent waterway, site personnel will be directed to follow this FERSCP and relevant incident and emergency response procedures. Indicative evacuation routes are included in Appendix C.

During the flood event, the following will be undertaken:

- Continue to monitor the BoM website / app for warnings, ABC radio broadcasts, local emergency services social media pages, local news outlets and the NSW Government “Hazard near me” app.
- Follow all advice and instructions given by emergency services
- Ensure all occupants on-site are informed of the relevant incident and emergency response procedures (i.e. evacuation routes, assembly areas, rescue procedures)
- Implementation of the flood mitigation measures detailed in Section 8.4.

7.3 Post-Flood Emergency

Following flooding of the site, the initial response will be to determine whether or not it is safe to return to work. A safety walk through will be conducted. The team will assess the following:

- Likelihood of flood damage to access roads and construction works
- Determine whether flood waters have receded
- Power boxes and electrical equipment that have been inundated or water affected. The power is to remain off until assessed by the electrician.

Once it is deemed safe to return to work, the following will be undertaken:

- Any equipment, materials or debris moved by the flood water will be returned to correct area, or disposed of in accordance with the Waste & Resource Use CEMP Sub-plan (WRUCSP) if damaged beyond repair/use
- Check stockpiles for erosion or losses. Restore erosion and sediment control devices as per the SWGCSP
- Temporary onsite structures or partly constructed structures should be checked for erosion or other water damage prior to entering them or continuing work
- Determine whether any water held in excavations can be pumped to sediment basins/holding tanks for treatment prior to discharge. Any water held is to be managed in line with the SWGCSP.

7.4 Summary of Flood Management Measures

A summary of the specific flood management measures is provided in Table 8-1 below.

Table 8-1 Flood management measures.

Ref.	Requirement	Responsibility	Timing	Resources	Requirement Origin
General					
FER01	Undertake a flood impact assessment to quantify the flood risk and flood impact of temporary works and/or operations during the construction phase.	Construction Manager	Prior to construction	This FERCSP	EIS Appendix L Table 7-3
FER02	To the extent practicable, construction compounds, site sheds, stockpiles and laydown areas should be located outside the 1% AEP flood-prone areas.	Construction Manager	Prior to construction	Work packs	EIS Appendix L Table 7-3
FER03	The timing and duration of the construction activities in vicinity of waterways shall be planned to occur in times of year when the chance of a 1%AEP flood event is low, where possible.	Construction Manager	During construction	Work packs	EIS Appendix L Table 7-3
FER04	Where construction compounds are located on flood prone lands, and adverse flood impacts are not acceptable, elevate site sheds above flood waters on sturdy foundations that allow the passage of floodwater beneath the structures.	Construction Manager	During construction	Work packs	EIS Appendix L Table 7-3
FER05	Placement of stockpiles, fuels, contaminating material and loose equipment should be avoided within the construction compounds or sites affected by 1% AEP floodwaters or should be located as far as is practical from 1% AEP flood zones.	Superintendent	During construction	Work packs	EIS Appendix L Table 7-3
FER06	To the extent practicable, the ground surface slopes and imperviousness at the construction sites should be maintained close to the existing conditions.	Construction Manager	During construction	Work packs	EIS Appendix L Table 7-3
Monitoring and Pre-Flood Measures					
FER07	Monitor Bureau of Meteorology forecast for heavy rainfall events and flood warning in order to allow sufficient time to vacate and prepare the site prior to the commencement of heavy rainfall and flood events.	Superintendent, Foreman	Daily	Section 8.1	MCoAC7 UMM FL01
FER08	Relocate waste containers, chemicals and dangerous goods above flood prone areas.	Superintendent, Foreman	During construction if heavy rainfall or flood warning are predicted	Section 8.1	McoAC7 UMM FL01
FER09	Locate plant and equipment on high ground when flooding is expected.	Superintendent, Foreman	During construction if heavy rainfall or flood warning are predicted	Section 8.1	McoAC7 UMM FL01
FER10	Inspect/repair erosion and sediment controls in accordance with the SWGCSP.	Superintendent, Foreman	During construction if heavy rainfall or flood warning are predicted	Section 8.1	McoAC7 UMM FL01
Notification and Evacuation					
FER11	Upon determination of a potential heavy rainfall event, advise staff and workers to prepare for a potential flood event and follow flood emergency response procedures for evacuation.	Superintendent, Foreman	During construction if heavy rainfall or flooding is occurring	Section 8.2	McoAC7 UMM FL01

Ref.	Requirement	Responsibility	Timing	Resources	Requirement Origin
FER12	All staff to go to assembly areas and follow evacuation routes identified in Appendix C if directed prior to or during a flood event.	Superintendent, Foreman	During construction if heavy rainfall or flooding is occurring	Section 8.2	McoAC7 UMM FL01
FER13	Rescue procedure to be incorporated (and implemented as required) in the overall project-specific Emergency Response Plan.	Construction Manager, Safety Manager, Superintendent, Foreman	During construction if heavy rainfall or flooding is occurring	Section 8.2 USC Emergency Response Plan	McoAC7 UMM FL01
FER14	Continue to monitor the Bureau of Meteorology forecast.	Superintendent, Foreman	During construction if heavy rainfall or flooding is occurring	Section 8.2	McoAC7 UMM FL01
FER15	Follow all advice and instructions given by emergency services.	Superintendent, Foreman	During construction if heavy rainfall or flooding is occurring	Section 8.2	McoAC7 UMM FL01
Assessment of Damage and Remediation After Flood					
FER16	Conduct safe walk through to determine whether or not it is safe to return to work.	Superintendent, Foreman	During construction, following heavy rain or flood event	Section 8.3	McoAC7 UMM FL01
FER17	Review and restore erosion and sediment control devices as per the SWGCSP.	Superintendent, Foreman	During construction, following heavy rain or flood event	Section 8.3	McoAC7 UMM FL01
FER18	Any equipment, materials or debris moved by the flood water will be returned to correct area or disposed of in accordance with the WRUCSP if damaged beyond repair/use.	Superintendent, Foreman	During construction, following heavy rain or flood event	Section 8.3	McoAC7 UMM FL01
FER19	Dewater site water in accordance with SWGCSP.	Superintendent, Foreman	During construction, following heavy rain or flood event	Section 8.3	McoAC7 UMM FL01

8 Compliance, Review and Continuous Improvement

8.1 Resources

Roles and responsibilities related to the environment discipline are outlined in Section 3.3 of the CEMP. The USC Project's organisational structure is also included in the CEMP. Section 8 of this Plan includes specific responsibilities around flood management.

8.2 Training and Awareness

All staff and subcontractors will undergo project-specific induction training that includes relevant flood management measures, including site evacuation procedures, that must be implemented and taken into account when planning and delivering work.

Additional daily and task-specific training and awareness material may be delivered to relevant staff and workforce, in the form of toolbox talks and pre-start meetings, to ensure that where detailed information is required, it is accessible to all involved with the project.

8.3 Monitoring and Inspections

Daily informal observations will be undertaken of the construction work and will be recorded in site diaries in Project Pack Web (PPW), as required. General monitoring of construction areas will occur for evidence of adverse impact which may result from construction activities. Weekly environmental inspections will occur throughout construction and inspection and monitoring requirements relevant to flooding are summarised in Table 9-1.

Table 9-1 Inspections and monitoring relevant to flooding.

Inspection / Monitoring	Frequency	Responsibility	Document Reference
Review BoM forecast for heavy rainfall events and flood warnings	Daily	Superintendent / Foreman / Site Supervisor / Environmental Site Representative	Section 8.1
Weekly environmental inspection	Weekly	Superintendent / Foreman / Site Supervisor / Environmental Site Representative	CEMP
Pre-flood inspection Minimise obstructions within flood prone areas, identify plant and equipment that can be moved to higher ground and inspect/repair erosion and sediment controls in accordance with the SWGCSP	Prior to heavy rainfall	Superintendent / Foreman / Site Supervisor / Environmental Site Representative	Section 8.1
Post-flood inspection Conduct safe walk through to determine whether or not it is safe to return to work. Identification of erosion and sediment controls which require maintenance/repair in accordance with the SWGCSP	Following flood event	Superintendent / Foreman / Site Supervisor / Safety Representative	Section 8.3

8.4 Auditing and Reporting

Reporting requirements are documented in Section 3.9 of the CEMP.

Details of field observations shall be reported via the weekly environmental inspection checklist, and communicated to all staff during pre-starts, toolbox and team meetings, as required.

Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registered surveyor certifying finished ground levels and the dimensions and finished levels of all structures within the flood prone land, will be provided to the relevant council(s), EHG and the SES in order to assist in preparing relevant documents and to reflect changes in flood behaviour as a result of the works. The council(s), EHG and the SES will be notified in writing that the information is available no later than one month following the completion of construction. Information requested by the relevant council(s), EHG or the SES will be provided no later than six months following the completion of construction or within another timeframe agreed with the relevant council(s), EHG and the SES.

8.5 Incident Management

Any environmental incidents related to flooding will be reported in accordance with the project's environmental incident management plan (IMP), provided in Appendix A10 of the CEMP. The IMP is consistent with Sydney Water's Incident Management Procedure (DC0000506). Any overtopping of ERSED controls or flooding incident that has caused or is likely to cause material harm to the environment will be reported to Sydney Water within 30 minutes after the incident was first notified, as required by the Sydney Water Environment Incident Reporting Process (REF0866). The John Holland Regional HSEQ team is to be immediately informed of any incident that has caused or has the potential to cause material harm to the environment and will advise on the notification of relevant regulators and stakeholders.

As John Holland will be the licensee for the applicable construction Environmental Protection Licence (EPL), John Holland will undertake notification to the EPA for any pollution incidents on or around the site via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the Protection of the Environment Operations Act 1997 (NSW) (POEO Act). The circumstances where this will take place include:

- it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
- it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding $10,000 (or such other amount as is prescribed by the regulations)

A summary of project-specific flooding matters, including incident management, will be provided in the project monthly report issued to Sydney Water.

The Planning Secretary must be notified via the Major Projects Website as soon as possible and no later than 12 hours after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident.

8.6 Continuous Improvement

The Project shall continually review and improve the suitability, adequacy and effectiveness of this plan against environmental objectives, performance criteria and relevant legislative and other associated guidance documentation, for the purpose of identifying opportunities for improvement.

8.7 FERCSP Update and Change Management

The processes described in Section 3.12 of the CEMP may result in the need to update or revise this Plan. This will occur as needed. Any revisions to the FERCSP will be in accordance with the process outlined in Section 3.12 of the CEMP.

A copy of the updated plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure – refer to Section 3.10.2 of the CEMP.

Appendix A CoA A9 Consultation Summary Report

Upper South Creek

Advanced Water Recycling Centre and Pipelines

CoA A9 Consultation Summary Report
Flood Emergency Response CEMP Sub-plan

Document Number: USCP-JHG-RPT-ENV-0003
Revision: 03

Revisions and Distribution

Distribution

There are no restrictions on the distribution or circulation of this Construction Environmental Plan within John Holland.

	Uncontrolled Copy
Authorised By: Date:	Rob Cranston (Project Director)

Revisions

Draft issues of this document shall be identified as Revision 01, 02, 03 etc. Upon initial issue (generally Contract Award) this shall be changed to a sequential number commencing at Revision A. Revision numbers shall commence at Rev. A, B etc.

Date	Rev	Remarks	Section	Prepared By	Reviewed By & Approved By
12/05/2023	01	Summary of consultation from FERCSP	All	M.Segaran	A.Harrington
14/06/2023	02	Response to DPE	All	M.Segaran	A.Harrington
13/07/2023	03	Inclusion of SES correspondence	Section 2.2, Appendix 2	M.Segaran	A.Harrington

Table of Contents

1 Introduction 4
1.1 Background 4
1.2 Purpose of this Consultation Summary Report 5
1.3 CoA Compliance 5
1.4 Consultation Process 5
2 Stakeholder and Agency Consultation 6
2.1 FERCSP – EHG 6
2.2 FERCSP – SES 8
2.3 FERCSP – Relevant Council 11
Appendix 1 – EHG – Evidence of consultation 14
Appendix 2 – SES – Evidence of consultation 15
Appendix 3 - Wollondilly City Council – Evidence of consultation 16
Appendix 4 – Penrith City Council – Evidence of consultation 17
Appendix 5 – Liverpool City Council – Evidence of Consultation 18
Appendix 6 – Fairfield City Council – Evidence of Consultation 19
Appendix 7 – Canterbury Bankstown City Council – Evidence of Consultation 20
Appendix 8 – Consultation Summary Register 21

1 Introduction

1.1 Background

The Upper South Creek Advanced Water Recycling Centre and Pipelines project (the project) has been proposed to support the population growth and economic development of the Western Sydney Aerotropolis Growth Area (WSAGA or Aerotropolis), South West Growth Area (SWGA) and the new Western Sydney International Airport. The project will provide wastewater services to Western Sydney to produce high-quality treated water for non-drinking reuse and for release to local waterways.

The project will comprise the following components:

- A new Advanced Water Recycling Centre (AWRC) to collect wastewater from businesses and homes and treat it, producing high-quality treated water, renewable energy and biosolids for beneficial reuse
- A new green space area around the AWRC, adjacent to South Creek and Kemps Creek, to support the ongoing development of a green spine through Western Sydney
- New infrastructure from the AWRC to South Creek, to release excess treated water during significant wet weather events, estimated to occur about 3 – 14 days each year
- A new treated water pipeline from the AWRC to Nepean River at Wallacia Weir, to release high-quality treated water to the river during normal weather conditions
- A new brine pipeline from the AWRC connecting into Sydney Water's existing wastewater system to transport brine to the Malabar Wastewater Treatment Plant
- A range of ancillary infrastructure.

The Department of Planning and Environment (DPE) issued the final Secretary's Environmental Assessment Requirements (SEARs) for the project in January 2021. Sydney Water prepared an Environmental Impact Statement (EIS) responding to these requirements, which was on public exhibition on the major projects planning portal for 28 days from 21/10/2021 to 17/11/2021. During this time, due to its importance, the project was declared to be State Significant Infrastructure (SSI) and Critical State Significant Infrastructure (CSSI) by the then Minister for Planning and Public Spaces on 9 November 2021. Sydney Water submitted an Amendment Report for the proposal on 11 March 2022. This report provided a description of amendments to the proposal that occurred since the exhibition of the EIS. The Amendment Report was on public exhibition on the major projects planning portal from 23 March 2022 to 05 April 2022.

On 28 November 2022, the Department of Planning and Environment (DPE) approved the construction and operation of the project (SSI 8609189) (herein referred to as the USC project).

Following determination of the project at a state level by the NSW Minister for Public Spaces, the project was referred to the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) for a decision about whether the project was likely to have a significant impact on any matters of national environmental significance under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999.

A detailed description of the project is provided in Chapter 4 of the Upper South Creek AWRC Environmental Impact Statement (EIS), Volume 2.

The USC project will be built in stages, consisting of:

Stage 1

- building and operating the AWRC to treat a daily wastewater flow, known as the average dry weather flow (ADWF), of up to 50 megalitres per day (ML/day)
- building the treated water and brine pipelines to cater for up to 100 ML/day flow coming through the AWRC (but only operating them to transport and release volumes produced by Stage 1).

Future Stages

It is expected that the AWRC will ultimately require expansion to treat wastewater flows up to 100 ML/day. Sydney Water will remain flexible on the size and timing of these future upgrades to accommodate changes in population projections over time. Future stages will be subject to further environmental assessment.

Further detail on project staging is provided in the Upper South Creek AWRC EIS.

John Holland has been appointed by Sydney Water to deliver the USC project works, with detailed design and construction planning for treating a daily wastewater flow of up to 35ML/day. Greater flow capacities (including up to 50ML/day and 100ML/day, as explored in the EIS, are not covered in Stage 1. The environmental flows pipeline is not part of John Holland's scope.

1.2 Purpose of this Consultation Summary Report

This Consultation Summary Report has been prepared to meet the requirements of the CSSI approval, in particular Condition of Approval (CoA) A9. CoA A9 outlines the requirements for undertaking and documenting consultation undertaken during the preparation of approval documents or monitoring programs required under relevant CoA for those documents. This Consultation Summary Report has been prepared to consolidate the consultation undertaken during the preparation of the following document:

- CoA C4(b): Flood Emergency Response Sub-plan

Consultation required during development of this document is detailed in Table 1-1.

Table 1-1 Consultation Summary Requirements

Reference	Document Name	Consultation Requirement
CoA C4(b)	Flood Emergency Response CEMP Sub-plan	• EHG • SES • Relevant Council(s)

1.3 CoA Compliance

This section discusses the compliance of this Consultation Summary Report with the relevant CoA as applicable to consultation required to be undertaken during the development of the FERCSP.

Error! Reference source not found. lists the applicable CoA, where and how they have been addressed in this Consultation Summary Report.

Table 1-2 CoA relevant to Consultation Summary Report

CoA ID	CoA Detail	How and where addressed
A9	Where the terms of this approval require consultation to be undertaken, evidence of the consultation undertaken must be submitted to the Planning Secretary and ER (as relevant) with the corresponding documentation. The evidence must include:	This document (Consultation Summary Report)
A9	a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;	Section 2 and Appendices of Consultation Summary Report
A9	b) a log of the dates of engagement o attempted engagement with the identified party;	Section 2 and Appendices of Consultation Summary Report
A9	c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations.	Section 2 and Appendices of Consultation Summary Report
A9	d) outline of the issues raised by the identified party and how they have been addressed	Section 2
A9	e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed	Section 2
C4	The following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of all information requested by an agency during consultation must be provided to the Planning Secretary as part of any submission of the relevant CEMP Sub-plan, including copies of all correspondence from those agencies as required by Condition A9. (b) Flood emergency response – EHG, SES and relevant council(s)	Consultation Summary Report

1.4 Consultation Process

Consultation with stakeholders and agencies was undertaken using the following means:

- Formal correspondence (DPE Portal Notifications)
- Formal correspondence (standard email)
- Phone Calls

2 Stakeholder and Agency Consultation

This Section of the Consultation Summary Report provides detail of consultation undertaken with each stakeholder and agency in the preparation of the FERCSP. In particular it contains:

A consultation log that identifies:

- Consultation dates (actual and attempted)
- Form of consultation
- Whether responses and / or comments were received
- Summary of the issues raised, including how they have been addressed

Documentary evidence of all the correspondence received and sent through the consultation phase is contained in the Appendices at the end of this Report. The Appendices and this Section are broken down by stakeholder and agency, not by issue.

2.1 FERCSP – EHG

Consultation with EHG commenced on 02 March 2023 and concluded 15 March 2023.

Table 2-1 below includes the details of engagement between USC and EHG regarding the FERCSP.

Table 2-2 includes a summary of the issues raised, how those were addressed and closed out. Full evidence of correspondence is in Appendix 1 of this report.

Table 2-1 Engagement log – FERCSP - EHG

#	Date	Correspondence		From	Recipient
		Form/Type	Purpose		
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Marnie Stewart (EHG)
2	29-03-2023	Email	Respond to consultation	Marnie Stewart (EHG)	Alyce Harrington (JHG)
3	29-03-2023	Respond letter	Respond to consultation with comments	Susan Harrison	Alyce Harrrington
4	11-05-2023	Email	Response to comments from EHG	Alyce Harrington	Susan Harrison
5	09-06-2023	Email	Closing out of consultation with EHG	Marnie Stewart	Alyce Harrington

Table 2-2 below summarises the consultation comments received from EHG on the FERCSP.

Table 2-2 Summary of issues – FERCSP – EHG

Comment Raised	Date Raised	How Addressed / Justification Why Not Addressed
The consultant preparing the Flood Emergency Response CEMP Sub-plan must be provided with the latest amended flood assessment results as provided to EHG in July 2022.	29/03/2023	Noted. The Flood Emergency Response CEMP Sub-plan (FERCSP) has been reviewed and updated (where necessary) with regard to the document 'Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding', dated 11 July 2022
EHG notes that, the Flood Emergency Response CEMP Sub-plan is based on the Flood Impact Assessment provided with the USC AWRC EIS in September 2021. This is significantly concerning to EHG. Table 6 (pg 18) refers to USC AWRC EIS, 2021 and the figures provided in appendix B Figures B.1 to B.3 confirm that the Flood Emergency Response CEMP Sub-plan is not based on the latest flood re-modelling but on the obsolete USC AWRC EIS flood assessment September 2021.	29/03/2023	The FERCSP has been reviewed and updated including, but not limited to, Section 6.4 (Summary of existing flood behaviour) and Appendix B, which have both been updated in line with the document 'Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding', dated 11 July 2022; and the Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022) report. It is noted as indicated in the document Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding', the USC AWRC EIS flood assessment (September 2021) (i.e. the AWRC EIS hydraulic model) produces a 1% AEP flood extent which is a very close match with the NSW Government's 1% AEP flood extent. The AWRC EIS hydraulic model therefore reasonably predicts the hydraulic characteristics of the 1% AEP event.
As indicated above, EHG raises significant concerns as it appears that the consultant preparing the Flood Emergency Response CEMP Sub-plan is not aware of the flood remodelling undertaken by the proponent in July 2022 on the request of DPE Planning and EHG to ensure the flood assessment is compatible with the Wianamatta South Creek Flood Study – Existing Condition (Rev I).	29/03/2023	Reference to the Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022) (Advisian, May 2022) has been included in Section 4 – Legislative and Guidance Requirements. The peak flood levels and flood mapping from this report for design events are listed in Table 6-1 for a range of locations and flood extents provided in Appendix B.
The re-modelled flood results have been provided to EHG and DPE Planning in a brief report titled The Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 - Flooding 11 July 2022. The consultant must be provided with this report and the re- modelled flood results and utilise this information to prepare the Flood Emergency Response CEMP Sub-plan.	29/03/2023	Noted. The FERCSP has been reviewed and updated (where necessary) with regard to the document 'Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding', dated 11 July 2022
The consultant can download the Wianamatta South Creek Flood Study – Existing Condition (Rev I) from the NSW Flood Data Portal Wianamatta South Creek Catchment Flood Study - Existing Conditions (Rev I) - Flood Projects - NSW Flood Data Portal.	29/03/2023	Noted. The document has been downloaded and the FERCSP has been updated. The peak flood levels for design events for a range of locations are listed in Table 6-1 and flood map extents included for a range of design storm events in Appendix B.
Similarly, the flood management measures identified in Table 8-1 including the flood impact assessment must be based on the re-modelled flood assessment as presented in the 'Response to Request for Information' report July 2022.	29/03/2023	Noted in accordance with mitigation measure FER01, a flood impact assessment will be undertaken to quantify the flood risk and flood impact of temporary works and/or operations during the construction phase. This will consider the documents identified within the FERSCP, including the re-modelled flood assessment as presented in the 'Response to Request for Information' report July 2022.

Comment Raised	Date Raised	How Addressed / Justification Why Not Addressed
		The remaining management measures identified in Table 8-1 have been reviewed and are applicable. Management measures have been informed by the updated modelling assessments (i.e. flood extents), updated management measures (UMM) within Appendix B of the Submissions Report, Minister's Conditions of Approval (MCOA) and best practice.
Section 7.2 describes the potential impact on the construction compounds and its significance. The section should provide maps for the location of these compounds (C1 - C15) and the location of Nepean River instream construction works. Without this information it is not possible to review this section.	29/03/2023	Figure 7-1 has been included to show the indicative location of these compounds and water crossings

2.2 FERCSP – SES

Consultation with EHG commenced on 02 March 2023 and concluded 15 March 2023.

Table 2-3 below includes the details of engagement between USC and SES regarding the FERCSP. Table 2-4 includes a summary of the issues raised, how those were addressed and closed out. Full evidence of correspondence is in Appendix 2 of this report.

Table 2-3 Engagement log – FERCSP – SES

#	Date	Correspondence		From	Recipient
		Form/Type	Purpose		
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Peter Cinque Joanne Humpries
2	14-03-2023	Email	Request of extension to 22-03-2023	Sharon Ladeira	Alyce Harrington
3	22-03-2023	Email	Response to FERCSP sub-plan	Sharon Ladeira	Alyce Harrington
4	22-03-2023	Document attached to email	Response to FERCSP sub-plan	Elspeth O'Shannessy	Alyce Harrington
5	11-05-2023	Email	Response to comments raised	Alyce Harrington	Sharon Ladeira
6	28-06-2023	Email	Follow up on comments raised	Alyce Harrington	Peter Cinque Joanne Humpries Shelly Stingmore
7	29-06-2023	Email	Request that response will be given on the 13/07/2023	Daniela Mitreski	Alyce Harrington
8	12-07-2023	Email	Follow up on comments raised	Alyce Harrington	rra@ses.nsw.gov.au
9	13-07-2023	Email	Confirmation that no further comments are outstanding	Elspeth O'Shannessy	Alyce Harrington

Table 2-4 below summarises the consultation comments received from SES on the FERCSP. Appendix 3 of this report provides evidence of the comments received with their closeout detailed in Table 2-4 below.

Table 2-4 Summary of issues – FERCSP – SES

Comment Raised	Date Raised	How Addressed / Justification Why Not Addressed
It is noted that the sections of the proposed work sites are prone to flooding in a 20% AEP event, with depths of up to 2m in a Probable Maximum Flood (PMF)12. The flood maps provided as part of the FERS only show the 1% AEP, and only for the proposed Advanced Water Recycling Centre.	22/03/2023	It is noted that the previous Table 6-1 (Existing flood conditions) identified the broader catchment conditions, not the existing flood conditions at the exact location of the proposed works. For example, the location of the USC AWRC site is at a topographically high location above the modelled 1% AEP flood level. The previous reference with depths of up to 2m in a Probable Maximum Flood (PMF) was in relation to the broader South Creek catchment (not the location of the proposed works). Flood mapping has been updated consistent with the flood extent mapping from the Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022). This includes the 5% AEP, 1% AEP and PMF events. It is noted that 20% AEP flood event mapping is not available as part of this document, however it is considered that that the 5% AEP is appropriate.
We would like to seek a copy of the Flood Impact Assessment referred to within the CEMP.	22/03/2023	The Flood Impact Assessment can be found at the following web-links: • EIS Appendix L Flood Impact Assessment (Part 1) • EIS Appendix L Flood Impact Assessment (Part 2) • RTS Appendix C Addendum to Flood Assessment • Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 - Flooding
The proposed Advanced Water Recycling Centre also relies on a route which crosses over Kemps Creek. The FERS should be updated to include the height of the bridge and the depth at which this route becomes flooded, and therefore when evacuation is required to be complete by.	22/03/2023	Peak flood levels, as per the Wianamatta South Creek Catchment Flood Study (Advisian 2022) have been included in Table 6-1 of the EIS. This includes the peak flood levels for Kemps Creek (upstream of Elizabeth Drive). Please note that John Holland has reached out to TfNSW requesting this information and will incorporate the information into relevant sections of the FERCSP once received.
The flood information provided also appears to focus only on riverine flooding. It is recommended that overland flooding is considered with respect to local roads.	22/03/2023	Overland flows/flooding from adjacent rivers/creeks during extreme rainfall events is considered the primary risk. Nuisance flooding as a result of localised overland flow paths could make the worksites un-trafficable or dangerous to workers. Blockages, or high rainfall events have potential to exceed the capacity of the local pit and pipe networks. In these instances it is possible that overland flow paths may be formed with high velocities and little warning. Erosion and sediment control plans would be prepared in accordance with the Surface Water & Groundwater CEMP Sub-plan (SWGCSP) to direct site water to construction sediment basins, divert clean water around the site and for works on waterfront land to minimise the potential for soil and erosion impacts. This has been added to Section 7 and additional mitigation in Section 8.

Comment Raised	Date Raised	How Addressed / Justification Why Not Addressed
Parts of the proposed Advanced Water Recycling Centre would have a hazard classification of H6 during a 1% AEP event, which is the highest hazard classification and is not safe for people, vehicles, or buildings. It is also noted that the adjacent roads to the sites may be cut by floodwaters with the sites becoming isolated well before the 1% AEP flood event.	22/03/2023	An additional call out box has been included in Section 8.2 which states that: "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff." Closing the sites prior to the potential impact of flooding will be the main management measure to minimise the risks to staff working at USC AWRC.
The local and regional road network is also prone to local and riverine flooding and would require persons onsite to have adequate time to self-evacuate prior to the roads becoming flooded. Evacuation must not require people to drive or walk through flood water. Therefore ideally the sites would be closed prior to the impact of flooding.	22/03/2023	Added in an additional call out box in Section 8.2 which states that "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff."
Consideration should also be given to the impacts of localised flooding on evacuation routes. There are no formal warning systems for South Creek or Kemps Creek, therefore there will be little to no warning time and no formal warnings. The Bureau of Meteorology do provide Severe Weather Warnings and Detailed Severe Thunderstorm Warnings which can provide an indication of heavy rainfall that may lead to flash flooding.	22/03/2023	Section 8.1 does include the requirement for "Daily monitoring of weather forecasts and flood alerts, using the BoM" This bullet has been updated as follows to specifically include the lack of alerts for South and Kemps Creek: "Daily monitoring of severe Weather Warnings and Detailed Severe Thunderstorm Warnings, weather forecasts and flood alerts, using the BoM. There are no formal warning systems for South Creek or Kemps Creek, BoM alerts should be used to provide an indication of heavy rainfall that may lead to flash flooding".
Although evacuation is the primary strategy as mentioned in section 8 of the FERP, we recommend this should be reworded to clarify that the primary strategy is ensuring early closure of the sites, for instance based on a severe weather warning for flash flooding or as there is no flood warning system and there is likely to be rapid rises, on the first sign of flooding. More information on local overland flooding and flash flood hotspots may be required to adequately assess risk for the sites.	22/03/2023	As mentioned above, an additional call out box in Section 8.2 has been added which states that: "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff." Additionally, in accordance with mitigation measure FER01, a flood impact assessment will be undertaken quantify the flood risk and flood impact of temporary works.
In summary, the preferred emergency strategy for the sites is early closure prior to the commencement of flooding and before the start of the working day.	22/03/2023	Noted. The assumption that mass rescue is possible is not a governing principal. The mitigation measures identify the key stage of flood management including general measures (FER01 to FER06), monitoring and pre-flood measures (FER07 to FER10), evacuation measures (FER11 to FER15) and post flooding measures (FER16 to FER 19). In addition, as mentioned above, an additional call out box in Section 8.2 has been added which states that: "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff." This aims to minimise the need for mass rescue.

2.3 FERCSP – Relevant Council

Consultation with the DPE Water commenced on 02 March 2023 and concluded 15 March 2023.

Error! Reference source not found. below includes the details of engagement between USC and the relevant councils regarding the FERCSP. **Error! Reference source not found.** includes a summary of the issues raised, how those were addressed and closed out. Full evidence of correspondence with relevant councils is provided in the following Appendices:

Appendix 3 - Wollondilly Shire Council
Appendix 4 - Penrith City Council
Appendix 5 - Liverpool City Council
Appendix 6 - Fairfield City Council
Appendix 7 - Canterbury Bankstown City Council

Table 2-5 Engagement log – FERCSP – Relevant Councils

#	Date	Correspondence		From	Recipient
		Form/Type	Purpose		
Wollondilly Shire Council					
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Bianca Klein
2	08-03-2023	Meeting	Stakeholder Meeting with Council on 50% design completion	Michael Robertson Rama Sapkota	Ibrahim Muharrem Trent Davies Matthew Hardland Nafizul Akash
3	28-03-2023	Email	Acknowledgement of recent workshop and confirmation of key council contacts	Alyce Harrington	Bianca Klein Mathew Harland Nafizul Akash Ibrahim Muharrem
4	26-04-2023	Email	Notification regarding end of consultation period	Alyce Harrington	Bianca Klein Mathew Harland Nafizul Akash Ibrahim Muharrem
Penrith City Council					
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Ari Fernando
2	03-03-2023	Meeting	Stakeholder Meeting with Council on 50% design completion	Michael Robertson Rama Sapkota	Scott Jones Michael Middleton Adam Lowe Brad James Justine Vella Ari Fernando Payton Bradrock Murray Halls
3	03-04-2023	Email	Follow up on progression of all sub-plan comments	Alyce Harrington	Ari Fernando
4	26-04-2023	Email	Notification regarding end of consultation period	Alyce Harrington	Ari Fernando
Liverpool City					
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Jerard Tungcab
2	09-03-2023	Meeting	Stakeholder Meeting with Council on 50% design completion	Michael Robertson Rama Sapkota	Jerard Tungcab Kweky Aikins Riham Gergis Stella Qu Mahavir Arya
2	24-03-2023	Phone Call	Query regarding the response date for the sub-plan	Jerard Tungcab	Alyce Harrington

#	Date	Correspondence		From	Recipient
		Form/Type	Purpose		
3	24-03-2023	Email	Request for comments from consultation to be sent through	Alyce Harrington	Jerard Tungcab
4	26-04-2023	Email	Notification regarding end of consultation period	Alyce Harrington	Jerard Tungcab
5	08-05-2023	Email	Respond to consultation. Comments raised	Jerard Tungcab	Alyce Harrington
6	11-05-2023	Email	Response to comments raised	Alyce Harrington	Jerard Tungcab
Fairfield City Council					
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Alison Mortimer
2	13-03-2023	Meeting	Stakeholder Meeting with Council on 50% design completion	Michael Robertson Rama Sapkota	Andrew Mooney Kerren Ven Mursaleen Shah Zahid Hassan
3	03-04-2023	Email	Follow up on progression of all sub-plan comments	Alyce Harrington (JHG)	Mursaleen Shah
4	04-04-2023	Email	Respond to follow up by John Holland	Mursaleen Shah	Alyce Harrington
5	04-04-2023	Email	Request to remove individual as point of contact	Mursaleen Shah	Alyce Harrington
6	26-04-2023	Email	Notification regarding end of consultation period	Alyce Harrington	Alison Mortimer Daniel Begnell Zahid Hassan mail@fairfieldcity.com.au
Canterbury Bankstown City Council					
1	02-03-2023	Email	Issuing of sub-plan for consultation in accordance with CoA C4	Alyce Harrington (JHG)	Peter Lay Tim Ireland Paul Angel
2	23-03-2023	Email	Respond to consultation with comments	David Milner	Alyce Harrington
3	11-05-2023	Email	Response to comments raised	Alyce Harrington	David Milner

Error! Reference source not found. below summarises the consultation comments received from the relevant councils on the FERCSP.

Table 2-6 Summary of issues –FERCSP – Relevant Councils

Council	Comment Raised	Date Raised	How Addressed / Justification Why Not Addressed
Canterbury Bankstown	Section 2.1 (context) reported as This Floor Emergency Response CEMP Sub-plan (FERCSP) should be amended as This Flood Emergency Response CEMP Sub-plan (FERCSP)	23/03/2023	Section 2.1 has been updated
Canterbury Bankstown	Section 4 LEGISLATIVE AND GUIDANCE REQUIREMENTS reported Canterbury-Bankstown Council LGA, Georges River Floodplain Risk Management Study and Plan (Bewsher Consulting Pty Ltd, 2014) published year should be amended as 2004	23/03/2023	Reference has been updated
Canterbury Bankstown	Hazard near me app (developed by the NSW Government) should be also listed in Section 8.2	23/03/2023	Reference to the app has been added
Liverpool	It is noted that Elizabeth Drive is the only evacuation route to the subject site. As the section of Elizabeth Drive between Clifton Avenue and Mamre Road is located within high-risk flood zone. Early evacuation or warning should be provided prior to and during major flooding events. Consultation is required with TfNSW M12 Motorway project whether any new flood emergency route will be available via the M12 Motorway in future.	08/05/2023	Noted. Additional information included in Section 8.2 of the revised FERCSP which states that: "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff." Closing the sites prior to the potential impact of flooding will be the main management measure to minimise the risks to staff working at USC AWRC. This requirement is included in Section 8.1 of the FERCSP which states the project's pre-flood actions to be taken.
Fairfield	No response received	N/A	N/A
Wollondilly	No response received	N/A	N/A
Penrith	No response received	N/A	N/A

Appendix 1 – EHG – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)
Date:	Wednesday, 8 March 2023 2:14:43 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

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Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 5:01 PM
To: marnie.stewart@environment.nsw.gov.au
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Good afternoon Marnie,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including the Environment & Heritage Group (EHG) within the

NSW Department of Planning and Environment. A list of the plans and programs relevant to EHG is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)

John Holland proposes to issue the relevant plans and program progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to EHG, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for EHG reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)
Date:	Wednesday, 29 March 2023 11:24:14 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png DOC23 175216 EHG comments - USCAWRC Flood Emergency Response CEMP sub plan.DOCX.pdf

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Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

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From: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au> **On Behalf Of** OEH ROG Greater Sydney Region Planning Unit Mailbox
Sent: Wednesday, 29 March 2023 11:04 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Nathan Heath <Nathan.Heath@planning.nsw.gov.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Hi Alyce

Please find attached EHG comments.

Regards,

Marnie Stewart
Senior Project Officer – Planning
Greater Sydney

Biodiversity & Conservation|Environment and Heritage
Department of Planning and Environment
T 02 9995 6868 | **E** marnie.stewart@environment.nsw.gov.au
4 Parramatta Square, 12 Darcy St, Parramatta NSW 2150
www.dpie.nsw.gov.au

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, 2 March 2023 5:01 PM
To: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: HPE CM: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Good afternoon Marnie,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including the Environment & Heritage Group (EHG) within the NSW Department of Planning and Environment. A list of the plans and programs relevant to EHG is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)

John Holland proposes to issue the relevant plans and program progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to EHG, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for EHG reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

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Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment, Energy and Science.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Department of Planning and Environment

Our ref: DOC23/175216

Alyce Harrington
Environment and Approvals Manager
Upper South Creek
John Holland
Email: Alyce.Harrington@jhg.com.au

29 March 2023

Subject: Upper South Creek Advanced Water Recycling Centre (SSI 8906189) - Flood Emergency Response CEMP Sub-plan - post approval consultation

Dear Ms Harrington

Thank you for your email received 2 March 2023 seeking consultation with the Environment and Heritage Group (EHG) on the Upper South Creek Advanced Water Recycling Centre (USC AWRC) (SSI 8906189) Flood Emergency Response Construction Environmental Management Plan (CEMP) Sub-plan.

EHG notes that the post approval consultation is requested in accordance with condition of approval (CoA) C4(b) which states:

C4 The following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of all information requested by an agency during consultation must be provided to the Planning Secretary as part of any submission of the relevant CEMP Sub-plan, including copies of all correspondence from those agencies as required by Condition A9.

	Required CEMP Sub-plan	Relevant government agencies to be consulted for each CEMP Sub-plan
(a)	Surface water and groundwater	EPA, EHG, DPE Water, DPI Fisheries, WaterNSW and relevant council(s)
(b)	Flood emergency response	EHG, SES, relevant council(s)
(c)	Soils and contamination	EPA and relevant council(s)
(d)	Biodiversity	EHG, DPI Fisheries and relevant council(s)
(e)	Noise and vibration	EPA, WaterNSW and relevant council(s)
(f)	Traffic and transport	TfNSW and relevant council(s)
(g)	Heritage (Aboriginal, non-Aboriginal, World and National heritage)	Heritage NSW, EHG, WaterNSW and relevant council(s)
(h)	Air quality	EPA and relevant council(s)

***Note**: **CEMP Sub-plan(s)** may reflect the construction of the project through geographical activities, temporal activities or activity based staging.*

It is also noted that CoA C7 states:

C7 The Flood Emergency Response CEMP Sub-Plan must include measures for managing flood risks during construction and address flood recovery.

EHG has reviewed the Flood Emergency Response CEMP Sub-plan and provides the following comments.

The consultant preparing the Flood Emergency Response CEMP Sub-plan must be provided with the latest amended flood assessment results as provided to EHG in July 2022.

EHG notes that, the Flood Emergency Response CEMP Sub-plan is based on the Flood Impact Assessment provided with the USC AWRC EIS in September 2021. This is significantly concerning to EHG. Table 6 (pg 18) refers to USC AWRC EIS, 2021 and the figures provided in appendix B Figures B.1 to B.3 confirm that the Flood Emergency Response CEMP Sub-plan is not based on the latest flood re-modelling but on the obsolete USC AWRC EIS flood assessment September 2021.

As indicated above, EHG raises significant concerns as it appears that the consultant preparing the Flood Emergency Response CEMP Sub-plan is not aware of the flood remodelling undertaken by the proponent in July 2022 on the request of DPE Planning and EHG to ensure the flood assessment is compatible with the Wianamatta South Creek Flood Study – Existing Condition (Rev I).

The re-modelled flood results have been provided to EHG and DPE Planning in a brief report titled *The Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 - Flooding 11 July 2022.* The consultant must be provided with this report and the re-modelled flood results and utilise this information to prepare the Flood Emergency Response CEMP Sub-plan.

The consultant can download the Wianamatta South Creek Flood Study – Existing Condition (Rev I) from the NSW Flood Data Portal Wianamatta South Creek Catchment Flood Study - Existing Conditions (Rev I) - Flood Projects - NSW Flood Data Portal.

Similarly, the flood management measures identified in Table 8-1 including the flood impact assessment must be based on the re-modelled flood assessment as presented in the 'Response to Request for Information' report July 2022.

Section 7.2 describes the potential impact on the construction compounds and its significance. The section should provide maps for the location of these compounds (C1 - C15) and the location of Nepean River instream construction works. Without this information it is not possible to review this section.

If you have any queries please contact Marnie Stewart, Senior Project Officer Planning Officer via Marnie.stewart@environment.nsw.gov.au.

Yours sincerely

S. Harrison

Susan Harrison
Senior Team Leader Planning
Greater Sydney Branch
Biodiversity and Conservation

From:	Alyce Harrington-JHG
To:	Marnie Stewart
Cc:	CAHILL, CHERYL; Cameron Varricchio; Mira Segaran-JHG
Subject:	RE: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)
Date:	Thursday, 11 May 2023 8:22:31 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 04)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0004 - Flood Emergency Response CEMP Sub-plan (Rev 04)_Track Change (1).docx

Good evening Marnie,

Please see attached updated Flood Emergency Response CEMP Sub-plan for the Upper South Creek AWRC project.

Note that the document has been provided in a clean and consolidate PDF with all relevant appendices included, and also a Word version with tracked changes enabled to assist with identifying where amendments have been made in accordance with comments / feedback provided by EHG in earlier correspondence.

If you have any questions regarding this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au> **On Behalf Of** OEH ROG Greater Sydney Region Planning Unit Mailbox
Sent: Wednesday, 29 March 2023 11:04 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Nathan Heath <Nathan.Heath@planning.nsw.gov.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Hi Alyce

Please find attached EHG comments.

Regards,

Marnie Stewart
Senior Project Officer – Planning
Greater Sydney

Biodiversity & Conservation|Environment and Heritage
Department of Planning and Environment
T 02 9995 6868 | **E** marnie.stewart@environment.nsw.gov.au
4 Parramatta Square, 12 Darcy St, Parramatta NSW 2150
www.dpie.nsw.gov.au

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, 2 March 2023 5:01 PM
To: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: HPE CM: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Good afternoon Marnie,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including the Environment & Heritage Group (EHG) within the NSW Department of Planning and Environment. A list of the plans and programs relevant to EHG is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)

John Holland proposes to issue the relevant plans and program progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to EHG, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for EHG reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment, Energy and Science.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From:	Alyce Harrington-JHG
To:	CAHILL, CHERYL; Cameron Varricchio
Cc:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)
Date:	Friday, 9 June 2023 3:33:09 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

---

FYI

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au>
Sent: Friday, June 9, 2023 3:32 PM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Nathan Heath <Nathan.Heath@planning.nsw.gov.au>
Subject: RE: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Hi Alyce

Thank you for your emails.

The following EHG comments on the Flood Emergency Response CEMP Sub-plan pertain to the content outlined in the following documents:
(1) The Upper South Creek - Consultation Register - Flood Emergency Response; and
(2) The Flood Emergency Response CEMP Sub-plan dated 11 May 2023

The consultant's response to EHG's submission, states *The Flood Emergency Response CEMP Sub-plan (FERCSP) has been reviewed and updated (where necessary) with regard to the document 'Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding', dated 11 July 2022.* The updated Flood Emergency Response CEMP Sub-plan appears to support this statement. Accordingly, EHG comments provided in March 2023 have been addressed.

Consultation with the State Emergency Service is prudent to ensure that the evacuation strategy proposed in the Flood Emergency Response CEMP Sub-plan can be undertaken consistent with the Local Flood Plan or SES flood emergency strategy for the area.

No further consultation with EHG is required regarding the Flood Emergency Response CEMP Sub-plan.

Kind regards,

Marnie Stewart
Senior Project Officer – Planning
Greater Sydney

Biodiversity & Conservation|Environment and Heritage
Department of Planning and Environment
T 02 9995 6868 | **E** marnie.stewart@environment.nsw.gov.au
4 Parramatta Square, 12 Darcy St, Parramatta NSW 2150
www.dpie.nsw.gov.au

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, 11 May 2023 8:54 PM
To: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>
Subject: RE: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Apologies Marnie, in my earlier correspondence I forgot to attached the corresponding comment register for your information.

Thank you,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Alyce Harrington-JHG
Sent: Thursday, 11 May 2023 8:21 PM
To: Marnie Stewart <marnie.stewart@environment.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
Subject: RE: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Good evening Marnie,

Please see attached updated Flood Emergency Response CEMP Sub-plan for the Upper South Creek AWRC project.

Note that the document has been provided in a clean and consolidate PDF with all relevant appendices included, and also a Word version with tracked changes enabled to assist with identifying where amendments have been made in accordance with comments / feedback provided by EHG in earlier correspondence.

If you have any questions regarding this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

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Sent: Wednesday, 29 March 2023 11:04 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Nathan Heath <Nathan.Heath@planning.nsw.gov.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

Hi Alyce

Please find attached EHG comments.

Regards,

Marnie Stewart
Senior Project Officer – Planning
Greater Sydney

Biodiversity & Conservation|Environment and Heritage
Department of Planning and Environment

T 02 9995 6868 | **E** marnie.stewart@environment.nsw.gov.au
4 Parramatta Square, 12 Darcy St, Parramatta NSW 2150
www.dpie.nsw.gov.au

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, 2 March 2023 5:01 PM
To: Marnie Stewart <Marnie.Stewart@environment.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: HPE CM: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (EHG)

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a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)

John Holland proposes to issue the relevant plans and program progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to EHG, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for EHG reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Appendix 2 – SES – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)
Date:	Wednesday, 8 March 2023 2:14:51 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

---

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 5:10 PM
To: peter.cinque@ses.nsw.gov.au; joanne.humphries@one.ses.nsw.gov.au
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good afternoon Peter and Joanne,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 requires a number of CEMP Sub-plans to support the CEMP and they must be developed in consultation with relevant government agencies, including the NSW State Emergency Services (SES). Of the CEMP Sub-plans listed in CoA C4, the project approval requires consultation with

the NSW SES for the Flood Emergency Response CEMP Sub-plan.

As such, John Holland on behalf of Sydney Water, is please to present to the NSW SES, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for NSW SES reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Request Extension ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)
Date:	Friday, 17 March 2023 11:57:48 AM
Attachments:	image007.png image008.png image009.png image010.png image011.png image012.png image016.png

---

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Alyce Harrington-JHG
Sent: Friday, 17 March 2023 11:55 AM
To: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Cc: CHERYL.CAHILL@sydneywater.com.au; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>
Subject: RE: Request Extension ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Hello Sharon,

Thanks so much for reaching out, I really appreciate the information provided and will make note of the extension date.

Look forward to hearing from you then.

Cheers,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW

M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Sent: Tuesday, 14 March 2023 1:14 PM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: CHERYL.CAHILL@sydneywater.com.au; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Subject: RE: Request Extension ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good afternoon Alyce

The general timeframe for responses is 3-4 weeks, however staff have been involved in NSW SES Operations and other priority tasks related to the recent floods, which is resulting in a delay in response times.

If possible, could we please request an extension until Wednesday 22 March to provide a response?

Thank you for your understanding.

Kind regards

Sharon Ladeira
Program Support Officer | Metro Operations
NSW State Emergency Service – Emergency Risk Management
E rra@ses.nsw.gov.au

93-99 Burelli Street Wollongong NSW 2500
PO Box 6216 Wollongong NSW 2500
www.ses.nsw.gov.au

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OUR VISION: A TRUSTED VOLUNTEER-BASED EMERGENCY SERVICE, WORKING TOGETHER TO DELIVER EXCELLENCE IN COMMUNITY PREPAREDNESS AND EMERGENCY RESPONSE.

FOR EMERGENCY HELP IN FLOODS, STORMS AND TSUNAMI CALL THE NSW SES ON 132 500

The NSW SES acknowledges the traditional custodians of the lands on which we walk,

work and live. We recognise their continuing connection to land, waters and culture and pay respect to Elders, past and present.

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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, March 2, 2023 5:10 PM
To: Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

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Good afternoon Peter and Joanne,

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CoA C4 requires a number of CEMP Sub-plans to support the CEMP and they must be developed in consultation with relevant government agencies, including the NSW State Emergency Services (SES). Of the CEMP Sub-plans listed in CoA C4, the project approval requires consultation with the NSW SES for the Flood Emergency Response CEMP Sub-plan.

As such, John Holland on behalf of Sydney Water, is please to present to the NSW SES, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for NSW SES reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)
Date:	Monday, 17 April 2023 9:35:11 AM
Attachments:	image004.png image007.png image008.png image009.png image010.png image011.png image012.png 20230322 NSW SES ID1893 Response FERP Upper South Creek Advanced Water Recycling Centre.pdf

---

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Sent: Wednesday, 22 March 2023 4:59 PM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: CHERYL.CAHILL@sydneywater.com.au; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; NSW SES Risk Reduction <rra@ses.nsw.gov.au>; Shelly Stingmore <shelly.stingmore@one.ses.nsw.gov.au>
Subject: RE: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good afternoon Alyce

Sincere apologies for the delay in providing a response.

Thank you for providing NSW SES the opportunity to review the proposed ID1893. Please find NSW SES response attached for consideration.

Kind regards

SES

Sharon Ladeira
Program Support Officer | Metro Operations
NSW State Emergency Service – Emergency Risk Management
E rra@ses.nsw.gov.au

93-99 Burelli Street Wollongong NSW 2500
PO Box 6216 Wollongong NSW 2500
www.ses.nsw.gov.au

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FOR EMERGENCY HELP IN FLOODS, STORMS AND TSUNAMI CALL THE NSW SES ON 132 500

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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, March 2, 2023 5:10 PM
To: Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

EXTERNAL EMAIL: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good afternoon Peter and Joanne,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared

a Construction Environmental Management Plan (CEMP).

CoA C4 requires a number of CEMP Sub-plans to support the CEMP and they must be developed in consultation with relevant government agencies, including the NSW State Emergency Services (SES). Of the CEMP Sub-plans listed in CoA C4, the project approval requires consultation with the NSW SES for the Flood Emergency Response CEMP Sub-plan.

As such, John Holland on behalf of Sydney Water, is please to present to the NSW SES, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for NSW SES reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
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E. Alyce.Harrington@jhg.com.au

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Our Ref: ID1893
Your Ref: SSI-8609189

22 March 2023

Alyce Harrington
John Holland
Level 3, 65 Pirrama Road
Pyrmont NSW 2009

email: Alyce.Harrington@jhg.com.au
cc: shelly.stingmore@one.ses.nsw.gov.au

Dear Alyce,

Flood Emergency Response Plan for Upper South Creek Advanced Water Recycling Centre

Thank you for the opportunity to provide comment on the Flood Emergency Response Plan (FERP) for the proposed development at Upper South Creek Advanced Water Recycling Centre. We note that this project is comprising of:

- 40ha of operational area
- 38ha of green space
- 16.7km of treated water pipeline
- 24km of brine pipeline
- other additional structures including pipeline release structures at Nepean River.

The NSW State Emergency Service (NSW SES) is the agency responsible for dealing with floods, storms and tsunami in NSW. This role includes, planning for, responding to and coordinating the initial recovery from floods. As such, the NSW SES has an interest in the public safety aspects of the development of flood prone land, particularly the potential for changes to land use to either exacerbate existing flood risk or create new flood risk for communities in NSW.

It is the preference of NSW SES that all development follows the application of sound land use planning and flood risk management. This includes site design and stormwater management measures that minimise any risk to the community. Furthermore, schools or sections of schools that are at known risk of flooding or isolation are closed prior to flooding commencing and when there is an indication that flooding is likely, for example, when there is a flood warning.

In accordance with sections 3.6, A-5, L-5, L-6.9.6 and N-7 of the NSW Floodplain Development Manual, 2005 (the Manual), the NSW SES is opposed to the imposition of development consent conditions requiring private flood evacuation plans rather than the application of

STATE HEADQUARTERS
93 - 99 Burelli Street, Wollongong 2500
PO Box 6126, Wollongong NSW 2500
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F (02) 4251 6190
www.ses.nsw.gov.au
ABN: 88 712 649 015

sound land use planning and flood risk management. The NSW SES also does not have statutory authority to endorse or approve flood emergency response plans, which is referred to in the Manual (particularly section N7). However, we have reviewed the proposed Flood Emergency Response CEMP Subplan (FERS) and the flood risk information (e.g. Local Flood Plan, Flood Studies etc.) available to the NSW SES, and provide the following advice based on the principles outlined in the Manual:

- **Development should not result in an increase in risk to life, health or property of people living on the floodplain.**

  It is noted that the sections of the proposed work sites are prone to flooding in a 20% AEP event, with depths of up to 2m in a Probable Maximum Flood (PMF)[1][2]. The flood maps provided as part of the FERS only show the 1% AEP, and only for the proposed Advanced Water Recycling Centre.

- **Risk assessment should consider the full range of flooding, including events up to the Probable Maximum Flood (PMF) and not focus only on the 1% AEP flood.**

  We would like to seek a copy of the Flood Impact Assessment referred to within the CEMP.

  The proposed Advanced Water Recycling Centre also relies on a route which crosses over Kemps Creek. The FERS should be updated to include the height of the bridge and the depth at which this route becomes flooded, and therefore when evacuation is required to be complete by.

  The flood information provided also appears to focus only on riverine flooding. It is recommended that overland flooding is considered with respect to local roads.

  Parts of the proposed Advanced Water Recycling Centre would have a hazard classification of H6 during a 1% AEP event, which is the highest hazard classification and is not safe for people, vehicles, or buildings. It is also noted that the adjacent roads to the sites may be cut by floodwaters with the sites becoming isolated well before the 1% AEP flood event.

  The local and regional road network is also prone to local and riverine flooding and would require persons onsite to have adequate time to self-evacuate prior to the roads becoming flooded. **Evacuation must not require people to drive or walk through flood water**. Therefore ideally the sites would be closed prior to the impact of flooding.

[1] Advisian. 2020. South Creek Floodplain Risk Management Study and Plan.
[2] John Holland. 2023. Flood Emergency Response CEMP Sub-Plan

- **Risk assessment should have regard to flood warning and evacuation demand on existing and future access/egress routes**.

  Consideration should also be given to the impacts of localised flooding on evacuation routes. There are no formal warning systems for South Creek or Kemps Creek, therefore there will be little to no warning time and no formal warnings. The Bureau of Meteorology do provide Severe Weather Warnings and Detailed Severe Thunderstorm Warnings which can provide an indication of heavy rainfall that may lead to flash flooding.

- **Development strategies relying on deliberate isolation or sheltering in buildings surrounded by flood water are not equivalent, in risk management terms, to evacuation**.

  Although evacuation is the primary strategy as mentioned in section 8 of the FERP, we recommend this should be reworded to clarify that the primary strategy is ensuring early closure of the sites, for instance based on a severe weather warning for flash flooding or as there is no flood warning system and there is likely to be rapid rises, on the first sign of flooding. More information on local overland flooding and flash flood hotspots may be required to adequately assess risk for the sites.

- **Development strategies relying on an assumption that mass rescue may be possible where evacuation either fails or is not implemented are not acceptable to the NSW SES**.

In summary, the preferred emergency strategy for the sites is early closure prior to the commencement of flooding and before the start of the working day.

Please feel free to contact me via email at rra@ses.nsw.gov.au should you wish to discuss any of the matters raised in this correspondence. The NSW SES would also be interested in receiving future correspondence regarding the outcome of this referral via this email address.

Yours Sincerely

Elspeth O'Shannessy
Planning Coordinator, Emergency Risk Management
NSW State Emergency Service

From:	Alyce Harrington-JHG
To:	NSW SES Risk Reduction
Cc:	CHERYL.CAHILL@sydneywater.com.au; Cameron Varricchio; Michael Robertson-JHG; Shelly Stingmore; Peter Cinque; Joanne Humphries; Mira Segaran-JHG
Subject:	RE: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)
Date:	Thursday, 11 May 2023 8:53:18 PM
Attachments:	USCP-JHG-MPL-ENV-0004 - Flood Emergency Response CEMP Sub-plan (Rev 04)_Track Change (1).docx USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 04)_clean and consolidated.pdf image007.png image008.png image009.png image010.png image011.png image012.png image016.png USC FERCSP_Response to SES comments.pdf

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Good evening Sharon,

Please see attached updated Flood Emergency Response CEMP Sub-plan for the Upper South Creek AWRC project and corresponding comment register for your information.

Note that the document has been provided in a clean and consolidate PDF with all relevant appendices included, and also a Word version with tracked changes enabled to assist with identifying where amendments have been made in accordance with comments / feedback provided by the NSW SES in earlier correspondence.

If you have any questions regarding this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Cc: CHERYL.CAHILL@sydneywater.com.au; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; NSW SES Risk Reduction <rra@ses.nsw.gov.au>; Shelly Stingmore

<shelly.stingmore@one.ses.nsw.gov.au>
Subject: RE: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good afternoon Alyce

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Kind regards

Sharon Ladeira
Program Support Officer | Metro Operations
NSW State Emergency Service – Emergency Risk Management
E rra@ses.nsw.gov.au

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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, March 2, 2023 5:10 PM
To: Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG

<Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

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Good afternoon Peter and Joanne,

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As such, John Holland on behalf of Sydney Water, is please to present to the NSW SES, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for NSW SES reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Mira Segaran-JHG

From: Alyce Harrington-JHG
Sent: Thursday, 13 July 2023 11:24 AM
To: Mira Segaran-JHG
Subject: FW: ID 1893 - - FW: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

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From: Elspeth O'Shannessy <elspeth.oshannessy@ses.nsw.gov.au>
Sent: Thursday, July 13, 2023 11:23 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Subject: RE: ID 1893 - - FW: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good morning Alyce,

Thank you for addressing our concerns raised in our previous correspondence.

I would like to reiterate that NSW SES does not endorse or approve Private Evacuation Plans. However, we do recommend that the plan developed is exercised, evaluated and revised regularly to ensure that the plan is up to date, achievable and consistent with broader emergency management arrangements.

All the best,
Elle

Working part-time Monday to Thursday

SES

Elspeth O'Shannessy (she, her)
A/ Manager Risk Assessment | Emergency Risk Management

NSW State Emergency Service
E elspeth.oshannessy@ses.nsw.gov.au

Burrelli Street, Tharawal (Dharawal), Wollongong NSW 2500
www.ses.nsw.gov.au

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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Wednesday, 12 July 2023 4:43 PM
To: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Cc: Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
Subject: ID 1893 - - FW: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

EXTERNAL EMAIL: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good evening,

Regarding ID 1893, John Holland is seeking to confirm that the revised Flood Emergency Response CEMP Sub-plan for the Upper South Creek Project issued Thursday 11 May 2023, has satisfactorily address comments raised by NSW SES.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Sent: Thursday, June 29, 2023 3:19 PM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Subject: RE: Response ID1893 Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

Good afternoon Alyce

Thank you for your email. It is registered as ID 1893. Please quote this ID on any related future correspondence.

The referral will be assessed and a response will be forthcoming in due course, aiming for 13 July.

Please note that staff may be involved in NSW SES Operations which could result in a delay in response times. Apologies for any inconvenience.

Thank you.

Kind regards.
Daniela

Daniela Mitreski
Program Support Officer | Emergency Risk Management Branch
NSW State Emergency Service – State Headquarters
E: rra@ses.nsw.gov.au

93-99 Burelli Street Wollongong, NSW 2500
PO Box 6126 Wollongong, NSW 2500
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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Wednesday, 28 June 2023 5:03 PM
To: NSW SES Risk Reduction <rra@ses.nsw.gov.au>
Cc: Shelly Stingmore <shelly.stingmore@one.ses.nsw.gov.au>; Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
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Good evening,

John Holland has recently received comments from the Department of Planning & Environment (DPE) Post Approvals Team regarding the USC Flood Emergency Response CEMP sub-plan (FERCSP).

As we work towards responding to and closing out these comments, John Holland would like to confirm that the revised FERCSP and accompanying comments register (issued Thursday 11 May 2023) satisfactorily address comments raised by NSW SES.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
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Cc: CHERYL.CAHILL@sydneywater.com.au; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Shelly Stingmore <shelly.stingmore@one.ses.nsw.gov.au>; Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
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Kind regards

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Program Support Officer | Metro Operations
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Sent: Thursday, March 2, 2023 5:10 PM
To: Peter Cinque <peter.cinque@ses.nsw.gov.au>; Joanne Humphries <joanne.humphries@one.ses.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (SES)

EXTERNAL EMAIL: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good afternoon Peter and Joanne,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the

Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 requires a number of CEMP Sub-plans to support the CEMP and they must be developed in consultation with relevant government agencies, including the NSW State Emergency Services (SES). Of the CEMP Sub-plans listed in CoA C4, the project approval requires consultation with the NSW SES for the Flood Emergency Response CEMP Sub-plan.

As such, John Holland on behalf of Sydney Water, is please to present to the NSW SES, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for NSW SES reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Appendix 3 - Wollondilly City Council – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (WSC)
Date:	Wednesday, 8 March 2023 2:14:24 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 4:44 PM
To: bianca.klein@wollondilly.nsw.gov.au
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (WSC)

Good afternoon Bianca,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Wollondilly Shire Council (WSC). A list of the plans and

programs relevant to WSC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to WSC, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for WSC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Kind Regards,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From:	Darragh O"Brien-JHG
To:	Mira Segaran-JHG
Cc:	Alyce Harrington-JHG
Subject:	FW: Wollondilly Council meeting minutes 08.03.2023
Date:	Friday, 28 April 2023 8:04:14 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png Wollondilly Shire Council Early Coordination Meeting (1).pdf 20230308_Wollondilly Council meeting minutes_FINAL (3).pdf image007.png image008.png image009.png image010.png image011.png image012.png

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Hi Mira,

See below as discussed.

Regards,

Darragh O'Brien
Environment Lead
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 408927726
E. Darragh.O'Brien@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>
Sent: Monday, 27 March 2023 1:27 PM
To: Mathew Harland <mathew.harland@wollondilly.nsw.gov.au>; ibrahim.muharrem@wollondilly.nsw.gov.au; Nafizul Akash <nafizul.akash@wollondilly.nsw.gov.au>
Cc: Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Mark Trethewy-JHG <Mark.Trethewy@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Rex Taka-JHG <Rex.Taka@jhg.com.au>
Subject: Wollondilly Council meeting minutes 08.03.2023

Hi All,

Please see attached meeting minutes from 08.03.2023.

The 50% design drawings are within the attached slide pack.

Thank you,

Rama Sapkota
Senior Community Engagement Advisor - Upper South Creek project

JOHN HOLLAND
M: 0447 633 275
W. johnholland.com.au

Meeting Minutes

Title	Stakeholder meeting with Wollondilly Shire Council on 50% design completion
Date	8/03/2023
Time	2:30pm
Held at	Teams Meeting

Chaired by	Michael Robertson
Minuted by	Rama Sapkota
Distribution Date	

Attendees List

Aidan O'Driscoll (AO), Construction Manager, JHG
Rex Taka (RT), Project Development Manager, JHG
Michael Robertson (MR), Community Manager, JHG
Mark Trethewey (MT), Sustainability Manager, JHG
Darragh O'Brien (DO), Environment Lead, JHG
Rama Sapkota (RS), Senior Community Advisor, JHG
Ibrahim Muharrem (IM), Acting environment assessment planner, Wollondilly Shire Council
Trent Davies (TD), Maintenance Engineer, Wollondilly Shire Council
Matthew Hardland (MH), Council Technical officer, Wollondilly Shire Council
Nafizul Akash (NA), Acting team leader Assets and Transport, Wollondilly Shire Council

Apologies List

Alyce Harrington (AH), Environment & Approvals Manager, JHG

IDescription / Action	By Whom	By When
Acknowledgement of Country	MR	
An introduction of the project and introduced the meeting attendees.	MR	
AO ran through the treated pipeline water overview, overview of the project in the area and gave overview of timing of design process. Some points discussed below: • Horizontal directional drill (HDD) under Nepean River • HDD under Silverdale Road		

IM mentioned that Wollondilly Council has a farm in Wallacia and would like the opportunity to reuse the treated water.

IM mentioned that they want zero impact to waterways and enquired about the methodology of work under the river. He also mentioned that farmers are keen for water and would like to use treated water.

ACTION: MR mentioned the project will provide treated water for non-drinking purposes in the Aerotropolis and treated water for environmental flows in the Nepean River system but he will put Sydney Water in touch with Council about water reuse opportunities.

AO advised that work will be underneath the creek and go across to other side of the bridge. AO mentioned that he would like to work within rock, silty soil is not ideal. The team will start HDD on the rock level, explained outlined micro-tunnel and HDD construction methods.

IM enquired what will be used to stabilise? Will it be Bentonite? If it is, then he raised concern that it might be harmful to the river.

AO confirmed that bentonite will be used to stabilise however the HDD will be quite deep in the rock. There will be an HDD rig on rock in Fowler Reserve which will calculate the pump pressure. Confident that work is going to be very deep in rock and there shouldn't be any impact to the waterways.

IM asked if there is any risk to the bed rock.

AO mentioned not at the depth we are going and the rocks have also been assessed for consistency and strength.

IM and AO spoke about trenching methodology.

AO shared project milestone, start dates, drill set up location and work location.

IM enquired if vegetation clearing required during these works?

AO mentioned that vegetation will be cleared during valve construction. AO confirmed there is no open trench on the riverbanks for the pipeline (but there is the outlet structure to be built on the riverbank on private property to the north).

IM asked about the trenching methodology and if the trench will be secured properly to minimise animals getting trapped.

AO mentioned that the trench will be fenced off and backfilling as the work progresses (with people observing the whole process).

Traffic

AO advised site set up will be at Silverdale Road and entry to site will be from there. There will be trucks and dog, semi trailers and light vehicles accessing the site.

The Nepean River will be the water release point.

AO mentioned they will monitor the traffic and won't be stopping traffic. There shouldn't be any impact to traffic as the work will be underneath the road.

MH enquired if traffic entering and existing Silverdale road will be managed by traffic control – will there be traffic control?

AO mentioned they are currently working on Traffic Management Plan and would like to work with Wollondilly Council and requested for a contact person. **ACTION: Council to nominate best contact person.**
Traffic Contact for John Holland, Upper South Creek AWRC: Balendra Kunaratnam kunaratnam.balendra@jhg.com.au; 0418 979 198

NA enquired if there is anything in the road reserve as most of the work is going through private property.
AO mentioned the access to Silverdale Rd will be through road reserve.

NA requested for better drawings.

ACTION: JHG to share 50% drawings by sharing this slide pack with Council. Complete

IM enquired if there will be trenching around significant trees which may result in damaging their roots. Is there any offset for tree removal? Previously, Sydney Water have offset tree removal. Wollondilly Council is open to planting additional trees, replanting/reinstate the disturbed areas and mitigate the biodiversity impacts.

ACTION: MT said his team would be interested to catch up about the replanting conversation/offset.

DO went through the environment slides and advised that CEMP and subplans have been sent to Council for consultation.

IM enquired if Controlled Activity Approval come through?

DO mentioned that management plan issued and should have been circulated.

ACTION: MR has since confirmed the plans were issued to Bianca Klein but will re-send to this group. RS sent the plans to the group on 10/03/2023. Complete

MT went through the sustainability slides.

MT – Requests if Wollondilly Council could please identify the best environment or sustainability contact to address further council and USC collaboration opportunities proposed on Sustainability slides (e.g. asset resilience in response to climate change, material/water/waste reuse/recycling opportunities)

IM asked what level the water is being treated at? They currently have good quality water and doesn't want it to be impacted. IM keen for alternate solution and link in any offset.

ACTION: MR provided a link to the EIS in the Teams chat during the meeting. Repeated here Upper South Creek Advanced Water Recycling Centre | Planning Portal - Department of Planning and Environment (nsw.gov.au)
For Council review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders
https://www.sydneywatertalk.com.au/53513/widgets/322594/documents/251449
Link to the project website: www.sydneywatertalk.com.au/uppersouthcreek

IM had questions around environment control, fracking and how Riparian Zone will be protected? Requested for a Controlled Activity Approval.

ACTION: JHG to set up a meeting to discuss methodology about how we are getting across the Nepean River and more detailed conversation as the design is getting finalised.

NA shared concerns about pipeline going underneath the bridge. During flooding, panels go missing. Upgrade to GFR system to make it easily accessible or for water to run

through would be ideal. He shared concerns around flood, pedestrian access on footpath and impacts to residents.

ACTION: Further meeting about traffic, pedestrian management and the drilling fluid return pipe.

ACTION: Make sure the people present from Wollondilly Council get copies of CEMP sub-plans previously sent by Alyce Harrington to Bianca Klein. Complete

ISSUES SUMMARY

- Interest in receiving treated water
- No impact to waterways
- Drilling fluid – fracking risk – CEMP contingencies
- Separation of topsoil and subsoil for reinstatement when trenching
- Vegetation removal in riparian zone - offset approach
- Fauna getting trapped in trenches during construction
- Traffic management on to Silverdale Road
- Drawings – Nafizul Akash
- Want to know to what classification the water is treated to?
- Primary concern is the discharge to the river. Prefer water gets reused by farms etc in the area than go to rivers. Important to reuse water than discharge it.
- Allow them time to review documents as they are under-resourced
- Question about damage to bridge during floods – install a GRF system?
- Pedestrian access across the bridge, particularly if there's a flood.

Could council please confirm the above list to allow the Project to be aware that council's key concerns are understood?

From:	Alyce Harrington-JHG
Bcc:	CAHILL, CHERYL; Cameron Varricchio; Michael Robertson-JHG; Rob Cranston-JHG; Jason Julius-JHG; Darragh O"Brien-JHG; Simone Kenyon-JHG; bianca.klein@wollondilly.nsw.gov.au; ari.fernando@penrith.city; tungcabj@liverpool.nsw.gov.au; Alison Mortimer; Daniel Begnell; mail@fairfieldcity.nsw.gov.au; Mathew Harland; Nafizul Akash; Ibrahim Muharrem; Zahid Hassan
Subject:	Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period
Date:	Wednesday, 26 April 2023 4:44:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

Good afternoon,

Over recent weeks, John Holland on behalf of Sydney Water has been issuing documents to relevant government agencies and local councils in relation to the Upper South Creek Advanced Water Recycling Centre project.

These documents include the project's Construction Environmental Management Plan (CEMP) and associated sub-plans as summarised below:

- USC Construction Environmental Management Plan (CEMP)
- USC Air Quality CEMP Sub-plan
- USC Flood Emergency Response CEMP Sub-plan
- USC Heritage CEMP Sub-plan
- USC Biodiversity CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan
- USC Soils & Contamination CEMP Sub-plan

Please note that whilst the formal consultation period for the above documents has now ended, John Holland would welcome any future opportunity to engage with you on matters related to the project.

If you have any further questions related to this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Appendix 4 – Penrith City Council – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (PCC)
Date:	Wednesday, 8 March 2023 2:14:34 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

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Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
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E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 4:47 PM
To: ari.fernando@penrith.city
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (PCC)

Good afternoon Ari,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Penrith City Council (PCC). A list of the plans and

programs relevant to PCC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to PCC, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for PCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Penrith Council meeting minutes 3.03.2023
Date:	Friday, 28 April 2023 7:44:04 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png Penrith City Council Early Coordination Meeting1.pdf 20230303_Penrith Council meeting minutes_FINAL.pdf image007.png image008.png image009.png image010.png image011.png image012.png

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Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

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From: Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>
Sent: Friday, 17 March 2023 3:20 PM
To: ari.fernando@penrith.city; Murray.halls@penrith.city; adam.lowe@penrith.city; Michael.Middleton@penrith.city; Justine.Vella@penrith.city
Cc: Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>; Mark Trethewy-JHG <Mark.Trethewy@jhg.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; NORTH, GEMMA <GEMMA.NORTH@sydneywater.com.au>
Subject: Penrith Council meeting minutes 3.03.2023

Hi all,

Please see attached meeting minutes from 03.03.2023.

Thank you,

Rama Sapkota
Senior Community Engagement Advisor - Upper South Creek project

JOHN HOLLAND

Meeting Minutes

Title	Stakeholder meeting with Penrith City Council (PCC) on 50% design completion
Date	3/03/2023
Time	2:00pm
Held at	Teams Meeting

Chaired by	Michael Robertson
Minuted by	Rama Sapkota
Distribution Date	

Attendees List

Aidan O'Driscoll (AO), Construction Manager, JHG
Alyce Harrington (AH), Environment & Approvals Manager, JHG
Michael Robertson (MR), Community Manager, JHG
Mark Trethewey (MT), Sustainability Manager, JHG
Rama Sapkota (RS), Senior Community Advisor, JHG
Gemma North (GN), Community Advisor, SW
Scott Jones (SJ), Utilities Coordination Manager, PCC
Michael Middleton (MM), Environmental Health Coordinator, PCC
Adam Lowe (AL), Asset Coordinator: Parks and Open Space, PCC
Brad James (BJ), Asset Officer, PCC
Justine Vella (JV), Bushland Management Coordinator, PCC
Ari Fernando (AF), PCC
Payton Bradcock (PB), Asset Officer, PCC
Murray Halls (MH), PCC

Apologies List

Oliver De Paz, Asset Coordinator - Permits and Inspections, PCC

Anne Richardson, Strategic Asset Management Coordinator, PCC

Lynden Tandy, Business Administration Support Officer – Road Assets, PCC

ID	Description / Action	By Whom	By When
	Acknowledgement of Country	MR	

An introduction of the project and introduced the meeting attendees. MR

AO ran through the treated pipeline water overview, overview of the project in the area and gave overview of timing of design process. Some points discussed below:

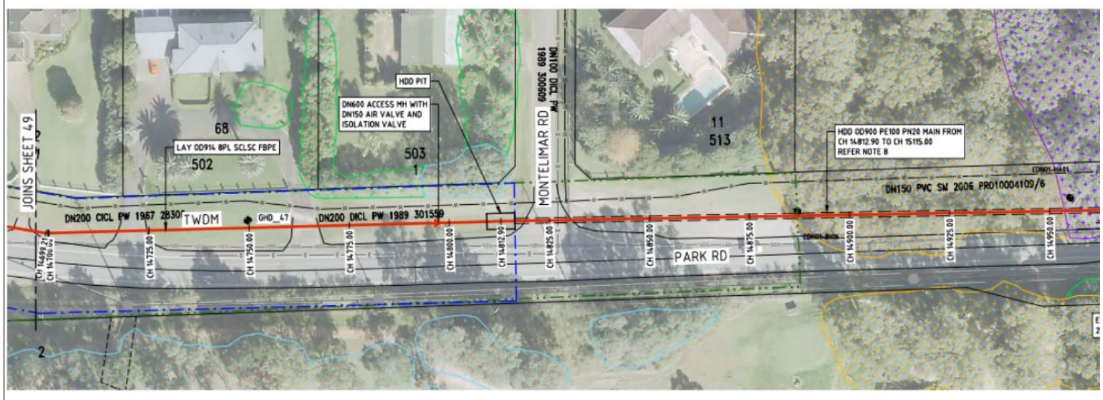
- Open trench to Luddenham Road
- The Northern Road HDD or boring
- Park Road, south side on the verge and working on a design to reduce impact on local traffic [threatened orchids are northern side]
- Jerry's creek crossing
- Nepean River – HDD under the river

MM enquired about the methodology of going under the river.

AO mentioned that he would like to work with rock, silty soil is not ideal. The team will start HDD on the rock level, explained outlined micro-tunnel and HDD construction methods. He mentioned there will be two pits either side of the Northern Road.

SJ enquired about Park Road and resident access and impacts. He enquired if it will be open excavation or boring.

AO advised there are impacts to couple of driveways and went through the design drawing below.



AO advised there are impacts to some driveways on Park Road.

Some driveway access will be temporarily blocked for short periods during open excavation. He went through how the team on the ground will facilitate access during construction, temporary access lanes could be created as fences are set back from road. He further mentioned there will a rig set up at Jerrys' Creek. There will be trenching work on Driver Avenue.

MM enquired if they will be trenching on nature strip or the road. He enquired if the excavation will be close to the trees and if an arborist report was done. He enquired about the hours of operation and if the work will be day or night work.

Any requirement to undertake work outside of standard daytime construction hours will be in accordance with relevant conditions of the Environmental Protection License to be obtained by John Holland in consultation with the NSW EPA.

MM enquired of there will be consultation with residents before the works begin and if there will be door knocking.

MR advised that there will be face to face consultation with residents around the pipeline, especially the residents that are closer to the pipeline. There will be notifications and online communication with the wider community.

ACTION: PCC to review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders
https://www.sydneywatertalk.com.au/53513/widgets/322594/documents/251449
Link to the project website: www.sydneywatertalk.com.au/uppersouthcreek

MM enquired about the roadside vegetation with JV and had an internal discussion around disturbance to the reserve. JV is aware of the environment assessment carried out by JH and SW and was satisfied with the outcome.

MM raised concern around vegetation on PCC land.
MH enquired about Riverbank and fish habitat and asked if it is in danger?

AO and MR advised the work will be well below the fish habitat.

SJ and JV spoke about machinery access around or near Fowler reserve. JV advised that she has gone through all the impacts with the site team previously and understands that impact to the embankment won't be fully eliminated. SJ mentioned that it is a steep embankment and wanted to know where the machinery will be stored. SJ flagged that environment assessment and bio-diversity should be looked into.

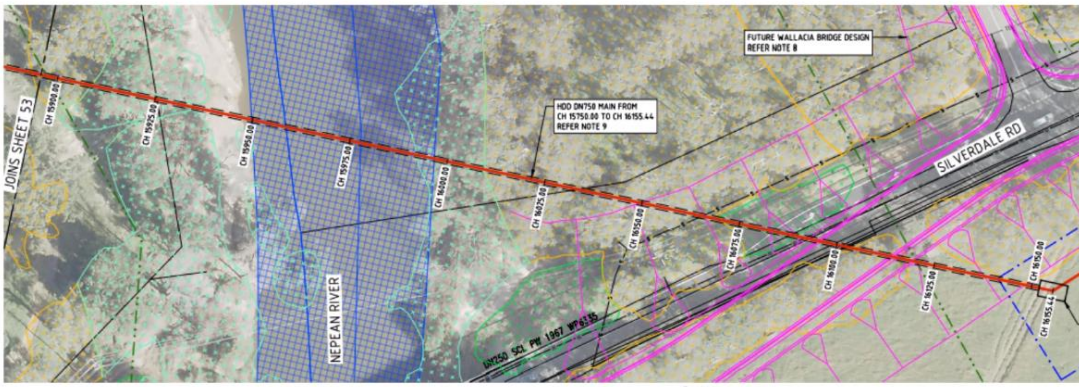
ACTION: AH and MR to speak with JV further about construction approach and vegetation removal near Shelley Road and Fowler Reserve.

AO advised them of the machinery storage location.

ACTION: MR and AO advised we can facilitate an on site meeting to go through construction methodology on site regarding the drilling fluid return pipe.

AO went through the construction methodology around HDD.

SJ shared concerns around pedestrian access on the bridge.



AO advised there may be a possibility of traffic control to help with pedestrian access on site however the drill will be there 24/7.

AF spoke to the above drawing and advised to speak to Wollondilly Council about the pier.

SJ advised that he would like more information on impacts to private properties and restoration piece on Park Road.

ACTION: AO to provide more information about the design along Park Road including any tree removal.

AF requested plans of the old Northern Road and AO went through the drawing with him. AF advised that the Old Northern Road is/will be Council Road, it will no longer state road.

AF enquired about what will happen at Park Road and Northern Road intersection.

AH and MT went through the environmental and sustainability items and encouraged to provide feedback as the sub-plans are being finalised and encouraged open engagement between Council and the USC project.

MT – Requests if Council could please identify the best environment or sustainability contact to address further council and USC collaboration opportunities proposed on Sustainability slides (e.g. asset resilience in response to climate change, material/water/waste reuse/recycling opportunities).

BJ requested a dedicated contact for permits.

ACTION: AO to respond to BJ about permits.

AL enquired about Fowler Reserve, is there is potential for something to sink? AL advised to make safe or make good Fowler Reserve when the work is completed. He had concerns around restoration as other contractors/projects have caused damage previously and unable to get an outcome once they leave the area. He doesn't want any damage to any Council assets.

AO advised that USC project team will be there even after the completion of the project and will restore it properly.

AF enquired about access road on Clifton Avenue or future road for the treatment plant and who does the ownership of that road sit with. Will it be SW private road? Who will be maintaining the access road?

ACTION: MR to ask Sydney Water's WRDT project team to provide information about access road to AF.

AF advised that Traffic Management and impact on local residents is a concern.

MR summarised the issues and asked if there were more questions.

JV enquired are you holding a stall at the Wallacia Community Festival in April?

MR advised that he has been invited and would like to discuss this with JV next week.

MM requested for a clear contact should Council receive resident concerns for noise, dust or other environmental health impacts.

MR provided the project 1800 064 127 number for future contact.

AO advised about site specific Traffic Management Plan and would like to workshop with PCC.

ACTION: JH and PCC agreed that there will be specific targeted meetings on an as-needs basis going forward rather than regular coordination meetings. AF will be the main point of contact and will arrange specific teams to attend the meeting.

Summary of key issues or interests raised by Council

- Impacts of pipeline under waterways
- Parking and traffic impacts on Park Road and Driver Avenue
- Blocking driveways and trenching through driveways during construction
- Vegetation removal including on Park Road and near Shelley Road / Fowler Reserve
- Working hours in residential areas
- Protecting fish habitat structure on Nepean River near Fowler Reserve

- Construction works on or near Silverdale Road bridge including pedestrian management
- Requests for work permits including within Council's road reserves
- Traffic management
- Restoration of Fowler Reserve

Could council please confirm the above list to allow the Project to be aware that council's key concerns are understood?

From:	Alyce Harrington-JHG
To:	ari.fernando@penrith.city
Cc:	Darragh O"Brien-JHG; Mira Segaran-JHG; Michael Robertson-JHG
Subject:	Upper South Creek AWRC Project - CEMP & Sub-plans
Date:	Monday, 3 April 2023 5:40:28 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

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Hello Ari,

Hope you are well.

I'm reaching out to follow up on the USC AWRC Project CEMP and sub-plans issued to Penrith City Council (PCC) over the last few weeks. As a summary of the documents issued, please see below a list of plans and programs that have been issued by John Holland to PCC:

- Air Quality CEMP Sub-plan (issued 01 March 2023)
- Flood Emergency Response CEMP Sub-plan (issued 02 March 2023)
- Heritage CEMP Sub-plan (issued 03 March 2023)
- Biodiversity CEMP Sub-plan (issued 03 March 2023)
- Soils & Contamination CEMP Sub-plan (issued 11 March 2023)
- Noise & Vibration CEMP Sub-plan (including the noise & vibration construction monitoring program) (issued 07 March 2023)
- Traffic & Transport CEMP Sub-plan (issued 28 March 2023)
- Surface Water & Groundwater CEMP Sub-plan (including the surface water quality and groundwater construction monitoring programs) (issued 31 March 2023)

At Sydney Water's request, the plans have been progressively submitted to PCC from Wednesday 01 March 2023. It would be greatly appreciated if you could submit any comments available for any of the plans submitted from early March, as soon as possible so we can review and make the appropriate amendments.

If you have any questions, please do not hesitate to contact me.

Thank you,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

From:	Alyce Harrington-JHG
Bcc:	CAHILL, CHERYL; Cameron Varricchio; Michael Robertson-JHG; Rob Cranston-JHG; Jason Julius-JHG; Darragh O"Brien-JHG; Simone Kenyon-JHG; bianca.klein@wollondilly.nsw.gov.au; ari.fernando@penrith.city; tungcabj@liverpool.nsw.gov.au; Alison Mortimer; Daniel Begnell; mail@fairfieldcity.nsw.gov.au; Mathew Harland; Nafizul Akash; Ibrahim Muharrem; Zahid Hassan
Subject:	Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period
Date:	Wednesday, 26 April 2023 4:44:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

Good afternoon,

Over recent weeks, John Holland on behalf of Sydney Water has been issuing documents to relevant government agencies and local councils in relation to the Upper South Creek Advanced Water Recycling Centre project.

These documents include the project's Construction Environmental Management Plan (CEMP) and associated sub-plans as summarised below:

- USC Construction Environmental Management Plan (CEMP)
- USC Air Quality CEMP Sub-plan
- USC Flood Emergency Response CEMP Sub-plan
- USC Heritage CEMP Sub-plan
- USC Biodiversity CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan
- USC Soils & Contamination CEMP Sub-plan

Please note that whilst the formal consultation period for the above documents has now ended, John Holland would welcome any future opportunity to engage with you on matters related to the project.

If you have any further questions related to this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

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Appendix 5 – Liverpool City Council – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (LCC)
Date:	Wednesday, 8 March 2023 2:14:30 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

---

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

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From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 4:50 PM
To: tungcabj@liverpool.nsw.gov.au
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (LCC)

Good afternoon Jerard,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Liverpool City Council (LCC). A list of the plans and

programs relevant to LCC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to LCC, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for LCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Liverpool Council meeting minutes 09.03.2023
Date:	Friday, 28 April 2023 7:44:04 AM
Attachments:	Liverpool City Council Early Coordination Meeting (1).pdf 20230309_Liverpool Council meeting minutes_FINAL (1).pdf image001.png image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png image011.png image012.png

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Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

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From: Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>
Sent: Monday, 27 March 2023 1:33 PM
To: GergisR@liverpool.nsw.gov.au; SuryaprakashA@liverpool.nsw.gov.au; WiafeC@liverpool.nsw.gov.au; qus@liverpool.nsw.gov.au; aikinsk@liverpool.nsw.gov.au
Cc: Belinda Dechnik-JHG <Belinda.Dechnik@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>; Mark Trethewy-JHG <Mark.Trethewy@jhg.com.au>
Subject: Liverpool Council meeting minutes 09.03.2023

Hi All,

Please see attached meeting minutes from 09.03.2023.

The 50% design drawings are within the attached slide pack.

Thank you,

Rama Sapkota
Senior Community Engagement Advisor - Upper South Creek project

Meeting Minutes

Title	Stakeholder meeting with Liverpool City Council on 50% design completion
Date	9/03/2023
Time	2:00pm
Held at	Teams Meeting

Chaired by	Michael Robertson
Minuted by	Rama Sapkota
Distribution Date	

Attendees List

Aidan O'Driscoll (AO), Construction Manager, JHG
Michael Robertson (MR), Community Manager, JHG
Belinda Dechnik (BD) Environment and Sustainability Advisor, JHG
Darragh O'Brien (DO), Environment Lead, JHG
Rama Sapkota (RS), Senior Community Advisor, JHG
Jerard Tungcab (JT), Strategic Planner, Liverpool City Council
Kweku Aikins (KA), Acting Executive Planner, Liverpool City Council
Riham Gergis (RG), Approval Officer, Liverpool City Council
Stella Qu (SQ), Council Planner, Liverpool City Council
Mahavir Arya (MA), Liverpool City Council

Apologies List

Alyce Harrington (AH), Environment & Approvals Manager, JHG
Mark Trethewey (MT), Sustainability Manager, JHG

IDescription / Action	By Whom	By When
Acknowledgement of Country	MR	
An introduction of the project and introduced the meeting attendees.	MR	
Will have more focused meeting with Traffic team and Council in future	MR	
AO went through the treated pipeline water overview, overview of the project in the area and gave overview of timing of design process.		

MR mentioned the treated pipeline is outside of Liverpool LGA but happy to share details if requested.

RG enquired about the Construction Traffic Management Plan (CTMP) and would like to get the contact in JHG to liaise with directly. **ACTION: AO to follow up with RG about traffic management and permit applications.**

Traffic Contact for John Holland, Upper South Creek AWRC: Balendra Kunaratnam
kunaratnam.balendra@jhg.com.au; 0418 979 198

RG is responsible for ROL. Some points she flagged:

- Location near the school will require consultation with the schools so there are no conflicting issues with them. HSC period should be considered if work is located near a high school
- Dilapidation report to be prepared before starting work, restoration works
- Road opening permit can be applied online
- Things to consider are CTMP, road occupancy, road opening and dilapidation reports

ACTION for Council: Send details for road opening representative.

SQ advised to consult with the school and update the CTMP accordingly to minimise impacts. She also advised that Sydney Metro placed electrical powerline underneath the road last year, but she is not sure if electrical lines are within the verge or middle of the road.

ACTION: JHG currently developing a CTMP and will consult with Council. JHG to consult with School. JHG have addressed the consultation approach in the Community & Stakeholder Engagement Plan.

AO went through the locations of works and advised the work will be going through residential streets at Cecil Park. The construction team will aim to keep the impacts to a minimum but there will be traffic changes and some noise and dust.

RG enquired about the work hours and noted that there will be restricted hours for road closures noting that there will be no closures during peak hours. Details to be confirmed by JHG in the CTMP.

MA enquired about the depth of the pipe. What is the length of pipe in one day?

AO explained the methodology of pipe placement and advised that there will be multiple crews working along the project alignment.

MA enquired about parking plant on the road, how it will be protected, safety of the plant and enquired if 2-way movement will be allowed? How long will the work take?

AO advised that works will be 6 months plus.

MA flagged that Kennards have carried out work at Cross Street. Electrical work for the airport has also been carried out at this location. He noted that 750mm pipe depth is not sufficient. There is a risk associated with that and advised it is better to have the pipe deeper so it doesn't impact the future development of the road. MA advised he is not aware of any development plans currently. He flagged that Council don't want to relocate the pipeline when there is road construction in future. He is unable to comment on what depth is recommended.

AO advised he will take MA's feedback to the designers.

ACTION: Longitudual/Vertical design to be passed on to the Council when ready. JHG will issue a 90% detailed design on late May 2023.

MA enquired about where the valve is placed?

AO spoke about the methodology around valve construction and placement.

ACTION: AO to check the road centre line and where the valve will be. JHG will issue a 90% detailed design on 15 May 2023.

MA enquired what kind of pipe is being used?

AO advised PVC pipeline.

MA raised concerns around this for future works in the area.

AO advised the detailed design is 4-6 weeks from 90% design.

Council asked if there was any impact to bus stops? If yes, consult with the bus companies if they need to be relocated.

Council's maintenance team should be involved in these meetings and discussions.

MA will review the design plan and will let the project team know if the pipeline needs to be deeper. MA also enquired if Cowpasture Road will be underbored or trenched?

AO advised the intersection at Cowapasture Road will be underbored. The pit will be located on the shoulder.

MA mentioned there is a lot of services at that location and the pit is in close proximity to the roundabout.

DO went through the environment slide.

JT advised that he has received some management plans which he has circulated internally but is missing Traffic, contamination and air quality plans.

ACTION: DO and JT to coordinate to see which management plans have been sent. Complete

MA will pass on the information to Council's environment team, requested for slides and management plans.

BD went through the sustainability slides.

BD – Requests if Liverpool Council could please identify the best environment or sustainability contact to address further council and USC collaboration opportunities proposed on Sustainability slides (e.g. asset resilience in response to climate change, material/water/waste reuse/recycling opportunities).

JT enquired if there have been any changes to sustainability since the planning phase, they didn't have any comments on that and if there are any significant changes.

BD advised there hasn't been any significant changes since the planning. The team is currently getting into more details of the sustainability requirements.

MR went through the community slides and enquired if there are community festivals or events coming up that JHG could consider attending? If so please let him know. He also requested for feedback on the Community, Stakeholder and Engagement Plan (later sent the Plan to Jerard for distribution within Council).

ACTION: Liverpool Council to review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders https://www.sydneywatertalk.com.au/53513/widgets/322594/documents/251449

Link to the project website: www.sydneywatertalk.com.au/uppersouthcreek

MR summarised the meeting and gave an overview of the issues discussed.

Issues summary

- Consultation with residents and schools particularly around HSC times
- Road occupancy/opening permits and restoration approach (do dilap reports)
- Interest in Construction Traffic Management Plan
- Work hours – suggestion for night work (avoiding peak hours) on very busy roads
- Parking and safety of our machinery (and pedestrians) overnight
- Duration of work in this LGA
- Coordination with other project teams and understanding location of other underground assets

- Depth of pipe on Cross Street – deep enough to allow for potential future upgrade of Cross Street? Widening could be 8 metres road too
- Location of HDD pit near roundabout at corner of N Liverpool Road and Capricorn Boulevard
- Request for Shape files
- Site compound will be located where there are HDD.
- Site access arrangements.

Could council please confirm the above list to allow the Project to be aware that council's key concerns are understood?

From:	Alyce Harrington-JHG
To:	tungcabj@liverpool.nsw.gov.au
Cc:	CAHILL, CHERYL; Cameron Varricchio; Mira Segaran-JHG; Michael Robertson-JHG
Subject:	Upper South Creek (SSI-8609189) - LCC - CEMP Sub-plan consultation feedback
Date:	Friday, 24 March 2023 4:39:39 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

Hello Jerard,

It was good to chat with you earlier this afternoon, I really appreciate the call.

As discussed, John Holland on behalf of Sydney Water have issued the Upper South Creek CEMP and Sub-plans in a progressive fashion and would appreciate it if Council could issue back as soon as possible, any plans that have comments available.

You indicated that the Flood Emergency Response and Heritage CEMP Sub-plans have comments, so if you could please send those through now, we can get working on them straight away.

With regard to the remaining plans (including the Traffic & Transport and Surface Water & Groundwater CEMP Sub-plans to be issued imminently), could Council please provide any remaining comments by COB Monday 03 April 2023.

Thank you again and please reach out if you have any other questions.

Cheers,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
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E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
Bcc:	CAHILL, CHERYL; Cameron Varricchio; Michael Robertson-JHG; Rob Cranston-JHG; Jason Julius-JHG; Darragh O"Brien-JHG; Simone Kenyon-JHG; bianca.klein@wollondilly.nsw.gov.au; ari.fernando@penrith.city; tungcabj@liverpool.nsw.gov.au; Alison Mortimer; Daniel Begnell; mail@fairfieldcity.nsw.gov.au; Mathew Harland; Nafizul Akash; Ibrahim Muharrem; Zahid Hassan
Subject:	Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period
Date:	Wednesday, 26 April 2023 4:44:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

Good afternoon,

Over recent weeks, John Holland on behalf of Sydney Water has been issuing documents to relevant government agencies and local councils in relation to the Upper South Creek Advanced Water Recycling Centre project.

These documents include the project's Construction Environmental Management Plan (CEMP) and associated sub-plans as summarised below:

- USC Construction Environmental Management Plan (CEMP)
- USC Air Quality CEMP Sub-plan
- USC Flood Emergency Response CEMP Sub-plan
- USC Heritage CEMP Sub-plan
- USC Biodiversity CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan
- USC Soils & Contamination CEMP Sub-plan

Please note that whilst the formal consultation period for the above documents has now ended, John Holland would welcome any future opportunity to engage with you on matters related to the project.

If you have any further questions related to this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

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E. Alyce.Harrington@jhg.com.au

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From: Alyce Harrington-JHG
To: Mira Segaran-JHG
Subject: FW: Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period
Date: Monday, 8 May 2023 2:31:47 PM
Attachments: image012.png
image013.png
image014.png
image015.png
image016.png
image017.png
AWRC CEMP - Liverpool City Council - Response(2).pdf

FYI

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

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From: Jerard Tungcab <TungcabJ@liverpool.nsw.gov.au>
Sent: Monday, 8 May 2023 2:23 PM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Subject: RE: Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period

Good Afternoon Alyce,

See attached Liverpool City Council's additional response to the Upper South Creek Advanced Water Recycling Centre AWRC. We appreciate *John Holland's* in consultation and engagement with this project.
Should you have further question, please do not hesitate to contact me.

Sincerely,

Jerard Tungcab
Strategic Planner

LIVERPOOL CITY COUNCIL

02 8711 7860 | | TungcabJ@liverpool.nsw.gov.au
Customer Service: 1300 36 2170 |
www.liverpool.nsw.gov.au

We acknowledge the traditional custodians of the land that now resides within Liverpool City Council's boundaries, the Darug and Dharawal nations and pay our respects to their Elders past, present and emerging.

This email (including any attachments) may contain confidential and/or legally privileged information. If you are not the intended recipient please delete this email and notify us by telephone. Any privilege is not waived and the storage, use or reproduction is prohibited.

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Wednesday, April 26, 2023 4:45 PM
Subject: Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period

Good afternoon,

Over recent weeks, John Holland on behalf of Sydney Water has been issuing documents to relevant government agencies and local councils in relation to the Upper South Creek Advanced Water Recycling Centre project.

These documents include the project's Construction Environmental Management Plan (CEMP) and associated sub-plans as summarised below:

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- USC Flood Emergency Response CEMP Sub-plan
- USC Heritage CEMP Sub-plan
- USC Biodiversity CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan
- USC Soils & Contamination CEMP Sub-plan

Please note that whilst the formal consultation period for the above documents has now ended, John Holland would welcome any future opportunity to engage with you on matters related to the project.

If you have any further questions related to this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

LIVERPOOL CITY COUNCIL

Contact: Jerard Tungcab
Ph: 02 8711 7860
Date: 8 May 2023

Alyce Harrignton
Environment & Approvals Manager
Level 3, 65 Pirrama Road
Pyrmont, NSW, 2009

Dear Mrs Harrington

Re: Upper South Creek Advanced Water Recycling Centre CEMP Consultation – Liverpool City Council

I write in response to your email dated 26 April 2023 regarding consultation for the Upper South Creek Advanced Water Recycling Centre (AWRC) Construction Environmental Management Plan (CEMP). We appreciate the opportunity to provide comment and we welcome further engagement on the project.

Council has reviewed the plans and provides detailed comments at Appendix 1. Council staff have also provided a number of recommendations with regards to the carrying out of development at Appendix 1.

In future, Council staff would prefer that the full package of plans and documents are provided for comment at the same time. This allows Council technical officers to undertake a comprehensive review of all aspects of the development, including aspects where there may be inconsistencies between documentation.

Council has previously provided comments on the Heritage Sub-Plan, and Biodiversity Sub-Plan. This has been re-iterated as part of the attachment below along with further matters not previously communicated.

Should you require any further information on this matter, please do not hesitate to contact Jerard Tungcab, Strategic Planner, at tungcabj@liverpool.nsw.gov.au

Yours sincerely,

Ian Stendara

Ian Stendara
Executive Planner

Attachment 1

Environmental Health

Council's Environmental Health Team have reviewed the following documents:

- USC Construction Environmental Management Plan (CEMP)
- USC Soils & Contamination CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Air Quality CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan

Whilst no major objections have been raised, the following considerations are reiterated for specific matters.

Soils & Contamination

The document states that the Soils & Contamination CEMP Sub-plan (SCCSP) has been reviewed by Peter Lavelle of Environmental Resources Management (ERM). Peter is a Contaminated Land Consultant certified under the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP (SC)).

Additionally, an NSW Environment Protection Authority (EPA) accredited Site Auditor has been engaged by Sydney Water for the project. Following review of the SCCSP, the Site Auditor will issue an interim audit advice or a relevant site audit statement stating that the SCCSP is considered adequate for the construction of the project. Relevant outcomes or recommendations from the review process will be incorporated into the SCCSP.

Noise & Vibration

The report states that a suitably qualified and experienced acoustic advisor in noise and vibration management has been nominated by the project and approved by the "Planning Secretary". Additional independent acoustic advisors have also been selected to be utilised if needed.

The Out of Hours Works (OOHW) Protocol will be provided to the EPA, Environmental Representative (ER) and Acoustic Advisor (AA) in accordance with CoA E43. Further attention is required to references to various appendix listed in section 3.3 and table 3-2 of the report.

Air Quality

Proposed activities with potential to generate dust have been identified and plans to monitor dust generating activities, plant and vehicle emissions and meteorological conditions have been listed as well as mitigation techniques and protocols to deal with complaints.

Additionally, it is proposed that John Holland staff, Sydney Water Environmental Leads and the ER will undertake regular inspections of works sites, in particular critical activities, throughout construction of the project. These joint inspections would occur on a weekly or fortnightly basis depending on the complexity and anticipated risks associated with the stage of construction. Deficiencies and required actions will be analysed and prioritised at the completion of the inspection and timeframes for implementation of corrective actions agreed.

Traffic Management

Council's Traffic Management Team have reviewed the following documents:

- USC Construction Environmental Management Plan (CEMP)
- USC Flood Emergency Response CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan

Flood Emergency Response

It is noted that Elizabeth Drive is the only evacuation route to the subject site. As the section of Elizabeth Drive between Clifton Avenue and Mamre Road is located within high-risk flood zone. Early evacuation or warning should be provided prior to and during major flooding events. Consultation is required with TfNSW M12 Motorway project whether any new flood emergency route will be available via the M12 Motorway in future.

Traffic and Transport

The following recommendations must be considered and undertaken.

Action	
A	It is noted that construction traffic will result in an increase in traffic of greater than 5% on road links that are already over capacity including Elizabeth Drive and Cowpasture Road. As a result, Council is to be consulted by Sydney Water or the contractors for any works which may have noticeable impacts on these roads
B	A number of major transport and infrastructure projects are under construction within the close proximity to Elizabeth Drive. Transport for NSW (TfNSW), Councils, Sydney Metro are to be informed for any activity which will result in partial or full road closure along Elizabeth Drive. It is suggested that Sydney Water/contractors are to consult Sydney Metro for the proposed treated wastewater pipeline section underneath the Metro railway track at Elizabeth Drive.
C	A copy of detailed design plans for the proposed pipelines along roads within Liverpool Local Government Area should be submitted to Council's Transport Management team for comment prior to the commencement of the works.
D	A site-specific Construction Traffic Management Plan (SSCTMP) is to be prepared and submitted to Council for review prior to the commencement of any works. A SSCTMP is to include (but not being limited) to the following: • Number of daily and peak hour vehicle, pedestrian and cyclist movements, particularly heavy vehicle movements generated from the proposed works; • Heavy vehicle haulage routes as per the approved EIA report and/or Council's approved routes; • Access arrangements for each construction compound and zone; • On-site construction car parking arrangement and traffic circulation;

	• Vehicle Movement Plans (VMP), Pedestrian Movement Plan (PeMP), and Parking Management Plan (PaMP); • Outlining the needs for a Road Occupancy Permit issued by Council or Road Occupancy Permit issued by the Transport Management Centre. Works within the road reserve shall not commence until the relevant traffic management plans and associated TCPs and VMPs have been endorsed by the relevant road authority.
E	The Driver Code of Conduct is to be prepared and included in the relevant CTMP and SSCTMP. The drivers should use the approved haulage routes
F	Sydney Water/contractors shall seek road occupancy, road opening permits, and works zone approval from Council if required prior to undertaking any works within public road reserve. The application forms are available on Council's website or can requested from the Council's Customer Services. Prior to commencement of any works a Traffic Control Plan including details for pedestrian and cyclist access management, shall be prepared in accordance with AS1742.3 "Traffic Control Devices for Works on Roads" and the Roads and Maritime Services publication "Traffic Control at Worksites" and certified by an appropriately accredited Roads and Maritime Services Traffic Controller, and submitted to Council or the relevant road authority for approval. Traffic control measures shall be implemented during the construction phase of the development in accordance with the certified plan. A copy of the plan shall be available on site at all times. Note: A copy of the Traffic Control Plan shall accompany the Notice of Commencement to Liverpool City Council.
G	Any removals of on-street parking must be approved by Council prior to the implementation. Community consultation and notification are required for the on-street parking removals.
H	A project specific Communications Management Plan for staging construction activities is to be prepared and submitted to Council for approval. The plan is to outline community consultation methodologies, approaches and timeline of consultation process and complaint handling process. Consideration is to be given to include consultation measures such as letterbox drops for affected community, advertisement in local newspapers, VMS sign notification, local community and interest group consultation meetings, and consultation process(s) with key stakeholders such as Councils, TfNSW, Transport Management Centre, bus operators, school, police and emergency service. TfNSW and Sydney Metro host regular traffic control working groups. Council also has regular community forums. It is recommended that the project team can provide updates at the working groups and Council's community forums. A request can be sent to Council for attendance by email: districtforums@liverpool.nsw.gov.au. Full details can be found on the website: Liverpool District Forums | Liverpool Listens (nsw.gov.au).

I	The CTMP, SSCTMP and Communications Management Plan are to include key contact details of principal, contractors, and public agencies. The following Council contact details are to be included in Project Contacts: • Charles Wiafe – Manager Transport Management, wiafec@liverpool.nsw.gov.au, 02 8711 7452 • Jeya Shanmuganathan – Maintenance Planning and Reporting Coordinator, shanmuganathanj@liverpool.nsw.gov.au, 02 8711 7016
J	Council is to be informed for any complaints received and a response provided by Sydney Water and/or the relevant contractors.
K	A Pre-construction Dilapidation Report shall be submitted to Liverpool City Council for approval prior to the commencement of construction.
L	A Road Safety Audit shall be prepared prior to the commencement of any works and provided to Council for review.
M	Council's on-street assets such as footpath should be protected at all times. Any damages should be rectified to Council satisfaction.

Previous Comments

Dated 31 March 2023, the following comments were previously sent regarding Heritage and Biodiversity.

Heritage Sub-Plan
Council's internal officers have thoroughly reviewed the submitted sub-plans for Heritage. Note that Heritage matters were previously commented on during the initial planning stage. No issues have been raised with the proposal and approach taken for the CEMP.

Biodiversity Sub-Plan
The following changes have been recommended for the Biodiversity sub-plan:

3.2 Targets – Page 12

Original Text	Suggested Replacement
Minimise fauna fatalities resulting from construction activities. Ensure no threatened species fatalities.	*Avoid fatalities to fauna resulting from construction activities. Ensure no threatened species fatalities.*
No disturbance to flora within the project boundary which is non-compliant with project approval conditions.	*No disturbance to flora within the project boundary which is non-compliant with project approval conditions and large remnant trees that are not to be removed are to be tagged for identification.*

No transfer of pathogen / disease from one project area to another	*No transfer of pathogen / disease from one project area to another. All safeguards for pathogens will be followed every morning and afternoon. Phytophthora has been found north of Gurner Avenue, Austral and other Sydney water sites in the locality, please refer to Phytophthora Management Plan for Gurner Ave, Austral Document for further information.*
No wilful pollution or sedimentation of aquatic ecosystems; threatened ecological communities or threatened species habitat.	*Ensure to avoid pollution or sedimentation of aquatic ecosystems; threatened ecological communities or threatened species habitat.*

Page 13- Section 3.3 Environmental Outcomes - How performance outcomes would be achieved.

The below bullet points are recommended additions for the Environmental outcomes section 3.3:

- Compensatory revegetation of native plants.
- Avoid adverse impacts to native habitat.

If you do not understand this letter/application, please ring the Telephone Interpreter Service (131 450) and ask them to contact Council (1300 362 170). Office hours are 8.30 am to 5.00 pm, Monday to Friday.

ARABIC

إذا لم تستطع فهم هذا الطلب ، الرجاء الاتصال بخدمة الترجمة الهاتفية على رقم 131 450 واسألهم أن يتصلوا بالبلدية على رقم 1300 362 170 . دوام ساعات العمل هي من الساعة 8.30 صباحًا إلى 5.00 بعد الظهر من الاثنين إلى الجمعة.

CHINESE

如您看不懂此信 / 申請書，請打電話給「電話翻譯服務台」(131 450)，請他們聯絡市政廳(市政廳電話 1300 362 170)。市政廳辦公時間，星期一至星期五，上午八時三十分至下午五時。

CROATIAN

Ako ne razumijete ovo pismo/aplikaciju, molimo nazovite Službu prevodilaca i tumača (Translating and Interpreting Service - na broj 131 450) i zamolite ih da nazovu Općinu (na 1300 362 170). Radno vrijeme je od 8.30 ujutro do 5.00 popodne, od ponedjeljka do petka.

GERMAN

Wenn Sie diesen Brief/Antrag nicht verstehen können, rufen Sie bitte den Telefon Dolmetscher Dienst (Telephone Interpreter Service) (131 450) an und lassen Sie sich vom Personal mit dem Gemeinderat (Council) in Verbindung setzen (1300 362 170). Geschäftsstunden sind von 8:30 bis 17:00 Uhr, montags bis freitags.

GREEK

Αν δεν καταλαβαίνετε αυτή την επιστολή/αίτηση, σας παρακαλούμε να τηλεφωνήσετε στην Τηλεφωνική Υπηρεσία Διερμηνέων (131 450) και να τους ζητήσετε να επικοινωνήσουν με το Δημοτικό Συμβούλιο (1300 362 170). Τα γραφεία του είναι ανοιχτά από τις 8.30π.μ. μέχρι τις 5.00μ.μ. από Δευτέρα μέχρι και Παρασκευή.

HINDI

अगर आप इस पत्र/आवेदन को पढ़कर समझ नहीं पा रहे हैं तो कृपया टेलीफ़ोन संवाद-सहायक सेवा (131 450) को फ़ोन करें और उनसे काउंसिल (1300 362 170) से संपर्क करने को कहें। कार्यालय का समय सोमवार से शुक्रवार तक प्रातः ८:३० बजे से सायं ५:०० तक है।

ITALIAN

Se non comprendi questa lettera/questo modulo di domanda, telefona al Servizio traduzioni e interpreti al numero 131 450 chiedendo di essere messo in contatto con il Comune (telefono 1300 362 170). Orario d'ufficio: ore 8.30 -17.00, dal lunedi al venerdi.

KHMER

បើលោកអ្នកមិនយល់ពីអត្ថន័យឬការប្រតិបត្តិនេះទេ សូមទូរស័ព្ទទៅសេវាបកប្រែភាសាតាមទូរស័ព្ទ (លេខ 131 450) ហើយស្នើសុំឲ្យគេទាក់ទងសាលាក្រុង (លេខ 1300 362 170)។ ពេលម៉ោងធ្វើការគឺម៉ោង 8 កន្លះព្រឹកដល់ម៉ោង 5 ល្ងាច ពីថ្ងៃច័ន្ទដល់ថ្ងៃសុក្រ

MACEDONIAN

Ако не го разбирате ова писмо/апликација, ве молиме да се јавите во Телефонската преведувачка служба на 131 450 и замолете ги да стапат во контакт со Општината на 1300 362 170. Работното време е од 8.30 часот наутро до 5.00 часот попладне од понеделник до петок.

MALTESE

Jekk ma tifhimx din l-ittra/applikazzjoni, jekk jogħġbok ċempel lis-Servizz ta' l-Interpretu bit-Telefon (131 450) u itlobhom jikkuntattjaw il-Kunsill (1300 362 170). Il-ħinijiet ta' l-Uffiċċju huma mit-8.30a.m. sal-5.00p.m., mit-Tnejn sal-Ġimgħa.

POLISH

Jeśli nie rozumiesz treści niniejszego pisma/podania, zadzwoń do Telefonicznego Biura Tłumaczy (Telephone Interpreter Service) pod numer 131 450 I poproś o telefoniczne skontaktowanie się z Radą Miejską pod numerem 1300 362 170. Godziny urzędowania: 08.30-17.00 od poniedziałku do piątku.

SERBIAN

Ако не разумете ово писмо/апликацију, молимо вас да назовете Телефонску преводилачку службу (131 450) и замолите их да контактирају Општину (1300 362 170). Радно време је од 8.30 ујутро до 5.00 поподне, од понедељка до петка.

SPANISH

Si Ud. no entiende esta carta/solicitud, por favor llame al Servicio Telefónico de Intérpretes (131 450) y pídales que llamen a la Municipalidad (Council) al 1300 362 170. Las horas de oficina son de 8:30 am a 5:00 pm, de lunes a viernes.

TURKISH

Bu mektubu veya müracaatı anlayamazsanız, lütfen Telefon Tercüme Servisi'ne (131 450) telefon ederek Belediye ile (1300 362 170) ilişkiye geçmelerini isteyiniz. Çalışma saatleri Pazartesi - Cuma günleri arasında sabah saat 8:30 ile akşam 5:00 arasıdır.

VIETNAMESE

Nếu không hiểu thư/đơn này, xin Quý Vị gọi cho Telephone Interpreter Service (Dịch Vụ Thông Dịch Qua Điện Thoại), số 131 450, và nhờ họ liên lạc với Council (Hội Đồng), số 1300 362 170. Giờ làm việc là 8 giờ 30 sáng đến 5 giờ 00 chiều, Thứ Hai đến Thứ Sáu.

From: Jerard Tungcab
To: Alyce Harrington-JHG
Cc: CAHILL, CHERYL; Cameron Varricchio; Mira Segaran-JHG; Michael Robertson-JHG
Subject: RE: Upper South Creek (SSI-8609189) - LCC - CEMP Sub-plan consultation feedback
Date: Friday, 31 March 2023 11:33:02 AM
Attachments: image012.png
image013.png
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image016.png
image017.png

Good Morning Alyce,

This is regarding the Upper South Creek Advanced Water Recycling Centre (AWRC) CEMP referrals. Please read the email to ensure understanding of Council's referral process.

Ordinarily, the current practice involves an applicant providing all of them in bulk to Council for comment. Whilst I understand from our phone correspondence that Sydney Water has specifically chosen this approach, it is procedurally difficult for Council to make comment when sub-plans are scattered with different circulation dates and deadlines. I have provided comments below regarding Heritage and Biodiversity in due courtesy as no further internal consultation is needed in any case.

Heritage Sub-Plan
Council's internal officers have thoroughly reviewed the submitted sub-plans for Heritage. Note that Heritage matters were previously commented on during the initial planning stage. No issues have been raised with the proposal and approach taken for the CEMP.

Biodiversity Sub-Plan
The following changes have been recommended for the Biodiversity sub-plan; the top line in italics being the original and the line below being the revised:

3.2 Targets – Page 12

- *Minimise fauna fatalities resulting from construction activities. Ensure no threatened species fatalities.*
  - Avoid fatalities to fauna resulting from construction activities. Ensure no threatened species fatalities.
- No *disturbance to flora within the project boundary which is non-compliant with project approval conditions.*
  - No disturbance to flora within the project boundary which is non-compliant with project approval conditions and Large remnant trees that are not to be removed are to be tagged for identification.
- *No transfer of pathogen / disease from one project area to another.*
  - No transfer of pathogen / disease from one project area to another. All safeguards for pathogens will be followed every morning and afternoon. Phytophthora has been found north of Gurner Avenue, Austral and other Sydney water sites in the locality, please refer to Phytophthora Management Plan for Gurner Ave, Austral Document for further information.
- *No wilful pollution or sedimentation of aquatic ecosystems; threatened ecological communities or threatened species habitat.*
  - Ensure to avoid pollution or sedimentation of aquatic ecosystems; threatened ecological communities or threatened species habitat.

Page 13- Section 3.3 Environmental Outcomes - How performance outcomes would be achieved.
The below bullet points are recommended for Environmental outcomes section 3.3:

- Compensatory revegetation of native plants.
- Avoid adverse impacts to native habitat.

Note that Council's internal technical officers are dispersed through different teams; for instance, I am unable to give you comment on the 'Flood Emergency Response' sub-plan due to the fact not all teams have had a chance to respond (Council's flooding team have provided comment, but not the Traffic team who need to comment on the 'Flood Emergency Response' sub-plan, but were waiting on the 'Traffic and Transport' sub-plan to make a full assessment). From a technical review, it is improper to review sub-plan isolated from one another and risks having an incomplete assessment; please advise Sydney Water that any further sub-plan engagement should be provided to Council in one complete package with one set deadline.

I have created the following table summarising progress of the sub-plan assessment:

Sub-Plan	Responsible Council Officer/Team	Status
Surface Water & Ground Water	Environmental Health Team	Sub-plans have not yet been circulated.
Flood Emergency Response	Flooding Team Transport Management Team	Flooding team have provided a response; however, Transport Management Team have yet to provide comment due to awaiting the 'Traffic and Transport' sub-plan. Comments will be provided once assessed
Soils and Contamination	Environmental Health Team	Environmental Health Team are awaiting 'Surface Water & Ground Water' sub-plan to formulate a complete response
Biodiversity	Biodiversity Officer	Comments provided above.
Noise and Vibration	Environmental Health Team	Environmental Health Team are awaiting 'Surface Water & Ground Water' sub-plan to formulate a complete response
Traffic & Transport	Transport Management Team	Awaiting response; sub-plan circulated to Council 28th March 2023
Heritage	Heritage Officer	No concerns raised with proposal and approach
Air Quality	Environmental Health Team	Environmental Health Team are awaiting 'Surface Water & Ground Water' sub-plan to formulate a complete response

Further comments will be provided based on the final sub-plan circulated to Council with a due date (in this case, Surface Water & Ground Water).

Sincerely,
Jerard Tungcab
Strategic Planner
LIVERPOOL CITY COUNCIL
02 8711 7860 | | TungcabJ@liverpool.nsw.gov.au
Customer Service: 1300 36 2170 |
www.liverpool.nsw.gov.au

We acknowledge the traditional custodians of the land that now resides within Liverpool City Council's boundaries, the Darug and Dharawal nations and pay our respects to their Elders past, present and emerging.

This email (including any attachments) may contain confidential and/or legally privileged information. If you are not the intended recipient please delete this email and notify us by telephone. Any privilege is not waived and the storage, use or reproduction is prohibited.

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Friday, March 24, 2023 4:40 PM
To: Jerard Tungcab <TungcabJ@liverpool.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>
Subject: Upper South Creek (SSI-8609189) - LCC - CEMP Sub-plan consultation feedback

Hello Jerard,

It was good to chat with you earlier this afternoon, I really appreciate the call.

As discussed, John Holland on behalf of Sydney Water have issued the Upper South Creek CEMP and Sub-plans in a progressive fashion and would appreciate it if Council could issue back as soon as possible, any plans that have comments available.

You indicated that the Flood Emergency Response and Heritage CEMP Sub-plans have comments, so if you could please send those through now, we can get working on them straight away.

With regard to the remaining plans (including the Traffic & Transport and Surface Water & Groundwater CEMP Sub-plans to be issued imminently), could Council please provide any remaining comments by COB Monday 03 April 2023.

Thank you again and please reach out if you have any other questions.

Cheers,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Disclaimer

This email has been scanned for viruses and malware, and may have been automatically archived by **Mimecast Ltd**, on behalf of **Liverpool City Council.**

Appendix 6 – Fairfield City Council – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (FCC)
Date:	Wednesday, 8 March 2023 2:14:27 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

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Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 4:53 PM
To: Alison Mortimer <amortimer@fairfieldcity.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (FCC)

Good afternoon Alison,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Fairfield City Council (FCC). A list of the plans and

programs relevant to FCC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to FCC, the **Flood Emergency Response CEMP Sub-plan** (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for FCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Fairfield Council meeting minutes 13.03.2023
Date:	Friday, 28 April 2023 7:43:35 AM
Attachments:	Fairfield City Council Early Coordination Meeting.pdf 20230313_Fairfield Council meeting minutes_FINAL.pdf image001.png image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png image011.png image012.png

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Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From: Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>
Sent: Thursday, 30 March 2023 4:31 PM
To: amortimer@fairfieldcity.nsw.gov.au; mshah@fairfieldcity.nsw.gov.au; AMooney@fairfieldcity.nsw.gov.au
Cc: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>; Michael Robertson <michael@mrcommunications.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; Mark Trethewy-JHG <Mark.Trethewy@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Belinda Dechnik-JHG <Belinda.Dechnik@jhg.com.au>
Subject: Fairfield Council meeting minutes 13.03.2023

Hi All,

Please see attached meeting minutes from 13.03.2023.

The 50% design drawings are within the attached slide pack.

Thank you,

Rama Sapkota
Senior Community Engagement Advisor - Upper South Creek project

Meeting Minutes

Title	Stakeholder meeting with Fairfield City Council on 50% design completion
Date	13/03/2023
Time	3:00pm
Held at	Teams Meeting

Chaired by	Michael Robertson
Minuted by	Rama Sapkota
Distribution Date	

Attendees List

Aidan O'Driscoll (AO), Construction Manager, JHG
Michael Robertson (MR), Community Manager, JHG
Mark Trethewey (MT), Sustainability Manager, JHG
Darragh O'Brien (DO), Environment Lead, JHG
Rama Sapkota (RS), Senior Community Advisor, JHG
Andrew Mooney, Executive Strategic Planner, Fairfield City Council
Kerren Ven, Strategic Planner, Fairfield City Council
Mursaleen Shah, Design Coordinator, Fairfield City Council
Zahid Hassan, Asset Manager - Civil and Built, Fairfield City Council

Apologies List

Alyce Harrington (AH), Environment & Approvals Manager, JHG

IDescription / Action	By Whom	By When
Acknowledgement of Country	MR	
An introduction of the project and the meeting attendees.	MR	
AO went through the treated pipeline water overview, overview of the project in the area and gave overview of timing of design process. He mentioned there will be impacts to local streets and residential roads, work underneath the Sydney Trains corridor at Cabramatta, under Cowpasture Road and on TfNSW Roads.	MR	

AO advised that works will impact parking lane on North Liverpool Road and Montgomery Road.

MS enquired about the pipe size.

AO clarified the pipe size has been updated and explained.

MS enquired if EPA has been consulted, impacts during construction, hazards of the materials that is going to be discharged (Class 2 discharge material).

AO explained the process of design process of the valve and material discharge. It will be discharged into an existing sewer.

MS enquired about the emergency procedure of a leak or any incident and how it will be managed?

ACTION: AO to provide information on emergency protocol and send it to Council. Link to EIS Chapter 4 Section 4.6.2 (Volume 2_ Project Information and Construction_ Part 2 (nsw.gov.au)). **Complete**

Council enquired about construction impacts and ongoing impacts, private property impact of trenches or will it be on the roadway. What will be the construction timing? What will be impact on the roads and public infrastructure? Impact to maintenance of SW asset?

AO explained the construction methodology and scour chambers. It is designed for no rework and asset is expected last for 100 years. EIS exhibition was carried out in the planning phase which address the concerns raised. The site mobilisation in July.

AM requested for the MCOA and planning approvals.

ACTION: FCC to review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders- Upper South Creek Advanced Water Recycling Centre | Planning Portal - Department of Planning and Environment (nsw.gov.au). **Link to project website:** www.sydneywatertalk.com.au/uppersouthcreek

MS enquired about how the ROLs will be managed.

AO advised that site specific traffic management plan is currently being prepared and would like to get Council feedback.

ACTION: FCC to provide Traffic management team contact.

MS provided advice on Traffic construction plan. The day work time and night time work; start and finish time will be provided in the TCP. It will be indicative times.

Council enquired how will the project rectify Council asset? They wanted clarification on who will carry out the restoration?

ZH spoke about the Council requirement and apply for a Road Reserve Clearance Certificate Application.

AO advised that the project team will carry out restoration upon completion.

MS enquired if the pipeline will go through CBD?

AO advised the project avoids CBD but does go through busy streets.

What is the duration of the project?

AO advised that it will conclude around mid 2025.

MS enquired about the HDPE lifecycle? He mentioned that it usually comes with a 25 years lifecycle.

AO advised the HDPE will have a longer life cycle than 25 years.

MS enquired about how the trenching will be carried out?

MR advised that trenching methodology and the construction approach.

Council enquired about the risk during ongoing construction to Council asset; existing stormwater. How to avoid that?

AO advised it is addressed in the 90% design which will be finalised in six weeks' time and will show all Council assets.

MS enquired if pipes will be in the centre of the road?

AO advised that pipes will go in the parking lane? Most of the pipes is under the curb.

MS enquired if there will be road closures?

AO advised the plan is to take two of the four lanes.

MS enquired about how is the noise and dust going to be managed, environment impacts, complaints and night works?

Note: Addressed in the environment management plans, FCC to review the CEMP and sub-plans emailed to dbegnell@fairfieldcity.nsw.gov.au for **council review and complaints line 1800 064 127.**

DO spoke about the mitigation of the dust, noise, complaints and out of hour work. He spoke about the mitigation measures during works.

AO went through the key construction areas.

MS enquired about booster stations along the way.

AO advised that there will be valves but no booster stations.

ZH enquired will the permanent restoration be completed to Council Specs?

AO advised that it will be done to Council Specs.

MS requested for the slides.

ACTION: RS to send the slides and meeting minutes. Complete

MS advised to have early consultation with residents about parking space impacts. Council would like to work with JHG about the parking impacts and have early conversation with residents.

AO advised that consultation will be carried out prior to any impacts to residents.

DO went through the environment slides.

MS enquired if the EPL will be publicly available?

DO advised that EPL application is underway and going through the process currently.

MS enquired about the water discharge and water quality? He noted these are question the community will ask them.

ACTION: CEMP has been sent to council. It outlines mitigation measures around water discharge and quality. Complete

MT went through the sustainability slides and request for Council input.

MT requests if Fairfield Council could please identify the best environment or sustainability contact to address further council and USC collaboration opportunities proposed on Sustainability slides (e.g. asset resilience in response to climate change, material/water/waste reuse/recycling opportunities).

MS enquired about how will contaminated materials is found during trenching be disposed of?

MT advised that it is more of an environmental query.

AO advised contaminated material will be taken offsite and be disposed at a licenced facility and it will be tracked. AO advised its covered under the EPL.

MS advised that Council must be notified of the contamination and requested to be notified? In case there are questions from landowners.

MR went through the community slides and requested for any upcoming Council festivals? Also, shared the Community Engagement Plan and requested to pass on to their community team.

AM mentioned that there is a Fairfield markets every weekend if you want to do a pop up. Advised the festivals will be too hectic not as beneficial as the weekend market.

ACTION: Council to review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders
www.sydneywatertalk.com.au/53513/widgets/322594/documents/251449
Link to the project website: www.sydneywatertalk.com.au/uppersouthcreek

MS enquired about the parameters of the materials that is going to transported – type of water or material. BUD, CUD, dissolve solid, bio solids – requested share EPL.

MR advised that most of these are in the EIS and will point in the right section of the EIS.

ACTION: EIS Chapter 8 Section 8.7 (Volume 3_Impact Assessment_Part 1 (nsw.gov.au)) **EIS Appendix F Section 6** (Appendix F_Hydrodynamic and Water Quality Impact Assessment_Part 1 (nsw.gov.au)) . **Complete**

ACTION: There will be specific targeted meetings on an as-needs basis going forward and will arrange specific teams to attend the meeting.

AM advised that contact MS will be the main point of contact.

Summary of key issues or interests raised by Council

- Construction impacts and mitigation measures
- Night work
- Construction duration
- Risk management (from potential pipe leak)
- Planning approvals and Minister's Conditions of Approval
- Road applications and restoration approach
- If construction will be through any town centres
- Pipe life – any operational impact to Council from the pipe being in the road?
- Pipe locations
- Pipe materials
- Type of water in the brine pipe – chemical make up of the water
- Would like to review design drawings **(ACTION: RS to share 50% design drawings via the attached slide pack) Complete**
- Keen to stay involved and review construction and traffic management approach
- Copy of EPL
- Unexpected finds policy – Council doesn't want to have to pay for any finds
- Fairfield Markets are a good opportunity to meet the community

	Could council please confirm the above list to allow the Project to be aware that council's key concerns are understood?

From:	Alyce Harrington-JHG
To:	MShah@fairfieldcity.nsw.gov.au
Cc:	Zahid Hassan; Daniel Begnell; Darragh O"Brien-JHG; Mira Segaran-JHG
Subject:	RE: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)
Date:	Monday, 3 April 2023 5:20:31 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png

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Hi Mursaleen,

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At Sydney Water's request, the plans have been progressively submitted to FCC from Wednesday 01 March 2023. It would be greatly appreciated if you could submit any comments available from those plans submitted approximately 4 weeks ago in early March, as soon as possible so we can review and make the appropriate amendments.

If you have any questions, please do not hesitate to contact me.

Thank you,

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Upper South Creek

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Subject: RE: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)

Good Morning Alyce

Could you please send the list of the plans and programs for the subject project to Mursaleen Shah whom I have copied in this email. I will provide comments relevant to infrastructure assets to him if required.

Regards,

Zahid Hassan
Asset Manager – Civil and Built | Asset Management
City Assets & Operations

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Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>

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Good evening,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Fairfield City Council (FCC). A list of the plans and programs relevant to FCC is provided below.

C4

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C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to FCC, the **Traffic & Transport CEMP Sub-plan** (TTCSP, C4(f)). Please note that as there are a number of references to sections within the CEMP throughout the TTCSP, John Holland has also provided a copy of the CEMP for FCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Tuesday 13 April 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

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Upper South Creek

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To:	Alyce Harrington-JHG
Cc:	Zahid Hassan; Daniel Begnell; Darragh O"Brien-JHG; Mira Segaran-JHG
Subject:	RE: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)
Date:	Tuesday, 4 April 2023 8:14:06 AM
Attachments:	image015.png image016.png image021.png image022.png image023.png image024.png image025.png image026.png image027.png image028.png image029.png image030.png

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I note, there are several questions regarding the proposed project. Those questions are primarily related to the impacts on public infrastructure, the process for the delivery of construction activities, and impacts on the community during construction and operation. It is yet to be determined how Council will respond to those questions.

Regards

Mursaleen Shah| Design Services Coordinator
Design Services | City Delivery
PO Box 21, Fairfield NSW 1860
M 0447 721 321
P 02 9725 0144

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Attachments:	image002.png image003.png image008.png image009.png image010.png image011.png image012.png image013.png image014.png image015.png image016.png image017.png

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In addition to the email below, please note I am not a point of contact for this project.

Please use your appropriate point of contacts for your further emails or send it to Council's email address or phone number.

Mursaleen Shah| Design Services Coordinator
Design Services | City Delivery
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P 02 9725 0144

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Sent: Monday, 3 April 2023 5:20 PM
To: Mursaleen Shah <MShah@fairfieldcity.nsw.gov.au>
Cc: Zahid Hassan <ZHassan@fairfieldcity.nsw.gov.au>; Daniel Begnell <DBegnell@fairfieldcity.nsw.gov.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
Subject: RE: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)

Hi Mursaleen,

To follow up on Zahid's correspondence last week, please see below a list of plans and programs relative to the Upper South Creek AWRC Project that have been issued by John Holland to Fairfield City Council.

- Air Quality CEMP Sub-plan (issued 01 March 2023)
- Flood Emergency Response CEMP Sub-plan (issued 02 March 2023)
- Heritage CEMP Sub-plan (issued 03 March 2023)
- Biodiversity CEMP Sub-plan (issued 03 March 2023)
- Soils & Contamination CEMP Sub-plan (issued 11 March 2023)
- Noise & Vibration CEMP Sub-plan (including the noise & vibration construction monitoring program) (issued 07 March 2023)
- Traffic & Transport CEMP Sub-plan (issued 28 March 2023)
- Surface Water & Groundwater CEMP Sub-plan (including the surface water quality and groundwater construction monitoring programs) (issued 31 March 2023)

At Sydney Water's request, the plans have been progressively submitted to FCC from Wednesday 01 March 2023. It would be greatly appreciated if you could submit any comments available from those plans submitted approximately 4 weeks ago in early March, as soon as possible so we can review and make the appropriate amendments.

If you have any questions, please do not hesitate to contact me.

Thank you,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Zahid Hassan <ZHassan@fairfieldcity.nsw.gov.au>
Sent: Wednesday, 29 March 2023 9:11 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Mursaleen Shah <MShah@fairfieldcity.nsw.gov.au>; Daniel Begnell <DBegnell@fairfieldcity.nsw.gov.au>
Subject: RE: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)

Good Morning Alyce

Could you please send the list of the plans and programs for the subject project to Mursaleen Shah whom I have copied in this email. I will provide comments relevant to infrastructure assets to him if required.

Regards,

Zahid Hassan
Asset Manager – Civil and Built | Asset Management
City Assets & Operations

PO Box 21, Fairfield NSW 1860
P 9725 0248 | M 0418 863 083

www.fairfieldcity.nsw.gov.au
mail@fairfieldcity.nsw.gov.au

From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Tuesday, 28 March 2023 10:36 PM
To: Daniel Begnell <DBegnell@fairfieldcity.nsw.gov.au>; Mail Mail <mail@fairfieldcity.nsw.gov.au>; Zahid Hassan <ZHassan@fairfieldcity.nsw.gov.au>
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(f) - Traffic & Transport CEMP Sub-plan - for consultation (FCC)

Good evening,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with relevant government agencies, including Fairfield City Council (FCC). A list of the plans and programs relevant to FCC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to FCC, the **Traffic & Transport CEMP Sub-plan** (TTCSP, C4(f)). Please note that as there are a number of references to sections within the CEMP throughout the TTCSP, John Holland has also provided a copy of the CEMP for FCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Tuesday 13 April 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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This email is intended for the addressee(s) named and may contain confidential and\or privileged information. If you are not the intended recipient, please delete it immediately and notify the sender. Any views expressed in this email, are those of the individual sender, except where the sender expressly and with authority, states them to be the view of Fairfield City Council.
This email is intended for the addressee(s) named and may contain confidential and\or

From:	Alyce Harrington-JHG
Bcc:	CAHILL, CHERYL; Cameron Varricchio; Michael Robertson-JHG; Rob Cranston-JHG; Jason Julius-JHG; Darragh O"Brien-JHG; Simone Kenyon-JHG; bianca.klein@wollondilly.nsw.gov.au; ari.fernando@penrith.city; tungcabj@liverpool.nsw.gov.au; Alison Mortimer; Daniel Begnell; mail@fairfieldcity.nsw.gov.au; Mathew Harland; Nafizul Akash; Ibrahim Muharrem; Zahid Hassan
Subject:	Upper South Creek (SSI-8609189) - CEMP and Sub-plans consultation period
Date:	Wednesday, 26 April 2023 4:44:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png

Good afternoon,

Over recent weeks, John Holland on behalf of Sydney Water has been issuing documents to relevant government agencies and local councils in relation to the Upper South Creek Advanced Water Recycling Centre project.

These documents include the project's Construction Environmental Management Plan (CEMP) and associated sub-plans as summarised below:

- USC Construction Environmental Management Plan (CEMP)
- USC Air Quality CEMP Sub-plan
- USC Flood Emergency Response CEMP Sub-plan
- USC Heritage CEMP Sub-plan
- USC Biodiversity CEMP Sub-plan
- USC Noise & Vibration CEMP Sub-plan
- USC Traffic & Transport CEMP Sub-plan
- USC Surface Water & Groundwater CEMP Sub-plan
- USC Soils & Contamination CEMP Sub-plan

Please note that whilst the formal consultation period for the above documents has now ended, John Holland would welcome any future opportunity to engage with you on matters related to the project.

If you have any further questions related to this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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Appendix 7 – Canterbury Bankstown City Council – Evidence of Consultation

From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (CBCC)
Date:	Wednesday, 8 March 2023 2:14:38 PM
Attachments:	USCP-JHG-MPL-ENV-0004 Flood Emergency Response CEMP Sub-plan (Rev 02)_clean and consolidated.pdf USCP-JHG-MPL-ENV-0008 Upper South Creek CEMP (Rev 04)_clean and consolidated.pdf image001.png image002.png image003.png image004.png image005.png image006.png

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Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Alyce Harrington-JHG
Sent: Thursday, 2 March 2023 4:56 PM
To: Tim.IRELAND@cbcity.nsw.gov.au; Paul.ANGEL@cbcity.nsw.gov.au; Peter.Lay@cbcity.nsw.gov.au
Cc: CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>; Rob Cranston-JHG <Rob.Cranston@jhg.com.au>; Jason Julius-JHG <Jason.Julius@jhg.com.au>; Michael McIlveen-JHG <Michael.McIlveen@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>
Subject: Upper South Creek (SSI 8906189) CoA C4(b) - Flood Emergency Response CEMP Sub-plan - for consultation (CBCC)

Good afternoon,

John Holland has recently been awarded a contract by Sydney Water to design, construct and commission Stage 1 of the Upper South Creek Advanced Water Recycling Centre and Pipelines Project (herein referred to as 'USC Project' or 'the Project'). The Project was approved by the Minister for Planning, Anthony Roberts on Monday 28 November 2022 (SSI-8609189) and in accordance with the relevant conditions of approval (CoA) C1 and C2, John Holland has prepared a Construction Environmental Management Plan (CEMP).

CoA C4 and CoA C13 requires a number of CEMP Sub-plans and Construction Monitoring Programs, respectively, to support the CEMP and they must be developed in consultation with

relevant government agencies, including Canterbury-Bankstown City Council (CBCC). A list of the plans and programs relevant to CBCC is provided below.

C4

a. Surface Water & Groundwater CEMP Sub-plan (USCP-JHG-MPL-ENV-0001) (SWGCSP)
b. Flood Emergency Response CEMP Sub-plan (USCP-JHG-MPL-ENV-0002) (FERCSP)
c. Soils & Contamination CEMP Sub-plan (USCP-JHG-MPL-ENV-0003) (SCCSP)
d. Biodiversity CEMP Sub-plan (USCP-JHG-MPL-ENV-0004) (BCSP)
e. Noise & Vibration CEMP Sub-plan (USCP-JHG-MPL-ENV-0007) (NVCSP)
f. Traffic & Transport CEMP Sub-plan (USCP-JHG-MPL-ENV-0005) (TTCSP)
g. Heritage CEMP Sub-plan (USCP-JHG-MPL-ENV-0006) (HCSP)
h. Air Quality CEMP Sub-plan (USCP-JHG-MPL-ENV-0009) (AQCSP)

C13

a. Surface Water Quality Construction Monitoring Program (Appendix E of the SWGCSP)
c. Noise & Vibration Construction Monitoring Program (Appendix E of the NVCSP)

John Holland proposes to issue the relevant plans and programs progressively, following review and approval by Sydney Water. As such, John Holland on behalf of Sydney Water, is please to present to CBCC, the Flood Emergency Response CEMP Sub-plan (FERCSP, C4(b)). Please note that as there are a number of references to sections within the CEMP throughout the FERCSP, John Holland has also provided a copy of the CEMP for CBCC reference.

It would be greatly appreciated if any comments regarding this submission are provided by close of business Wednesday 15 March 2023.

If you have any questions regarding this submission, please contact me.

Thank you,

Alyce Harrington
Environment & Approvals Manager
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

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From:	Alyce Harrington-JHG
To:	Mira Segaran-JHG
Subject:	FW: Canterbury-Bankstown Council meeting minutes 17.03.2023
Date:	Friday, 28 April 2023 7:43:24 AM
Attachments:	20230317_Canterbury Bankstown_Council meeting minutes_FINAL.pdf image001.png image002.png image003.png image004.png image005.png image006.png Bankstown City Council Early Coordination Meeting1 (1).pdf image007.png image008.png image009.png image010.png image011.png image012.png

---

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
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E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>
Sent: Thursday, 30 March 2023 3:41 PM
To: Paul.Angel@cbcity.nsw.gov.au; Tim.IRELAND@cbcity.nsw.gov.au; Peter.Lay@cbcity.nsw.gov.au; michael.conway@cbcity.nsw.gov.au; Anna.Griggs@cbcity.nsw.gov.au; cameron.crawford@cbcity.nsw.gov.au
Cc: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>; Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Mark Trethewy-JHG <Mark.Trethewy@jhg.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>
Subject: Canterbury-Bankstown Council meeting minutes 17.03.2023

Hi All,

Please see attached meeting minutes from 17.03.2023.

The 50% design drawings are within the attached slide pack.

Thank you,

Rama Sapkota
Senior Community Engagement Advisor - Upper South Creek project

Meeting Minutes

Title	Stakeholder meeting with Canterbury Bankstown Council on 50% design completion
Date	17/03/2023
Time	2:00pm
Held at	Teams Meeting

Chaired by	Michael Robertson
Minuted by	Rama Sapkota
Distribution Date	

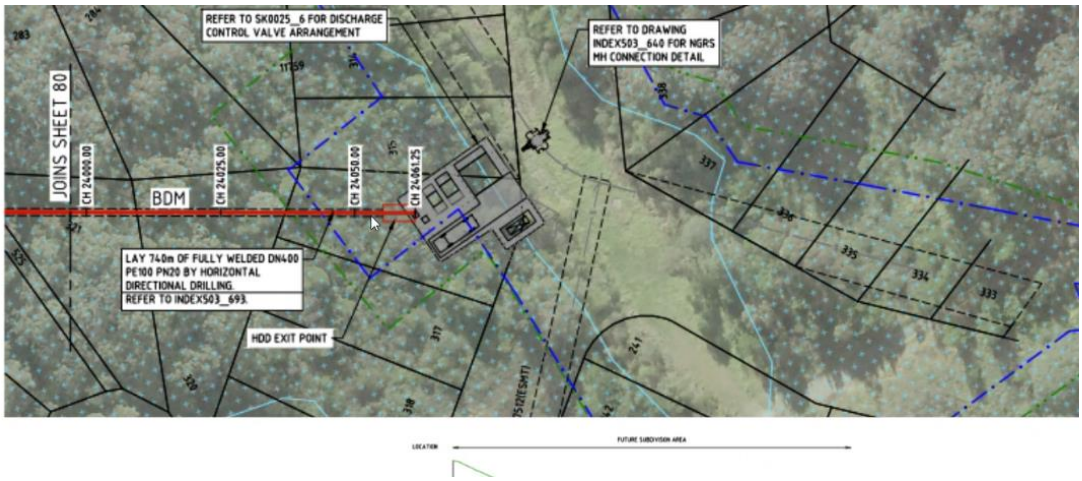
Attendees List

Aidan O'Driscoll (AO), Construction Manager, JHG
Michael Robertson (MR), Community Manager, JHG
Alyce Harrington (AH), Environment & Approvals Manager, JHG
Mark Trethewey (MT), Sustainability Manager, JHG
Rama Sapkota (RS), Senior Community Advisor, JHG
Cameron Crawford (CC), Environmental Planner, Canterbury-Bankstown Council
Glen Moody(GM), Coordinator Asset Planning, Open Space and Buildings, Canterbury-Bankstown Council
David Milner (DM), Senior Infrastructure Services Officer, Canterbury-Bankstown Council
Paul Angel (PA), Bushcare coordinator, Canterbury-Bankstown Council

Apologies List

Description / Action	By Whom	By When
Acknowledgement of Country	MR	
An introduction of the project and introduced the meeting attendees.	MR	
AO provided an overview of the project in the area, treated and brine pipeline and gave overview of timing of design process. DM enquired if the trenching was at bottom end of the sewer? GM enquired if 750m of the project is within their LGA?		

AO confirmed yes.
CC enquired about the timing of the project.
AO went through the project milestone.
AO advised the site set up for this area and will have machinery for a large underbore. This set up will be early due to the sizeable work at this location.
DM enquired about the approach to Lansdowne Reserve?
AO explained the approach methodology including rig set up on either side of the Lansdowne Reserve.
PA advised at the earlier planning stage the approach to the Lansdowne Reserve was different and concerned about impact on biobank site; why is the pipe being pulled from Lansdowne side and not the Chipping Norton side?
AO advise that methodology of coming in from the Lansdowne side.
PA advised that what he has heard previously is opposite to what the current methodology is. Nine months ago it was the opposite as Sydney Water was trying to avoid impacts to Lansdowne biobanking area.
CC explained the methodology in detail, and this will not go through the bio bank.
PA spoke about the heavy truck access to the bore hole site.
ACTION: John Holland will confirm approach for construction within Lansdowne Reserve and the heavy vehicle approach to site.
AO explained the proposed connection to existing sewer and alternate access will be from Henry Lawson Drive.



PA enquired about the image above.

AH explained the construction boundary, showed layers on the GIS and spoke about the revised design as originally approved in the EIS. She also spoke about the Impact Assessment Area. She spoke to the praticality of the EIS access and proposed an alternate access through the fire trail which will give an opportunity to reduce the impact.

AH noted council's concern.

PA concerned about the access from the North as the access routes are not in place. PA spoke about access via western side from Henry Lawson Drive would be better. It may need some work to enable vehicles to come through but at least you don't need to clear bush from the north (with the EIS option). Less disturbance to bush and undisturbed soils. Disturbance and then revegetation from the fire trail to the southwest makes sense and the revegetation will be more beneficial to an already disturbed area.

AH advise that that's what they want to speak to Council about.

GM - is the alternate acceess the replacement or additional access?

AH advise this is the alternate access and the proposed new access will have less impact to bio diversity. Proposed new access would be instead of the access from Tillett Pde from the north rather than in addition to.

PA advised Council favours the southern access.

AO advised the original access as per EIS will have a bigger impact and will require more vegetation clearing.

Henry Lawson Drive – will there be TfNSW approval around the amount of vehicles accessing in and out of site?

AO advised that it will go though TMC and necessary TfNSW apprvovals willl be sought prior to works.

PA enquired if there is a depot site at the location – advised that there are opportunities to use the open space to use Henry Lawson Drive which can be turned into a lane.

AH went though the environmental slides and advsied the sub-plans were issued to Council. Would appreciate any feedback form Council.

DM advsied the sub-plans need to come directly to them. Advised that 4/5 subplans have come through. He will check with PA.

NOTE: Send a list of subplans to DM and he will issue accordingly.

MT went through the slides and requested if Council could please identify the best environment or sustainability contact to address further council and USC collaboration opportunities proposed on Sustainability slides (e.g. asset resilience in response to climate change, material/water/waste reuse/recycling opportunities).

DM advsied that they will send the sustainability contact to JHG.

ACTION: Council to send sustainability contact to JHG.

MR went through the community slides and requested for any upcoming Council festivals? Also, shared the Community Engagement Plan and requested to pass on to their community team.

ACTION: Council to review Community & Stakeholder Engagement Plan and comment on the planned engagement activities and stakeholders
www.sydneywatertalk.com.au/53513/widgets/322594/documents/251449
Link to the project website: www.sydneywatertalk.com.au/uppersouthcreek
Link to planning documents: Upper South Creek Advanced Water Recycling Centre | Planning Portal - Department of Planning and Environment (nsw.gov.au).

PA enquired about the vegetation and maintenance. Council invested money was the vegetation offset, now the trees are maturing and shared concerns that mature trees will be destroyed during this work. Will the council land be re-vegetated and how will be tha land be restored?

AH informed that bio diversity offset has been approved and will take back to SW what mitigation was proposed.

AH advised there is a rehabiliation plan and it will in agreement with Sydney Water.

ACTION: AH to Send Rehabilitation Management Plan.

CM shared concern that it is hard to comment on the design without knowing the rehabiliation plan.

DM noted that SW property should be in contact with the Council's property team.There are Council requirements to get access and would like to have early conversation to facilitate it.

ACTION: Pass on Council details to SW property team to liaise directly. Completed by MR.

PA shared concerns about the rehabilitation, advsied that it will be better to go through the disturbed area and rehabilitate from the Northern end.

AO advised they are looking at alternate access from the south.

MR summarised the issues and asked if there were more questions.

Summary of key issues or interests raised by Council

- Duration in the reserve
- Boring from Lansdowne Reserve
- Impact on biobank site – why is the pipe being pulled from Lansdowne side and not the Chipping Norton side? Nine months ago it was the opposite as Sydney Water was trying to avoid impacts to Lansdowne biobanking area
- Key interest in bio banking
- Any clearing of offset vegetation
- Access via western side from Henry Lawson Drive would be better. It may need some work to enable vehicles to come through but at least you don't need to clear bush from the north (with the EIS option). Less disturbance to bush and undisturbed soils. Disturbance and then revegetation from the fire trail to the southwest makes sense and the revegetation will be more beneficial to an already disturbed area.
    - Proposed new access would be instead of the access from Tillett Pde from the north rather than in addition to – preferred by Council too
- Reviews needed by TfNSW and Council for access off Henry Lawson Drive – for noting
- Acquisition of land / property impacts
- Traffic impacts
- Rehabilitation Management Plan
- Permits for access, construction and ongoing maintenance – request an agreement before work starts – what legislation will this work be done under?

Could council please confirm the above list to allow the Project to be aware that council's key concerns are understood?

From: David Milner
To: Alyce Harrington-JHG
Cc: Michael Robertson-JHG; Mira Segaran-JHG; CAHILL, CHERYL; Cameron Varricchio
Subject: RE: Upper South Creek (SSI 8906189) - CEMP & sub-plans
Date: Friday, 12 May 2023 9:27:15 AM
Attachments: image021.png
image022.png
image027.png
image028.png
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image034.png
image035.png
image036.png
image042.png
image043.png
image044.png
image045.png
image046.png
image047.png

Hi Alyce,

Just noticed Item 1 typo "This Floor" has not been fixed with the updated Flood Emergency Response CEMP Sub-plan. See snip below.
Items 2 and 3 Council identified have been addressed.

Flood Emergency Response CEMP Sub-plan

Upper South Creek Advanced Water Recycling Centre and Pipelines

2 INTRODUCTION

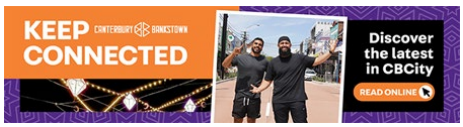
2.1 Context

This Floor Emergency Response CEMP Sub-plan (FERCSP) form
Environmental Management Plan (CEMP) for Upper South Creek
(AWRC) and Pipelines Project (refer to herein as the Project).

Regards

David Milner - Senior Infrastructure Services Officer
T 9707 9345
E David.Milner@cbcity.nsw.gov.au
www.cbcity.nsw.gov.au

@ourcbcity
Like & follow us



From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Thursday, 11 May 2023 9:06 PM
To: David Milner <David.Milner@cbcity.nsw.gov.au>
Cc: Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>; CAHILL, CHERYL <CHERYL.CAHILL@sydneywater.com.au>; Cameron Varricchio <CAMERON.VARRICCHIO@sydneywater.com.au>
Subject: RE: Upper South Creek (SSI 8906189) - CEMP & sub-plans

Good evening David,

Please see attached updated Flood Emergency Response CEMP Sub-plan for the Upper South Creek AWRC project and corresponding comment register for your information.

If you have any questions regarding this matter, please do not hesitate to contact me.

Kind Regards,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

Level 3, 65 Pirrama Road, Pyrmont NSW
M. +61 409 633 908
E. Alyce.Harrington@jhg.com.au

Make flexibility work – if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.

From: David Milner <David.Milner@cbcity.nsw.gov.au>
Sent: Wednesday, 29 March 2023 9:54 AM
To: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Cc: Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; Tim Ireland <Tim.IRELAND@cbcity.nsw.gov.au>; Paul Angel <Paul.ANGEL@cbcity.nsw.gov.au>; David Lowery <David.Lowery@cbcity.nsw.gov.au>; Asad Suman <Asad.Suman@cbcity.nsw.gov.au>; Cameron Crawford <Cameron.Crawford@cbcity.nsw.gov.au>
Subject: RE: Upper South Creek (SSI 8906189) - CEMP & sub-plans

Hi Alyce,

See below comments received at this time.
I have not yet received comments on the Heritage and Soils & Contamination CEMPs.
I have passed on details as to request that all comments are received by Tuesday 4 April 2023.

Flood Emergency Response CEMP Sub-plan:

Comments from our Urban Policy and Planning team

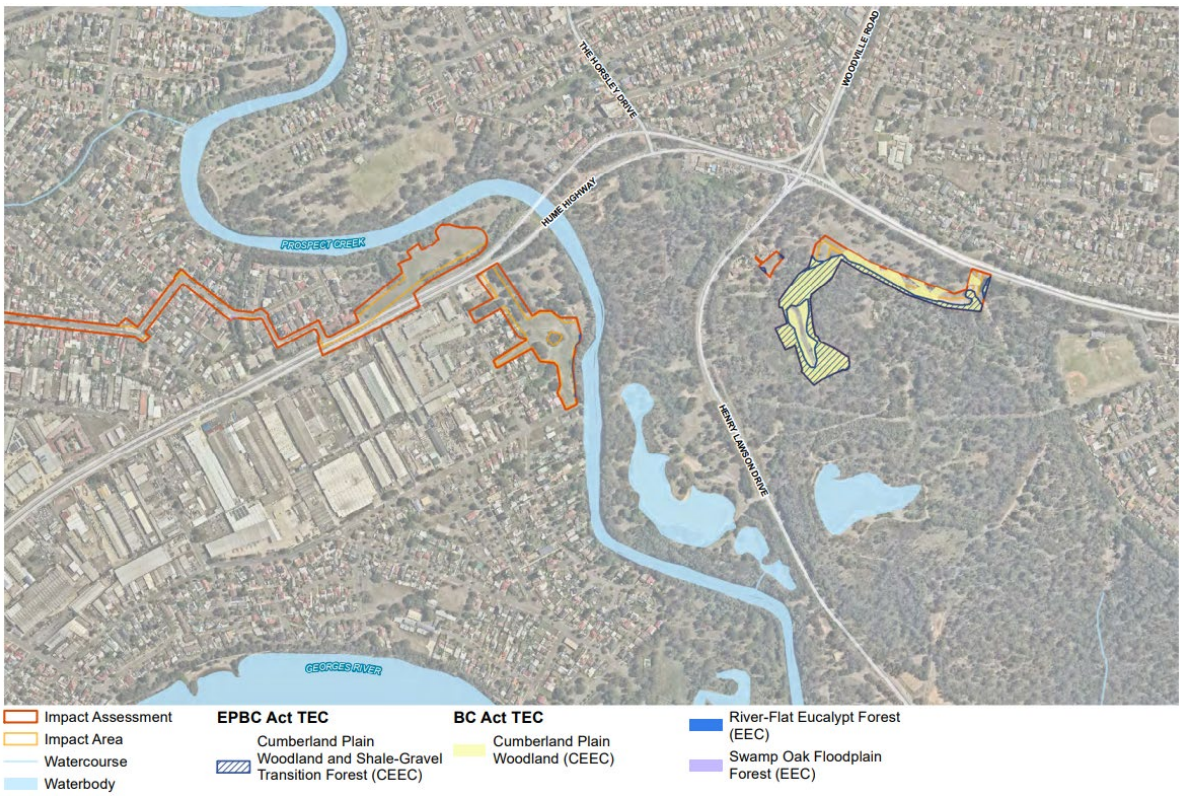
- Section 2.1 (context) reported as This Floor Emergency Response CEMP Sub-plan (FERCSP) should be amended as This Flood Emergency Response CEMP Sub-plan (FERCSP)
- Section 4 LEGISLATIVE AND GUIDANCE REQUIREMENTS reported Canterbury-Bankstown Council LGA, Georges River Floodplain Risk Management Study and Plan (Bewsher Consulting Pty Ltd, 2014) published year should be amended as 2004
- Hazard near me app (developed by the NSW Government) should be also be listed in Section 8.2

Biodiversity CEMP Sub-plan:

Comments from our Urban Policy and Planning team

The biodiversity CEMP covers issues relating to biodiversity impacts and mitigation quite comprehensively, however it does not specifically reference locations so I would like to confirm the following points:

- All vegetation impacted within Canterbury Bankstown, particularly that in Lansdowne Reserve will be regenerated or revegetated with Cumberland Plain Woodland as per CoA E20?
- All areas impacted can be revegetated and the new infrastructure will not result in areas remaining cleared following the development.
- Higher quality vegetation within the impact footprint, like that on the southern side of Tillett Parade will be prioritised for retention over lower quality vegetation like that on the northern side of Tillett Parade.
- No vegetation in the Biodiversity Stewardship Site will be impacted by the proposal.



Noise & Vibration CEMP Sub-plan:

Reviewed by our Environmental Health team and they advised they have no comment

Air Quality CEMP Sub-plan:

Reviewed by our Environmental Health team and they advised they have no comment

Regards

David Milner - Senior Infrastructure Services Officer
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www.cbcity.nsw.gov.au

CANTERBURY BANKSTOWN

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From: Alyce Harrington-JHG <Alyce.Harrington@jhg.com.au>
Sent: Tuesday, 28 March 2023 10:52 PM
To: David Milner <David.Milner@cbcity.nsw.gov.au>
Cc: Michael Robertson-JHG <Michael.Robertson@jhg.com.au>; Rama Sapkota-JHG <Rama.Sapkota@jhg.com.au>; Darragh O'Brien-JHG <Darragh.O'Brien@jhg.com.au>; Mira Segaran-JHG <Mira.Segaran@jhg.com.au>; Aidan O'Driscoll-JHG <Aidan.O'Driscoll@jhg.com.au>; Tim Ireland <Tim.IRELAND@cbcity.nsw.gov.au>; Paul Angel <Paul.ANGEL@cbcity.nsw.gov.au>; David Lowery <David.Lowery@cbcity.nsw.gov.au>; Asad Suman <Asad.Suman@cbcity.nsw.gov.au>
Subject: Upper South Creek (SSI 8906189) - CEMP & sub-plans

Good evening David,

Recently, Canterbury-Bankstown City Council has kindly participated in a stakeholder engagement meeting with John Holland in anticipation of the commencement of construction work within the relevant council area.

During the meeting, we made reference to the CEMP and associated sub-plans and that John Holland would re-issue the plans that had been issued in the lead up to the meeting to ensure they have reached the appropriate audience and subject matter experts within CBCC. The documents are as follows:

- Air Quality CEMP Sub-plan (AQCSP)
- Flood Emergency Response CEMP Sub-plan (FERCSP)
- Heritage CEMP Sub-plan (HCSP)
- Biodiversity CEMP Sub-plan (BCSP)
- Noise & Vibration CEMP Sub-plan (NVCSP)
- Soils & Contamination CEMP Sub-plan (SCCSP)

Progressive submission of these documents commenced on Wednesday 01 March and it would be greatly appreciated if all comments regarding the submissions provided to date are returned by close of business Tuesday 4 April 2023.

Please note that the final CEMP sub-plan (surface water and groundwater) is scheduled to be issued for CBCC review and comment by the end of this week.

If you have any further questions, please do not hesitate to contact me.

Thank you,

Alyce Harrington
Planning, Environment & Approvals Director
Upper South Creek

JOHN HOLLAND

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M. +61 409 633 908
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Appendix 8 – Consultation Summary Register

Upper South Creek - Consultation Register - Flood Emergency Response

Document	**Consultation Register**
Date Issued	**02/03/2023**
Docu	**USCP-JHG-MPL-ENV-0004**
Date Due	

Reviewer Name 1	SES (Elspeth O'Shannessy), EHG (Susan Harrison), CBCC (David Milner), Liverpool (Jerard Tungcab)
Reviewer Name 2	
Reviewer Name 3	

Relevant Agencies				**Upper South Creek - John Holland**	
Item	**Relevant Agency**	**Requirement**	**Comments**	**Response Comments**	**By**
1	SES	Development should not result in an increase in risk to life, health or property of people living on the floodplain.	It is noted that the sections of the proposed work sites are prone to flooding in a 20% AEP event, with depths of up to 2m in a Probable Maximum Flood (PMF)12. The flood maps provided as part of the FERS only show the 1% AEP, and only for the proposed Advanced Water Recycling Centre.	It is noted that the previous Table 6-1 (Existing flood conditions) identified the broader catchment conditions, not the existing flood conditions at the exact location of the proposed works. For example, the location of the USC AWRC site is at a topographically high location above the modelled 1% AEP flood level. The previous reference with depths of up to 2m in a Probable Maximum Flood (PMF) was in relation to the broader South Creek catchment (not the location of the proposed works). Flood mapping has been updated consistent with the flood extent mapping from the Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022). This includes the 5% AEP, 1% AEP and PMF events. It is noted that 20% AEP flood event mapping is not available as part of this document, however it is considered that that the 5% AEP is appropriate.	Alyce Harrington
2	SES	Risk assessment should consider the full range of flooding, including events up to the Probable Maximum Flood (PMF) and not focus only on the 1% AEP flood.	We would like to seek a copy of the Flood Impact Assessment referred to within the CEMP.	The Flood Impact Assessment can be found at the following web-links: • EIS Appendix L Flood Impact Assessment (Part 1) • EIS Appendix L Flood Impact Assessment (Part 2) • RTS Appendix C Addendum to Flood Assessment • Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 - Flooding	Alyce Harrington
			The proposed Advanced Water Recycling Centre also relies on a route which crosses over Kemps Creek. The FERS should be updated to include the height of the bridge and the depth at which this route becomes flooded, and therefore when evacuation is required to be complete by.	Peak flood levels, as per the Wianamatta South Creek Catchment Flood Study (Advisian 2022) have been included in Table 6-1 of the EIS. This includes the peak flood levels for Kemps Creek (upstream of Elizabeth Drive). Please note that John Holland has reached out to TfNSW requesting this information and will incorporate the information into relevant sections of the FERCSP once received.	Alyce Harrington

			The flood information provided also appears to focus only on riverine flooding. It is recommended that overland flooding is considered with respect to local roads.	Overland flows/flooding from adjacent rivers/creeks during extreme rainfall events is considered the primary risk. Nuisance flooding as a result of localised overland flow paths could make the worksites un-trafficable or dangerous to workers. Blockages, or high rainfall events have potential to exceed the capacity of the local pit and pipe networks. In these instances it is possible that overland flow paths may be formed with high velocities and little warning. Erosion and sediment control plans would be prepared in accordance with the Surface Water & Groundwater CEMP Sub-plan (SWGCSP) to direct site water to construction sediment basins, divert clean water around the site and for works on waterfront land to minimise the potential for soil and erosion impacts. This has been added to Section 7 and additional mitigation in Section 8.	Alyce Harrington
			Parts of the proposed Advanced Water Recycling Centre would have a hazard classification of H6 during a 1% AEP event, which is the highest hazard classification and is not safe for people, vehicles, or buildings. It is also noted that the adjacent roads to the sites may be cut by floodwaters with the sites becoming isolated well before the 1% AEP flood event. The local and regional road network is also prone to local and riverine flooding and would require persons onsite to have adequate time to self-evacuate prior to the roads becoming flooded. Evacuation must not require people to drive or walk through flood water.	An additional call out box has been included in Section 8.2 which states that: “Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff.” Closing the sites prior to the potential impact of flooding will be the main management measure to minimise the risks to staff working at USC AWRC.	Alyce Harrington
			The local and regional road network is also prone to local and riverine flooding and would require persons onsite to have adequate time to self-evacuate prior to the roads becoming flooded. Evacuation must not require people to drive or walk through flood water. Therefore ideally the sites would be closed prior to the impact of flooding.	Added in an additional call out box in Section 8.2 which states that “Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff.”	Alyce Harrington
3	SES	Risk assessment should have regard to flood warning and evacuation demand on existing and future access/egress routes.	Consideration should also be given to the impacts of localised flooding on evacuation routes. There are no formal warning systems for South Creek or Kemps Creek, therefore there will be little to no warning time and no formal warnings. The Bureau of Meteorology do provide Severe Weather Warnings and Detailed Severe Thunderstorm Warnings which can provide an indication of heavy rainfall that may lead to flash flooding.	Section 8.1 does include the requirement for “Daily monitoring of weather forecasts and flood alerts, using the BoM” This bullet has been updated as follows to specifically include the lack of alerts for South and Kemps Creek: "Daily monitoring of severe Weather Warnings and Detailed Severe Thunderstorm Warnings, weather forecasts and flood alerts, using the BoM. There are no formal warning systems for South Creek or Kemps Creek, BoM alerts should be used to provide an indication of heavy rainfall that may lead to flash flooding".	Alyce Harrington

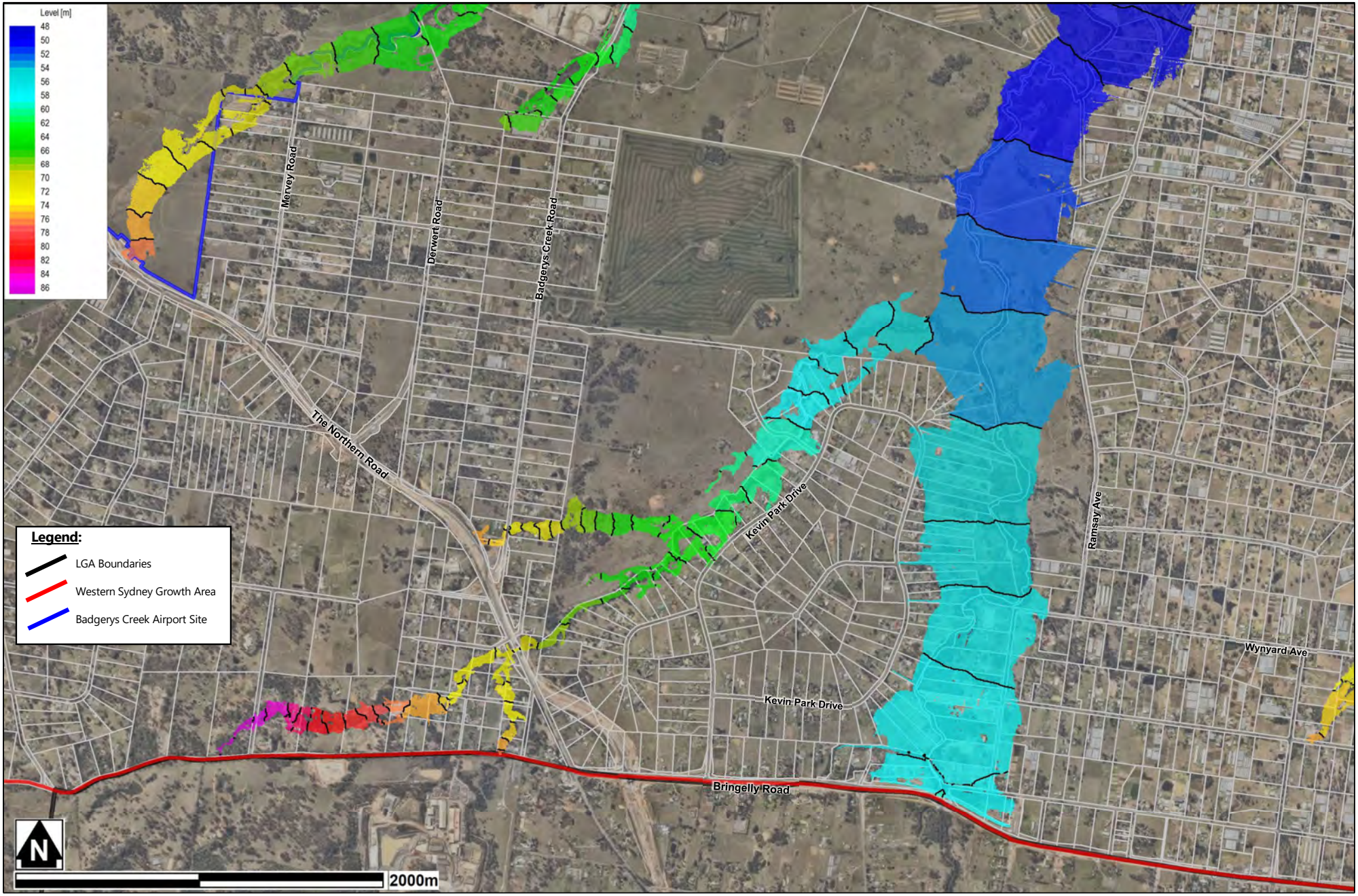
4	SES	Development strategies relying on deliberate isolation or sheltering in buildings surrounded by flood water are not equivalent, in risk management terms, to evacuation.	Although evacuation is the primary strategy as mentioned in section 8 of the FERP, we recommend this should be reworded to clarify that the primary strategy is ensuring early closure of the sites, for instance based on a severe weather warning for flash flooding or as there is no flood warning system and there is likely to be rapid rises, on the first sign of flooding. More information on local overland flooding and flash flood hotspots may be required to adequately assess risk for the sites.	As mentioned above, an additional call out box in Section 8.2 has been added which states that: “Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff.” Additionally, in accordance with mitigation measure FER01, a flood impact assessment will be undertaken quantify the flood risk and flood impact of temporary works.	Alyce Harrington
5	SES	Development strategies relying on an assumption that mass rescue may be possible where evacuation either fails or is not implemented are not acceptable to the NSW SES.	In summary, the preferred emergency strategy for the sites is early closure prior to the commencement of flooding and before the start of the working day.	Noted. The assumption that mass rescue is possible is not a governing principal. The mitigation measures identify the key stage of flood management including general measures (FER01 to FER06), monitoring and pre-flood measures (FER07 to FER10), evacuation measures (FER11 to FER15) and post flooding measures (FER16 to FER 19). In addition, as mentioned above, an additional call out box in Section 8.2 has been added which states that: “Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff.” This aims to minimise the need for mass rescue.	Alyce Harrington
6	EHG	The consultant preparing the Flood Emergency Response CEMP Sub-plan must be provided with the latest amended flood assessment results as provided to EHG in July 2022.		Noted. The Flood Emergency Response CEMP Sub-plan (FERCSP) has been reviewed and updated (where necessary) with regard to the document ‘Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding’, dated 11 July 2022 (https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=RFI-44447594%2120220711T080448.671%20GMT)	Alyce Harrington
7	EHG	EHG notes that, the Flood Emergency Response CEMP Sub-plan is based on the Flood Impact		The FERCSP has been reviewed and updated including, but not limited	Alyce Harrington
8	EHG	As indicated above, EHG raises significant concerns as it appears that the consultant preparing the Flood Emergency Response CEMP Sub-plan is not aware of the flood remodelling undertaken by the proponent in July 2022 on the request of DPE Planning and EHG to ensure the flood assessment is compatible with the Wianamatta South Creek Flood Study – Existing Condition (Rev I).		Reference to the Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022) (Advisian, May 2022) has been included in Section 4 – Legislative and Guidance Requirements. The peak flood levels and flood mapping from this report for design events are listed in Table 6-1 for a range of locations and flood extents provided in Appendix B.	Alyce Harrington
9	EHG	The re-modelled flood results have been provided to EHG and DPE Planning in a brief report titled The Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 - Flooding 11 July 2022. The consultant must be provided with this report and the re- modelled flood results and utilise this information to prepare the Flood Emergency Response CEMP Sub-plan.		Noted. The FERCSP has been reviewed and updated (where necessary) with regard to the document ‘Upper South Creek Advanced Water Recycling Centre – Response to Request for Information 44447594 – Flooding’, dated 11 July 2022 (https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=RFI-44447594%2120220711T080448.671%20GMT)	Alyce Harrington

10	EHG	The consultant can download the Wianamatta South Creek Flood Study – Existing Condition (Rev I) from the NSW Flood Data Portal Wianamatta South Creek Catchment Flood Study - Existing Conditions (Rev I) - Flood Projects - NSW Flood Data Portal.	Noted. The document has been downloaded and the FERCSP has been updated. The peak flood levels for design events for a range of locations are listed in Table 6-1 and flood map extents included for a range of design storm events in Appendix B.	Alyce Harrington
11	EHG	Similarly, the flood management measures identified in Table 8-1 including the flood impact assessment must be based on the re-modelled flood assessment as presented in the 'Response to Request for Information' report July 2022.	Noted in accordance with mitigation measure FER01, a flood impact assessment will be undertaken to quantify the flood risk and flood impact of temporary works and/or operations during the construction phase. This will consider the documents identified within the FERSCP, including the re-modelled flood assessment as presented in the 'Response to Request for Information' report July 2022. The remaining management measures identified in Table 8-1 have been reviewed and are applicable. Management measures have been informed by the updated modelling assessments (i.e. flood extents), updated management measures (UMM) within Appendix B of the Submissions Report, Minister's Conditions of Approval (MCOA) and best practice.	Alyce Harrington
12	EHG	Section 7.2 describes the potential impact on the construction compounds and its significance. The section should provide maps for the location of these compounds (C1 - C15) and the	Figure 7-1 has been included to show the indicative location of these compounds and water crossings.	Alyce Harrington
13	Canterbury Bankstown	Section 2.1 (context) reported as This Floor Emergency Response CEMP Sub-plan (FERCSP) should be amended as This Flood Emergency Response CEMP Sub-plan	Section 2.1 has been updated	Alyce Harrington
14	Canterbury Bankstown	Section 4 LEGISLATIVE AND GUIDANCE REQUIREMENTS reported Canterbury-Bankstown Council LGA, Georges River Floodplain Risk Management Study and Plan	Reference has been updated	Alyce Harrington
15	Canterbury Bankstown	Hazard near me app (developed by the NSW Government) should be also be listed in Section 8.2	Reference to the app has been added	Alyce Harrington
16	Liverpool	It is noted that Elizabeth Drive is the only evacuation route to the subject site. As the section of Elizabeth Drive between Clifton Avenue and Mamre Road is located within high-risk flood zone. Early evacuation or warning should be provided prior to and during major flooding events. Consultation is required with TfNSW M12 Motorway project whether any new flood emergency route will be available via the M12 Motorway in future.	Noted. Additional information included in Section 8.2 of the revised FERCSP which states that: "Evacuation must not require people to drive or walk through flood water. If there is risk that localised heavy rainfall is likely to result in a flood event at the sites, all sites will be closed prior to the impact of flooding to ensure the safety of all site staff." Closing the sites prior to the potential impact of flooding will be the main management measure to minimise the risks to staff working at USC AWRC. This requirement is included in Section 8.1 of the FERCSP which states the project's pre-flood actions to be taken.	Alyce Harrington

Appendix B Flood Mapping

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.1



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311015-00033 – Wianamatta South Creek Catchment FS
fg311015-00033_R2 Figures and Appendices (Rev I).pptx

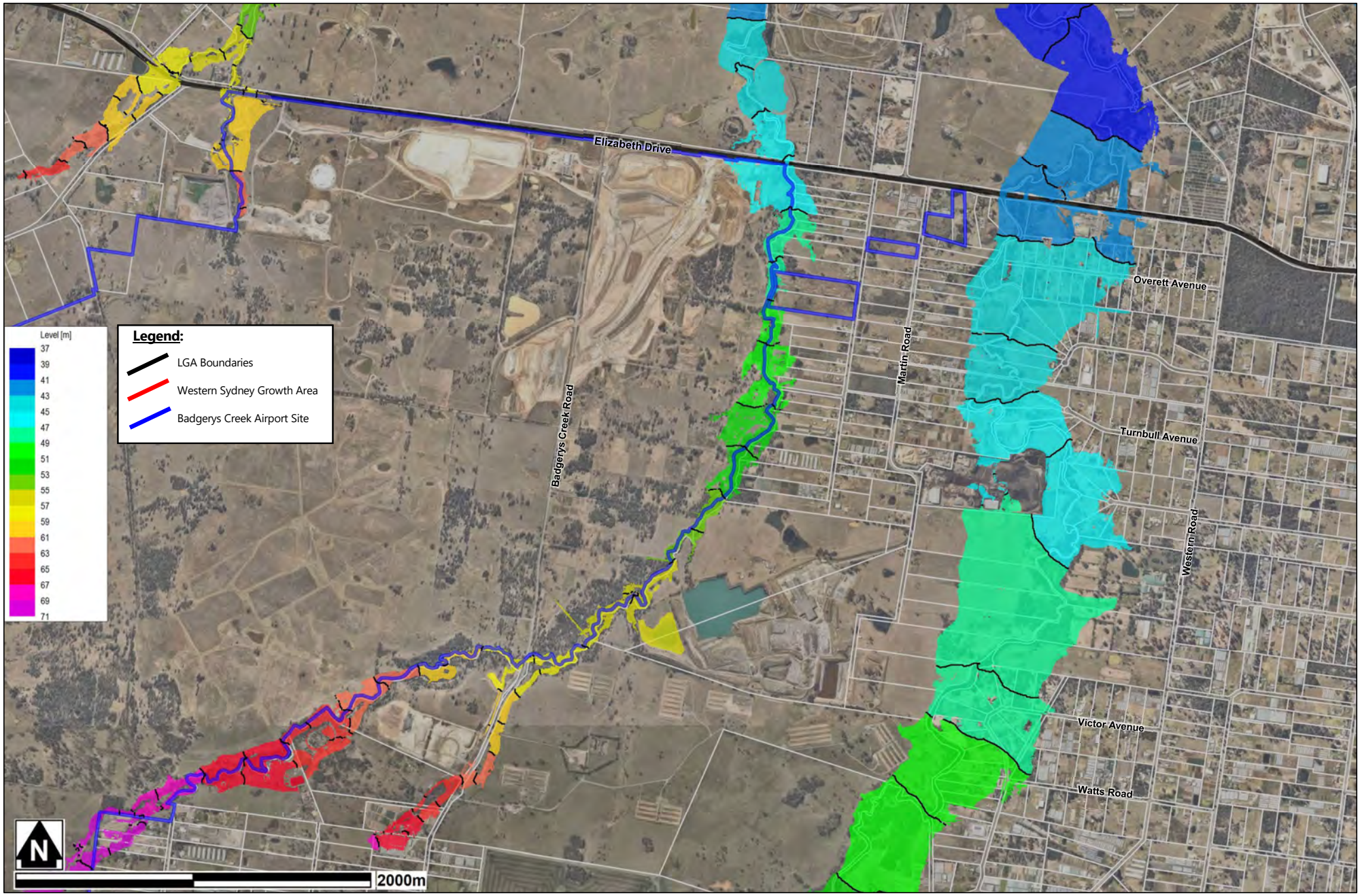
Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 1 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.2



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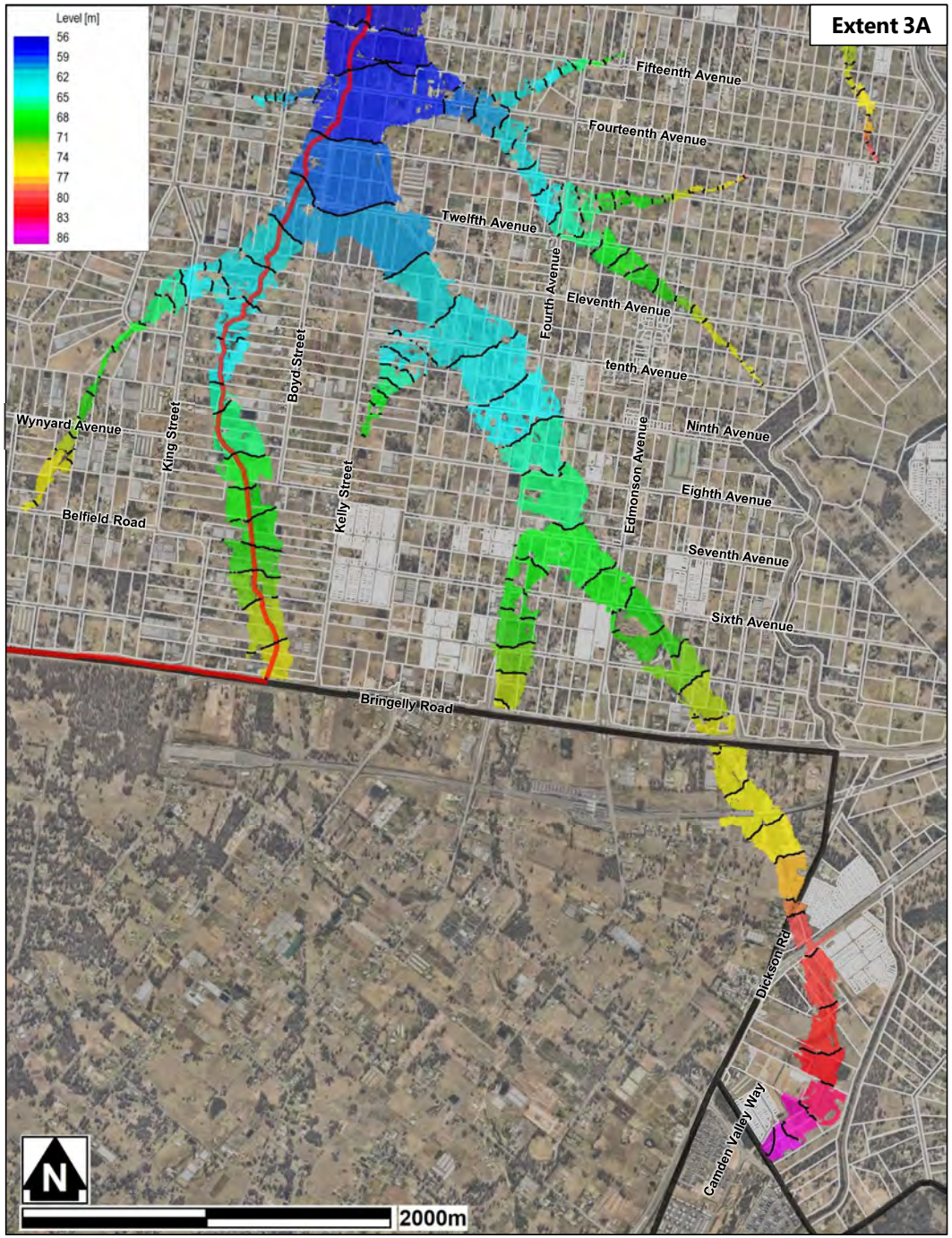
Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 2 of 8]

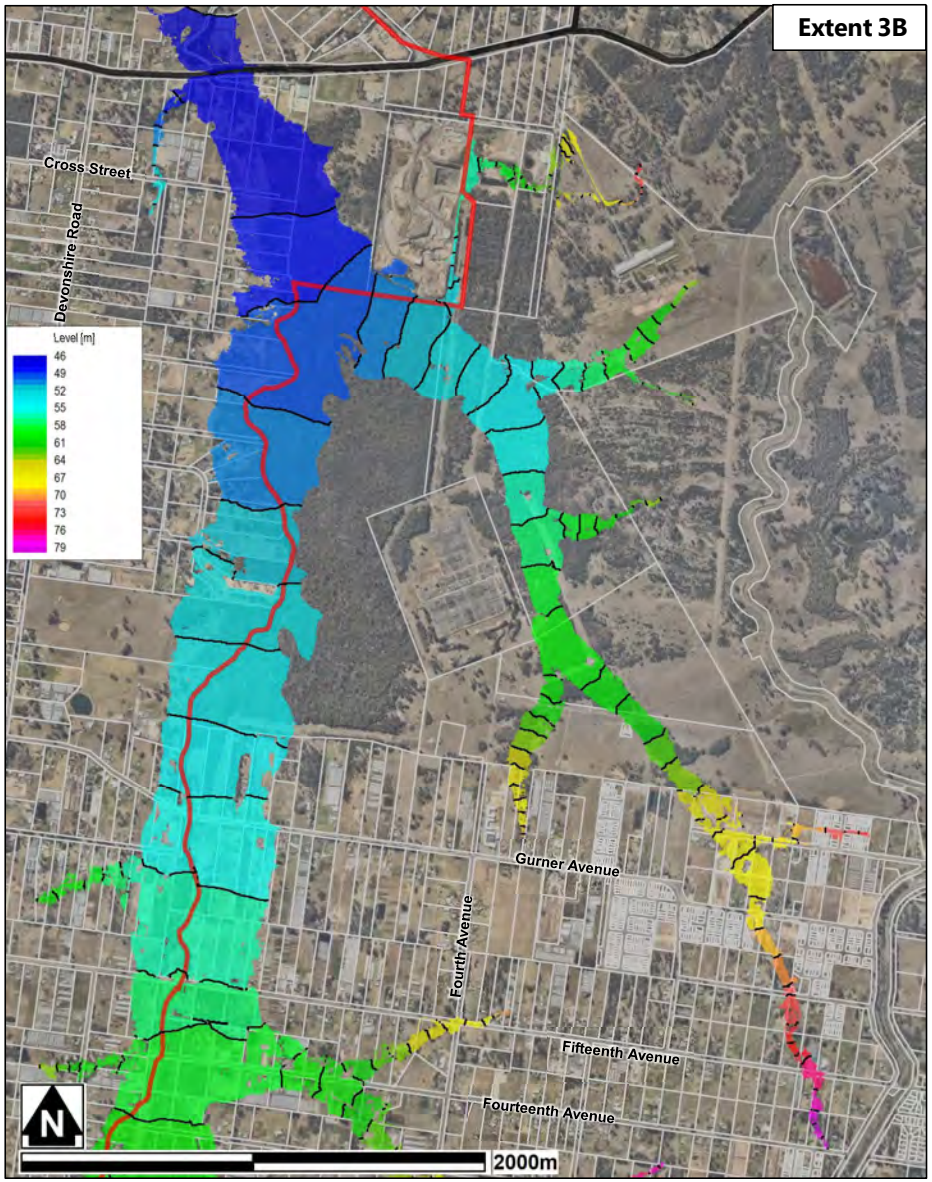


Legend:

- LGA Boundaries
- Western Sydney Growth Area
- Badgerys Creek Airport Site

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.3



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fg311015-00033_R2 Figures and Appendices (Rev I).pptx

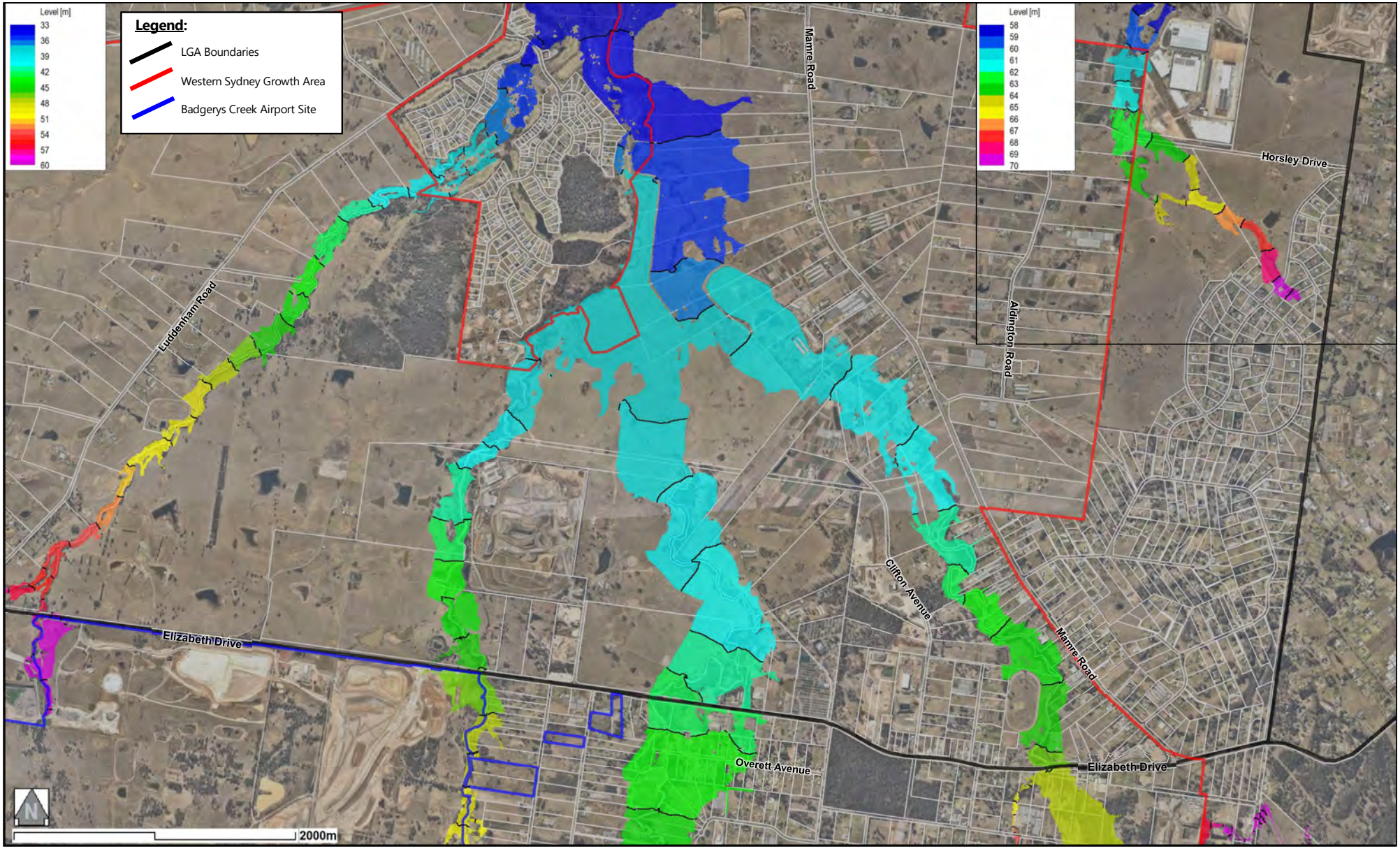
Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 3 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.4



Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

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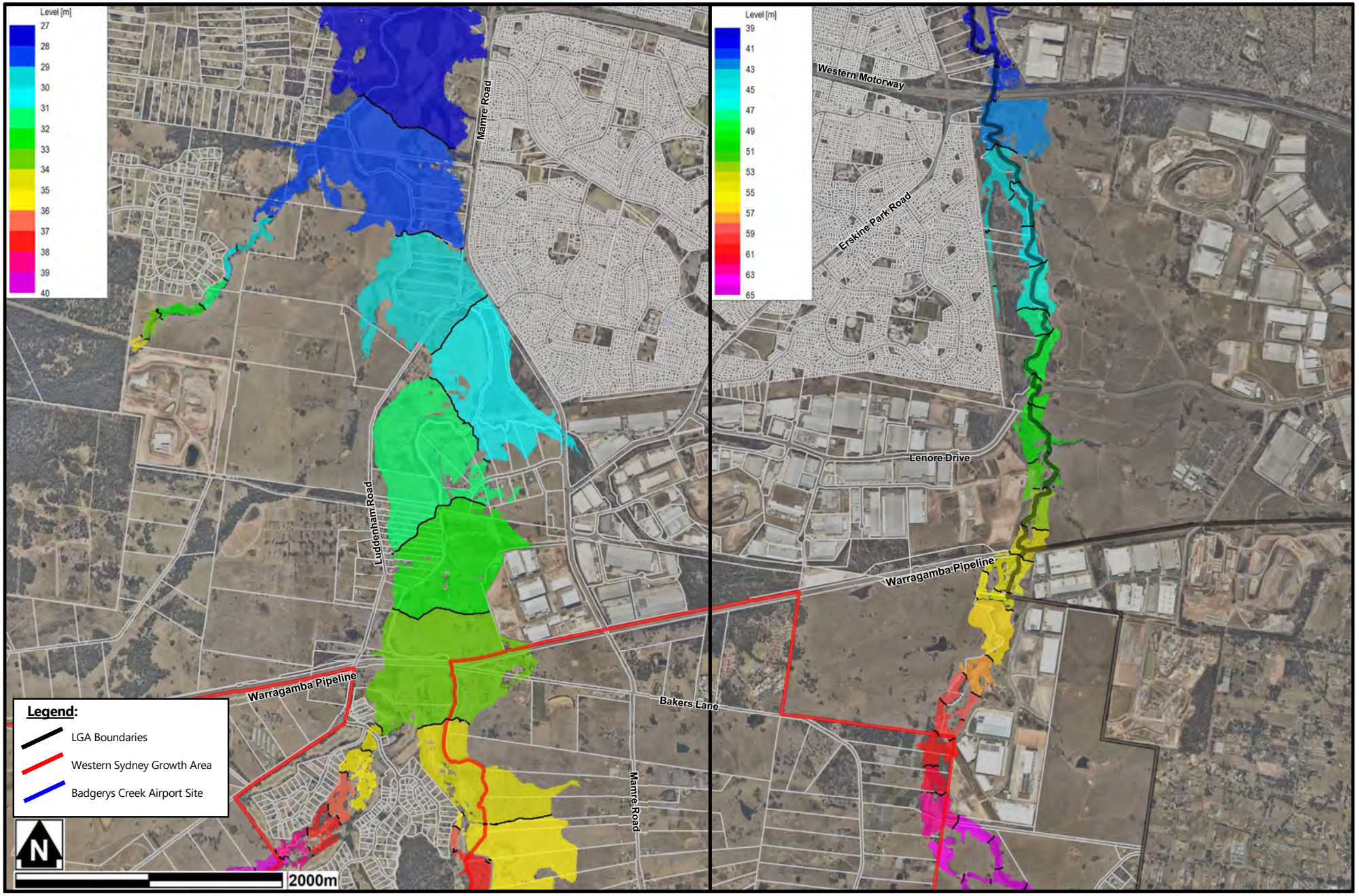
PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 4 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.5



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fg311015-00033_R2 Figures and Appendices (Rev I).pptx

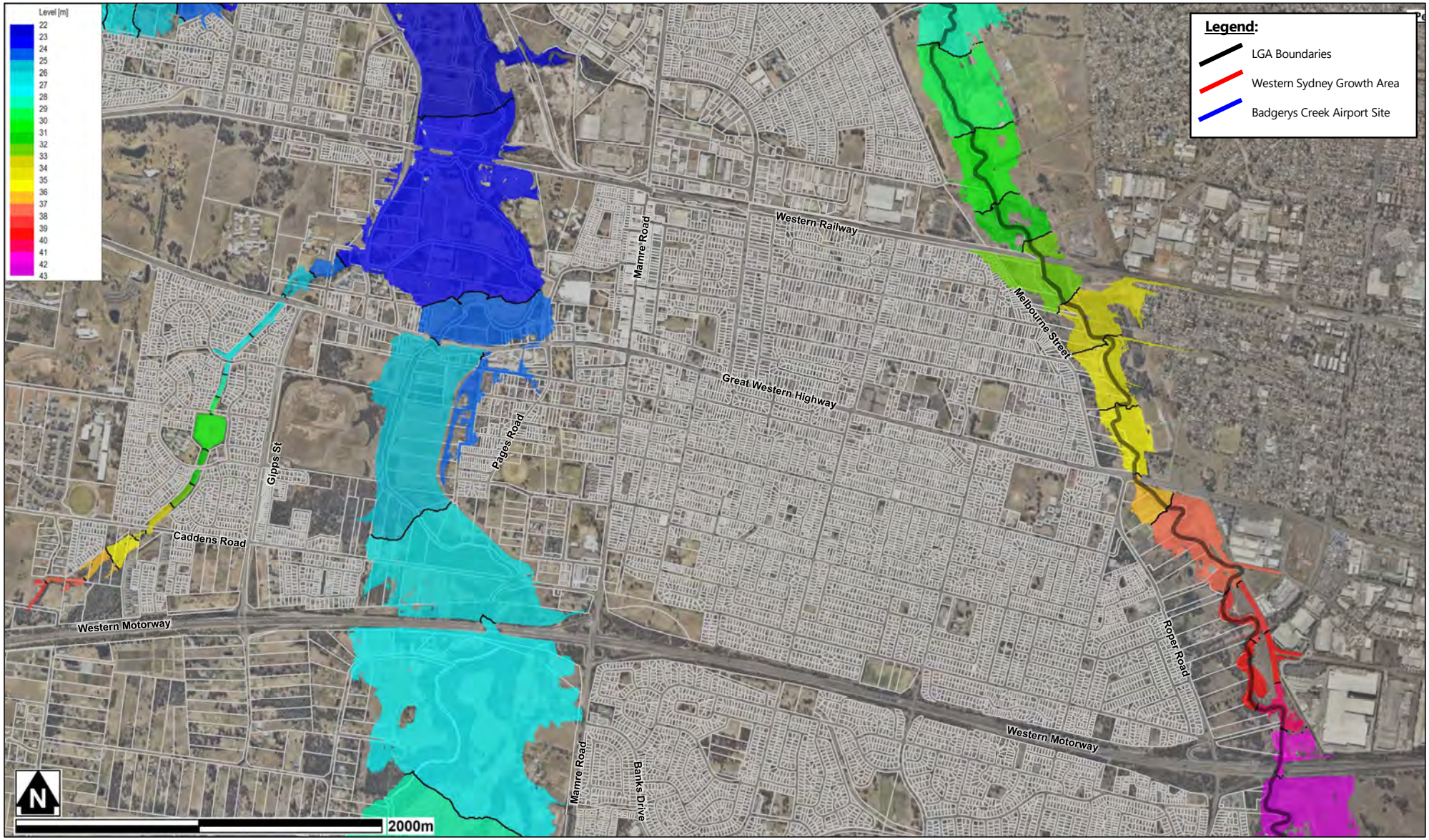
Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 5 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.6



Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

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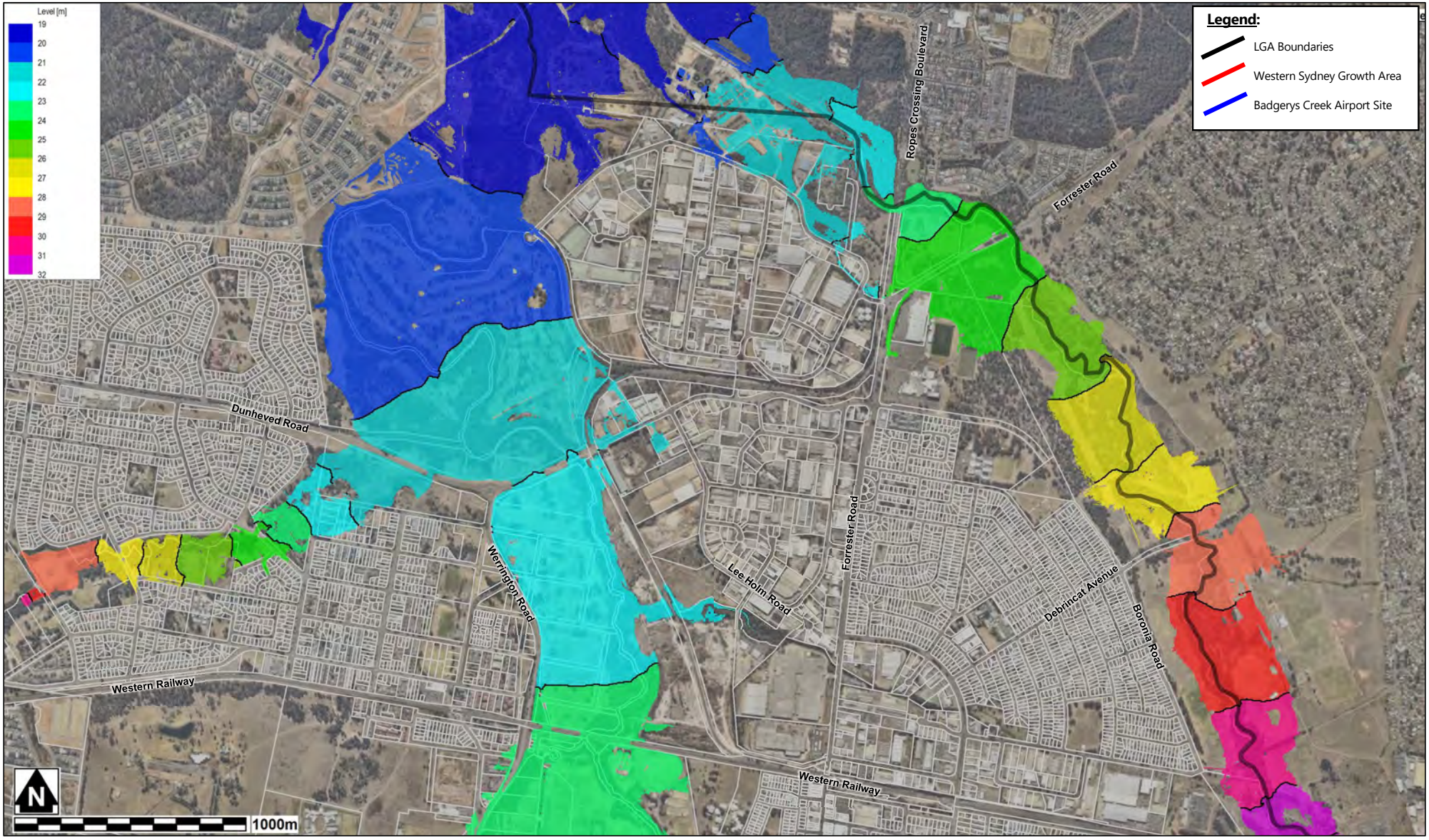
PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 6 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.7



Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

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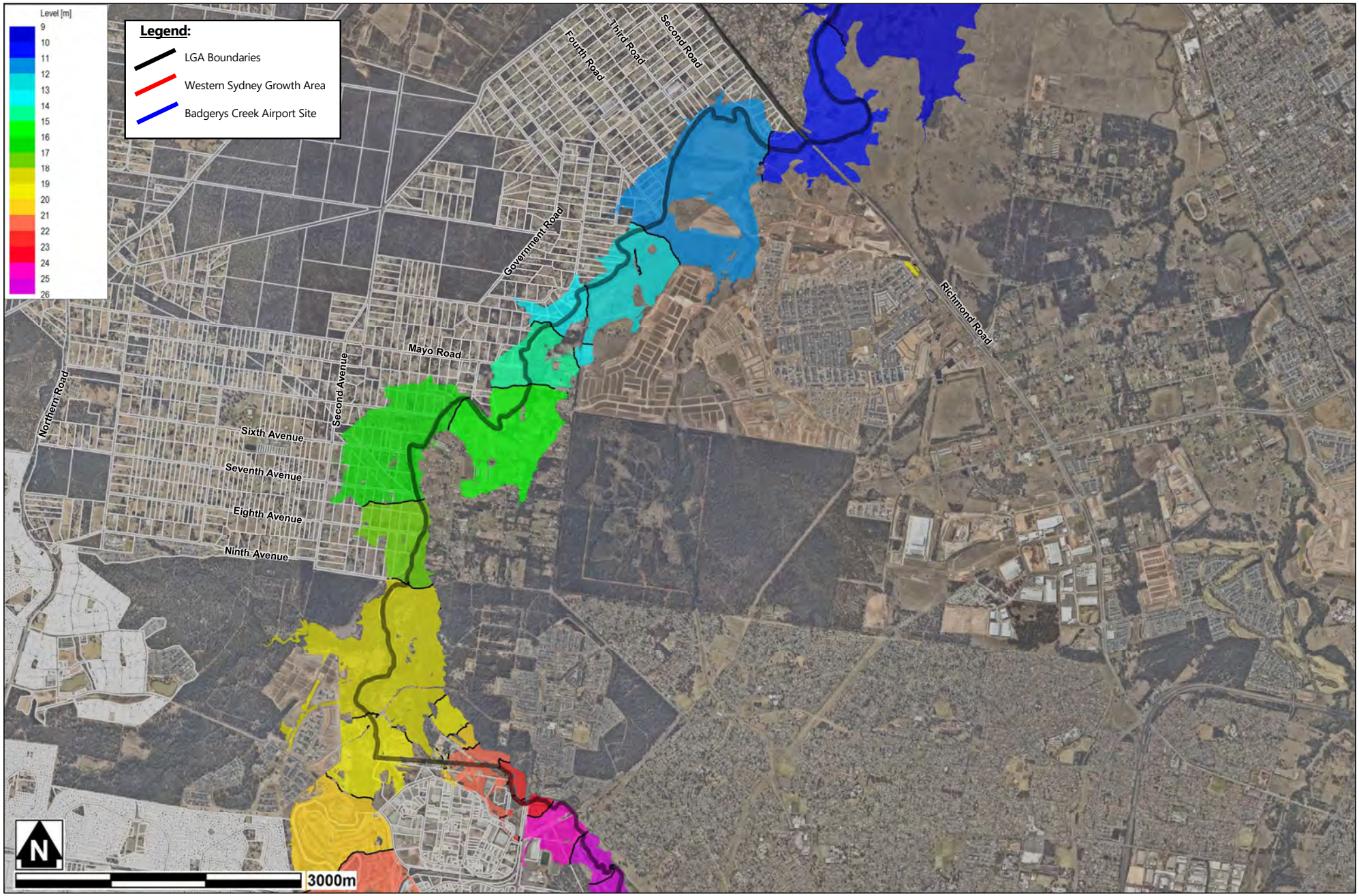
PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 7 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.8



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fg311015-00033_R2 Figures and Appendices (Rev I).pptx

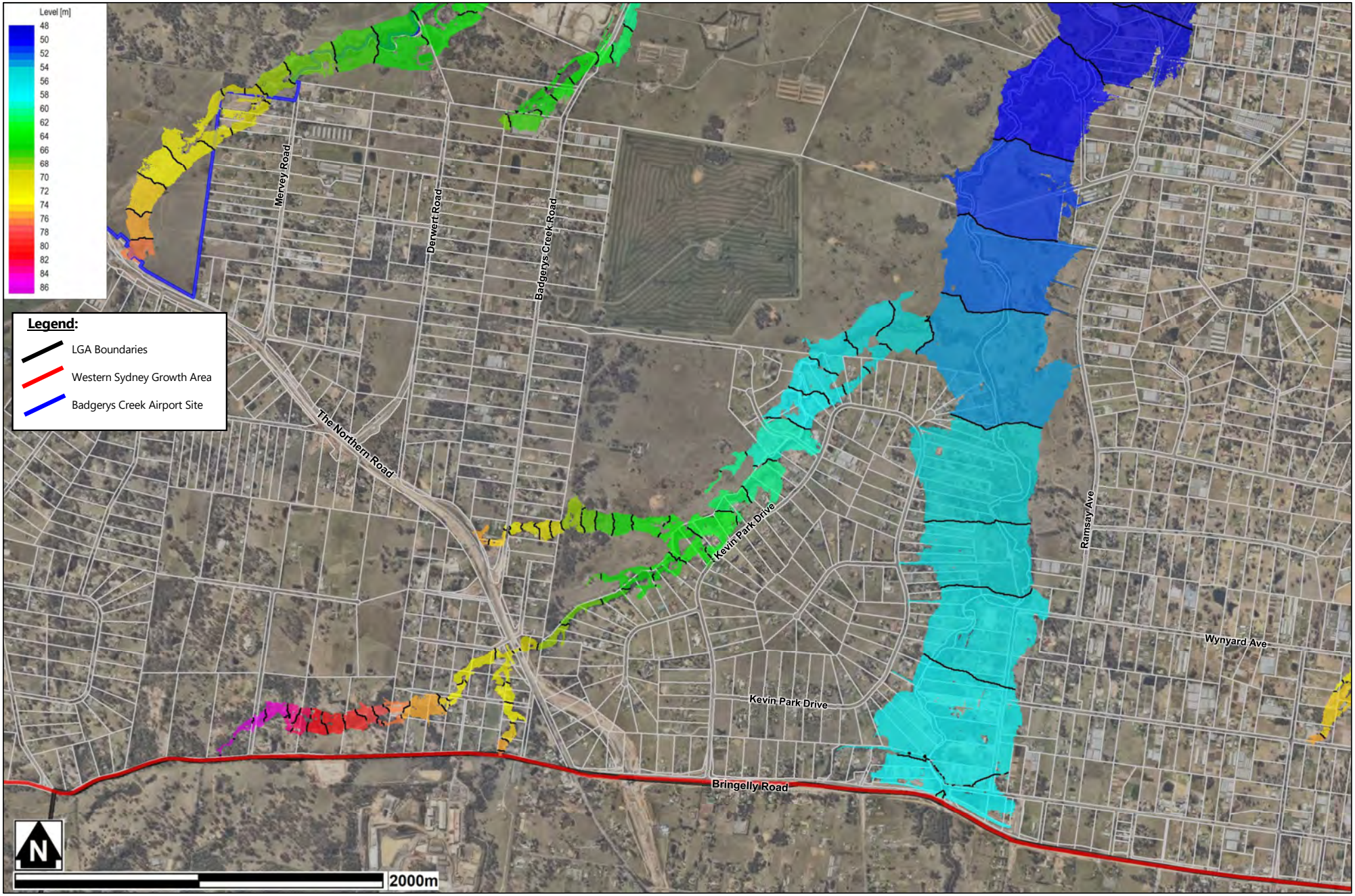
Note:

Peak 5% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 5% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 5% AEP FLOOD
[BASE CASE - EXTENT 8 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.9



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fg311015-00033_R2 Figures and Appendices (Rev I).pptx

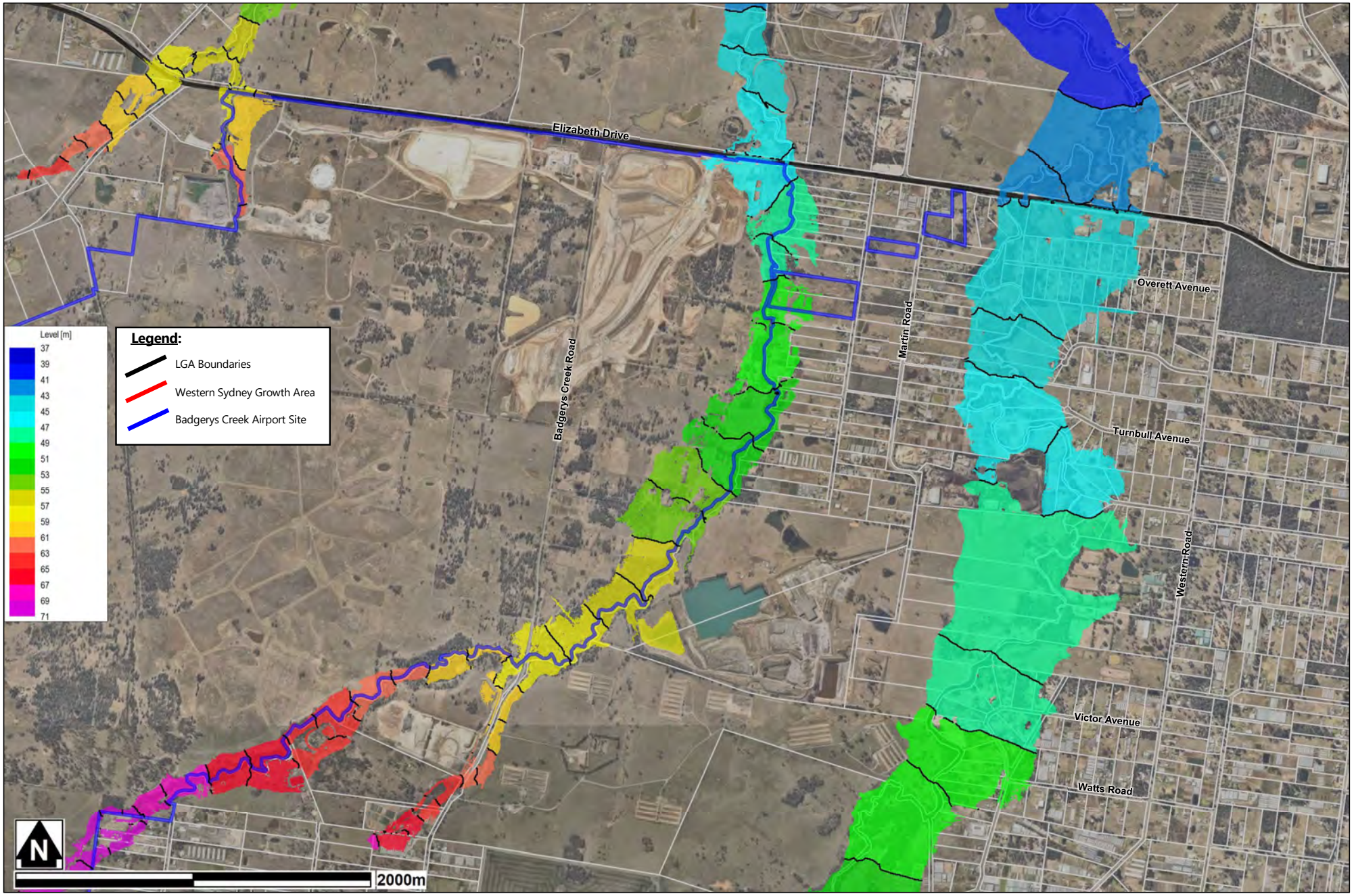
Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 1 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.10



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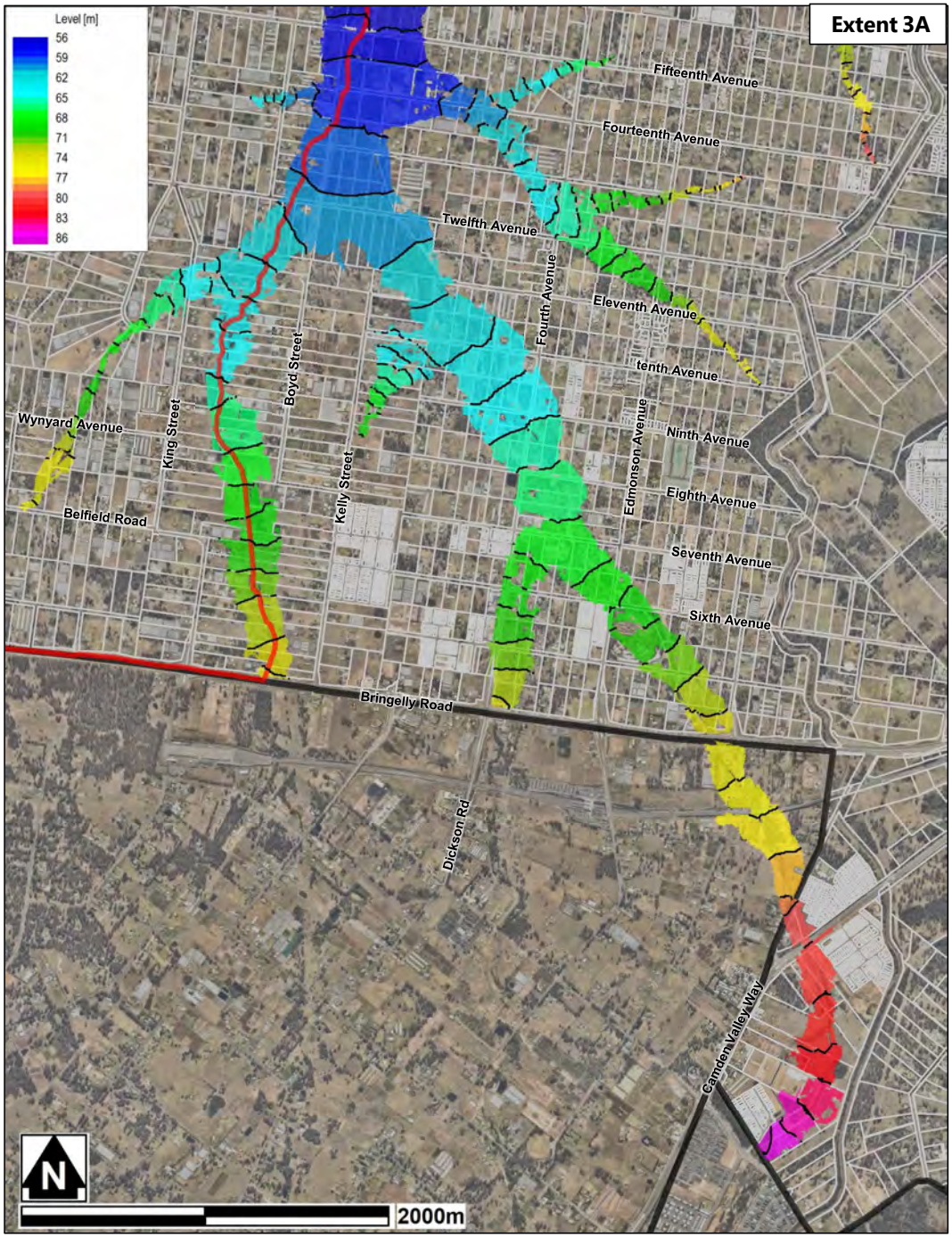
Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 2 of 8]

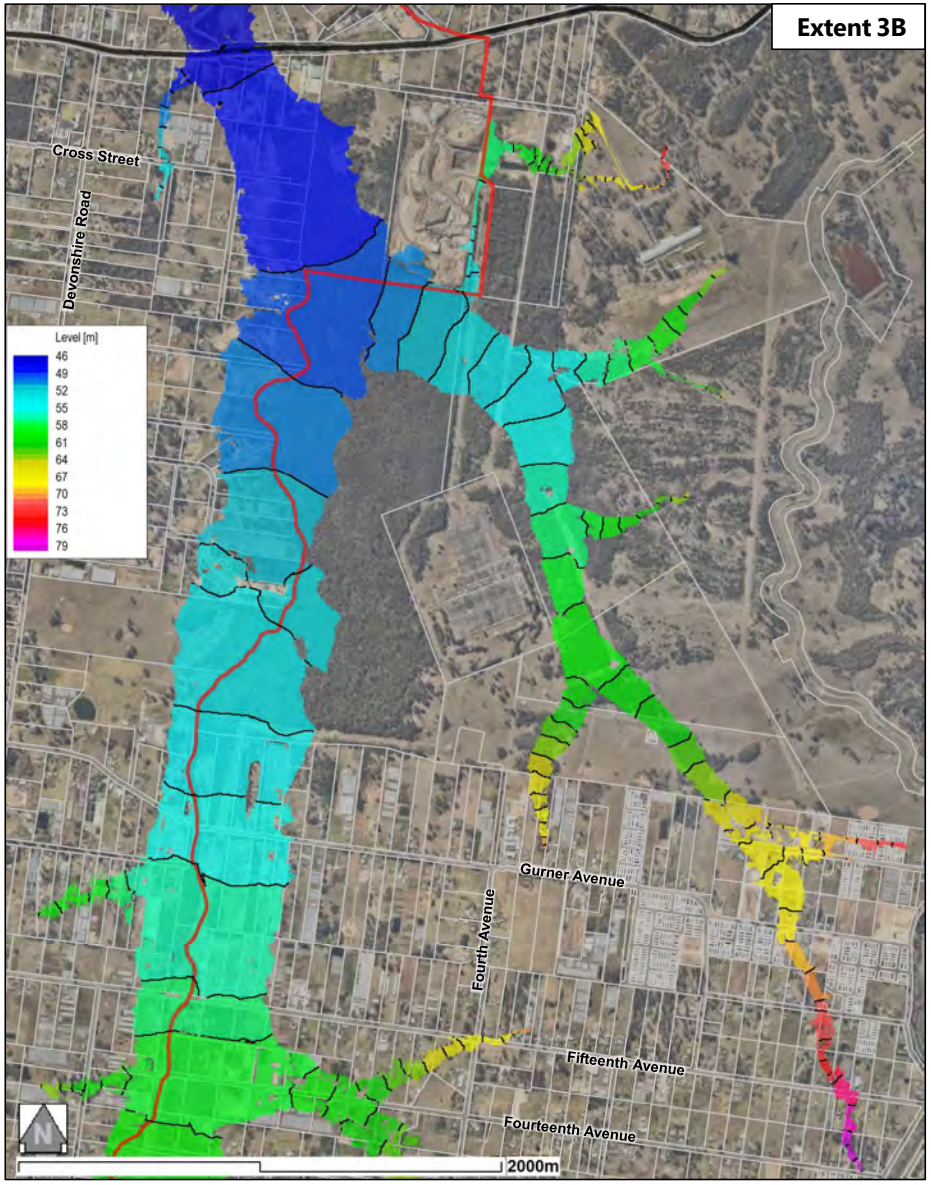


Legend:

- LGA Boundaries
- Western Sydney Growth Area
- Badgerys Creek Airport Site

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.11



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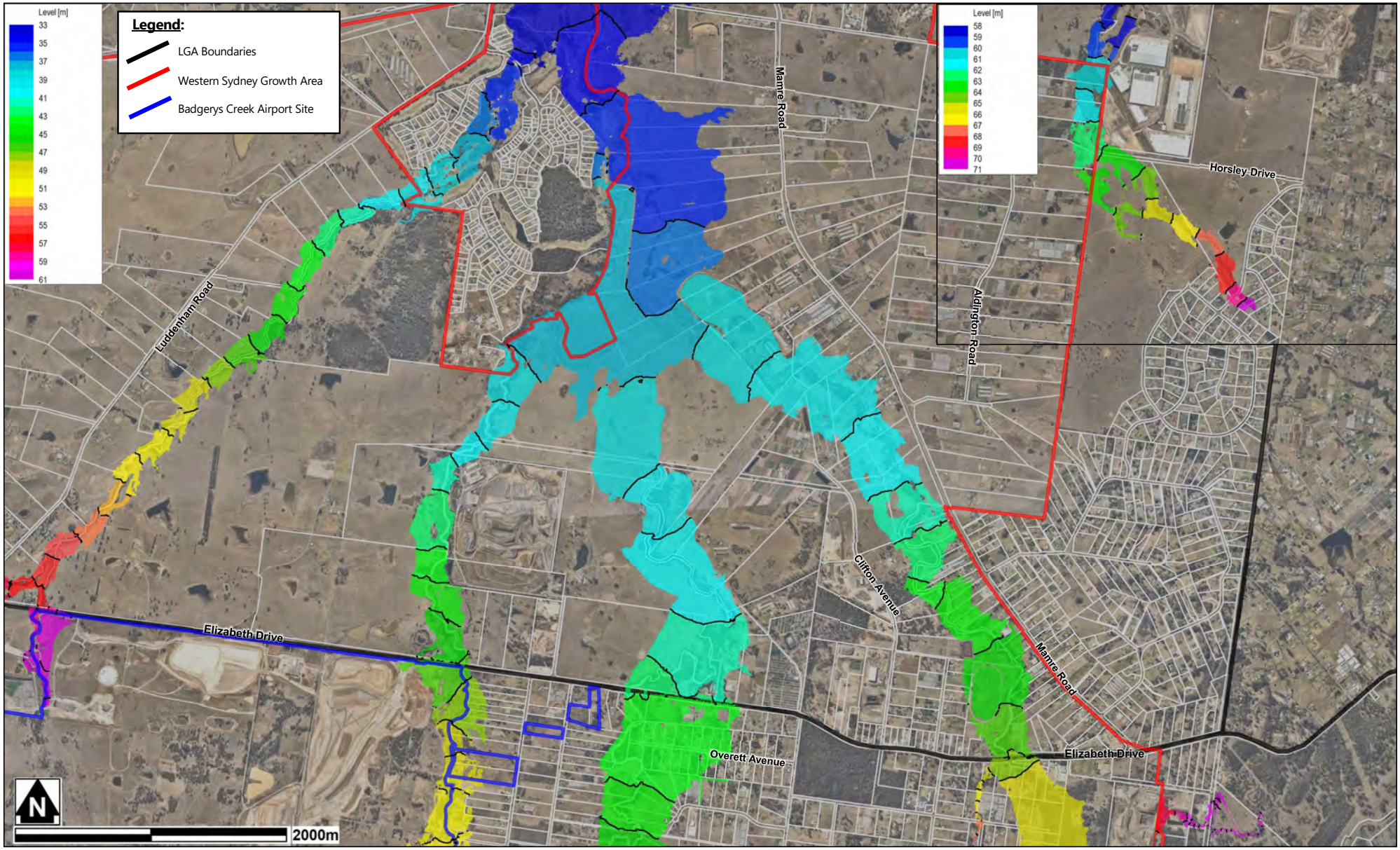
Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 3 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.12



Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

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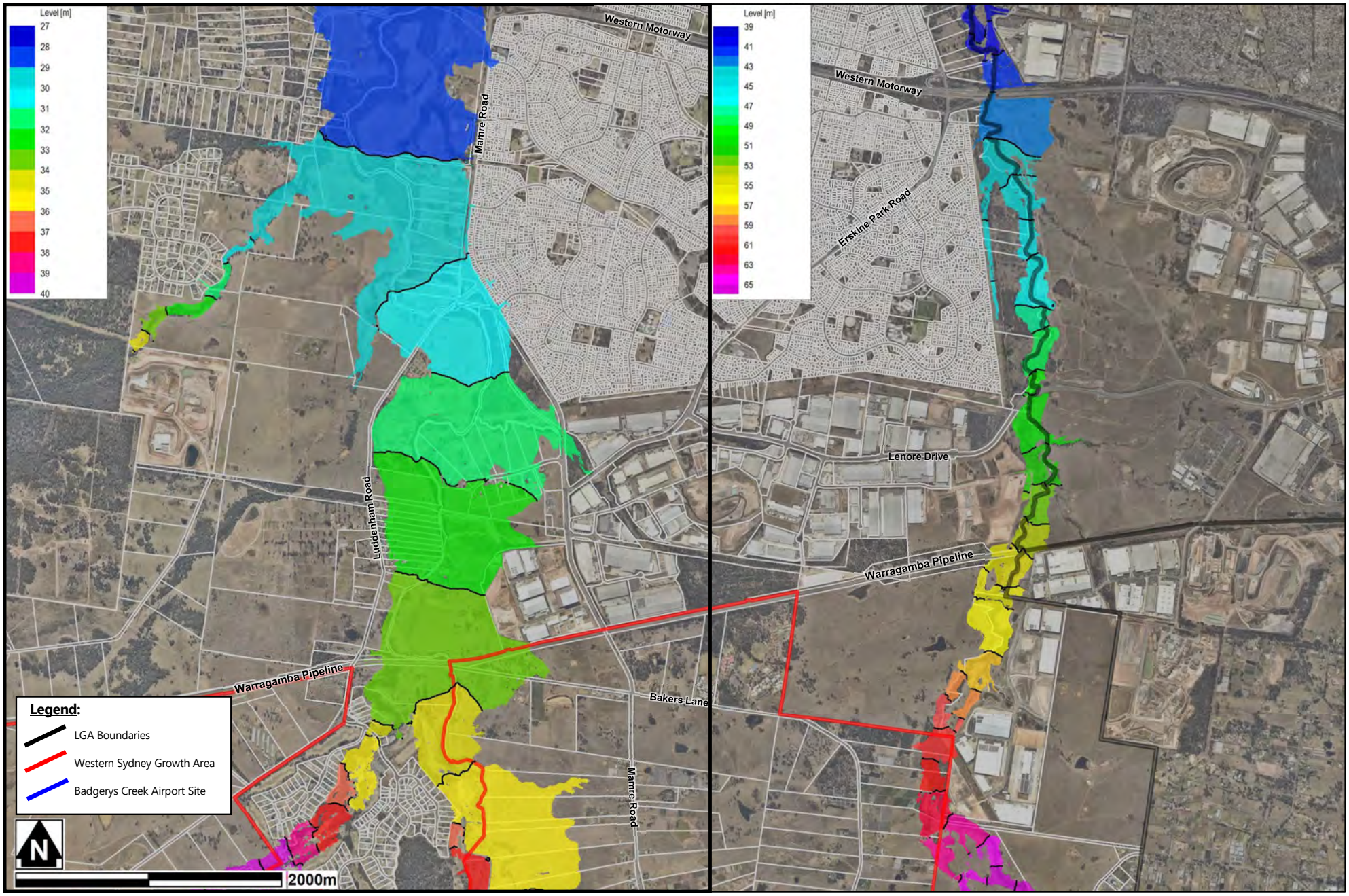
PREDICTED FLOOD LEVELS AT THE PEAK OF 1% AEP FLOOD
[BASE CASE - EXTENT 4 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.13



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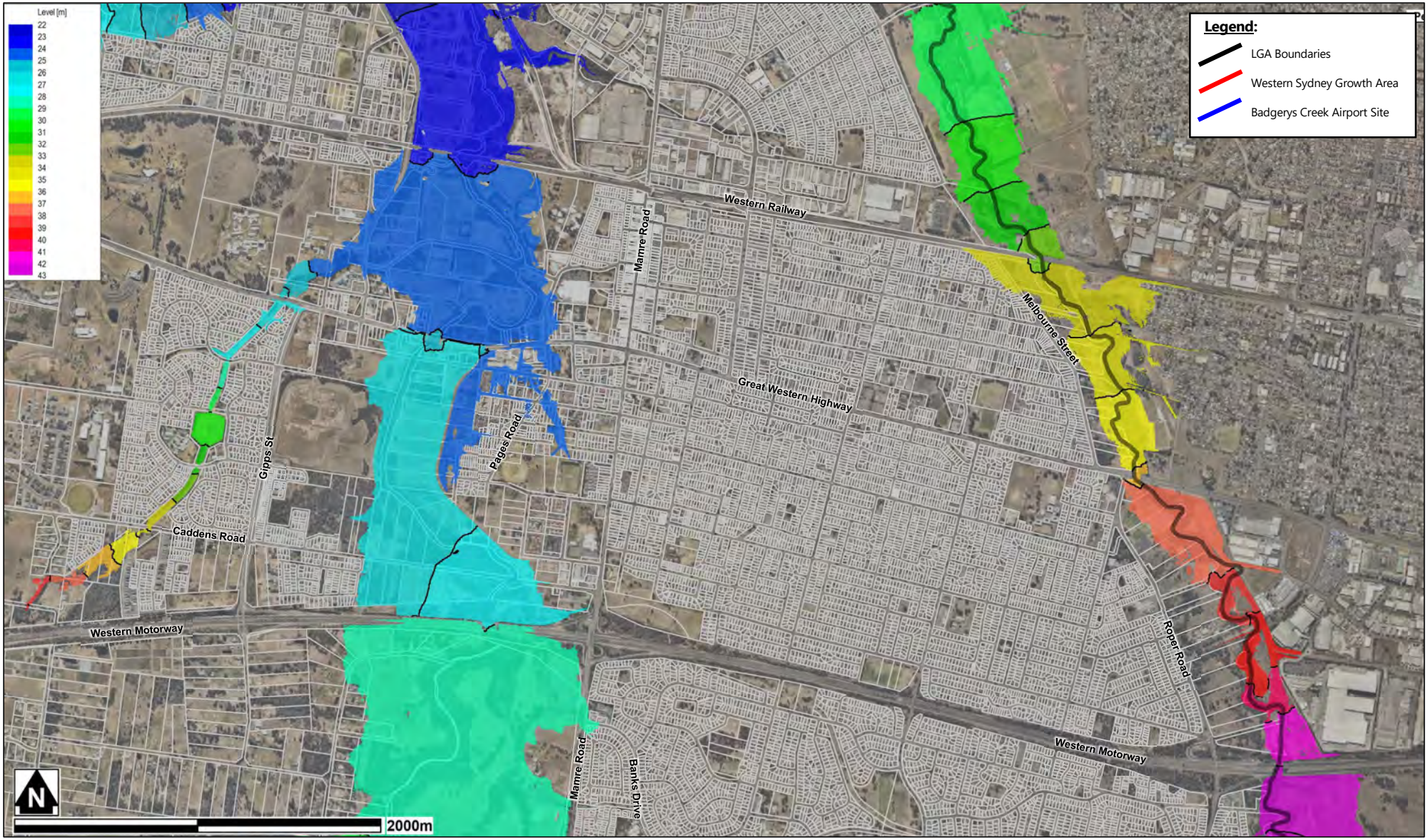
Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 5 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.14



Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

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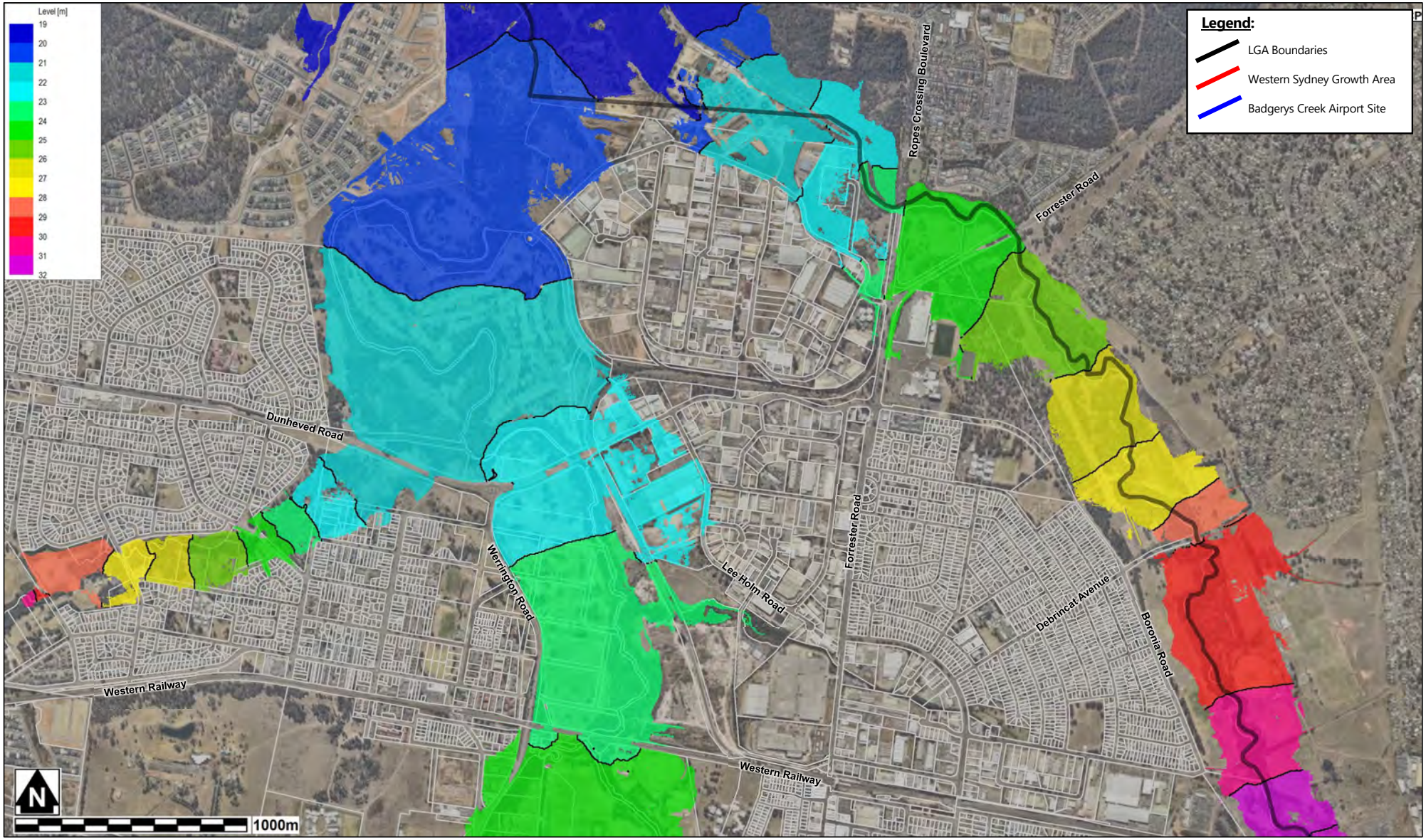
PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 6 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.15



Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

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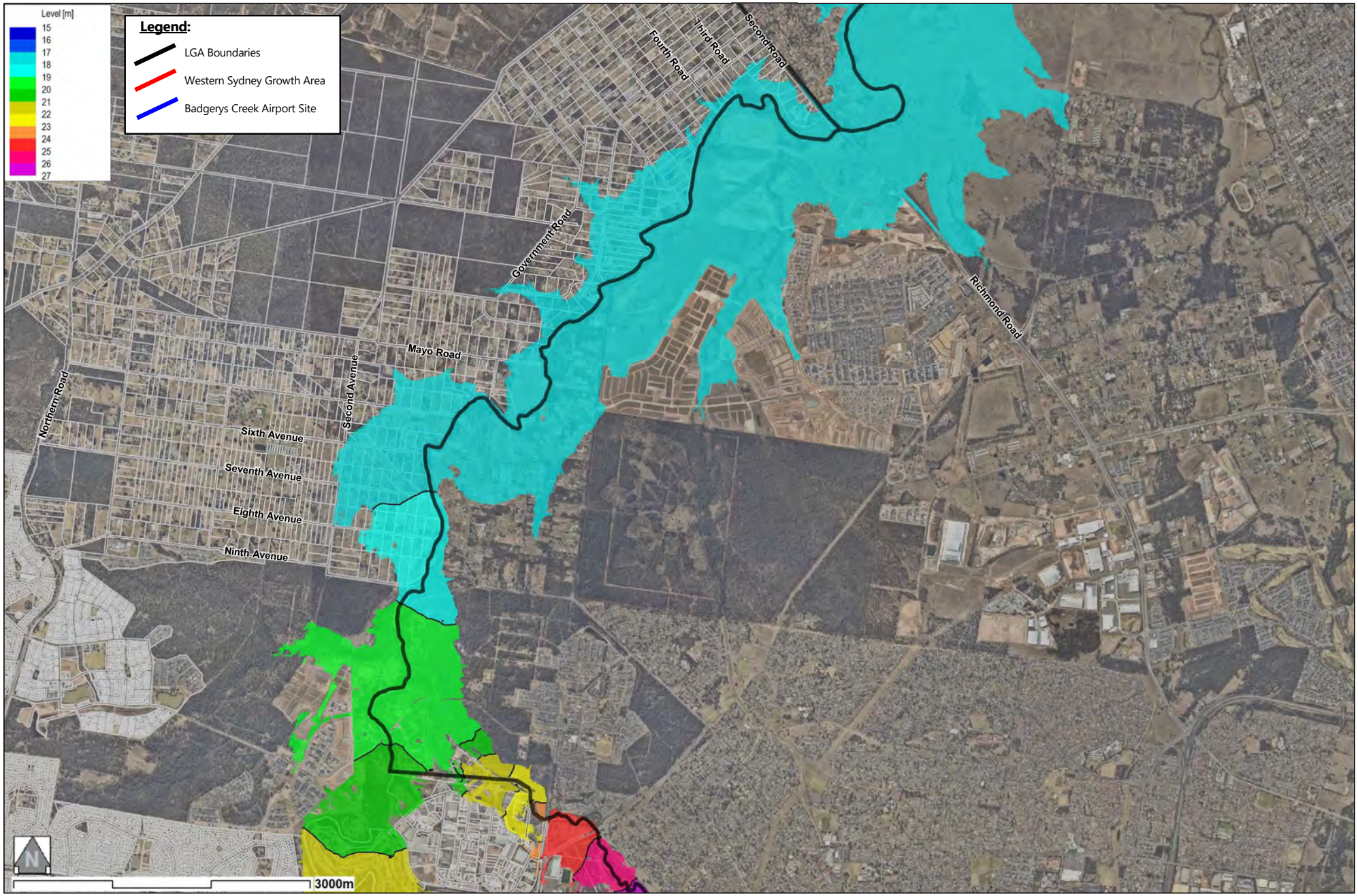
PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 7 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.16



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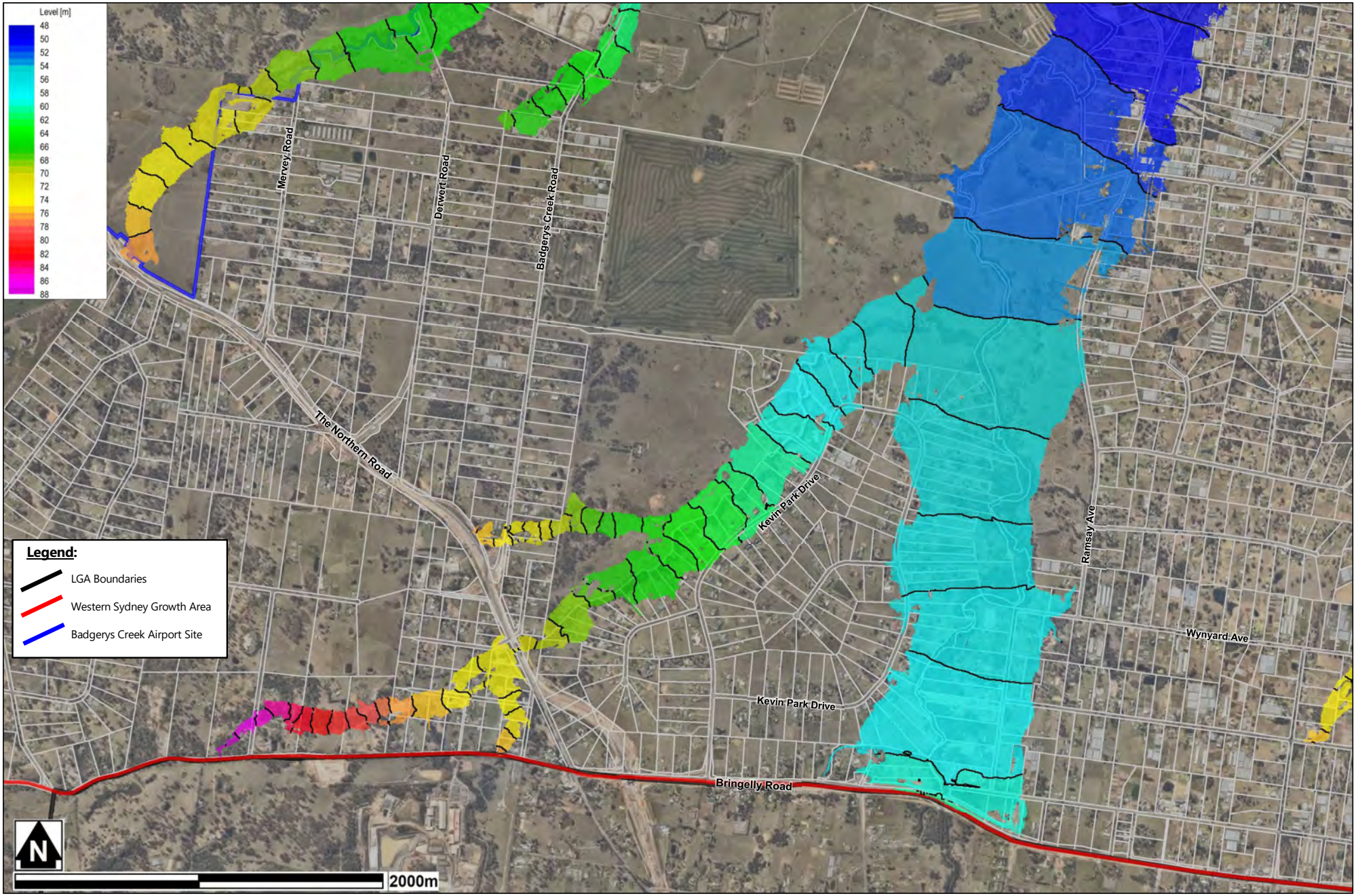
Note:

Peak 1% AEP flood levels are based on a 'Peak-of-Peaks' surface generated from simulations of 2, 9 and 36 hour duration 1% AEP events.

PREDICTED FLOOD LEVELS AT THE PEAK OF THE 1% AEP FLOOD
[BASE CASE - EXTENT 8 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.17



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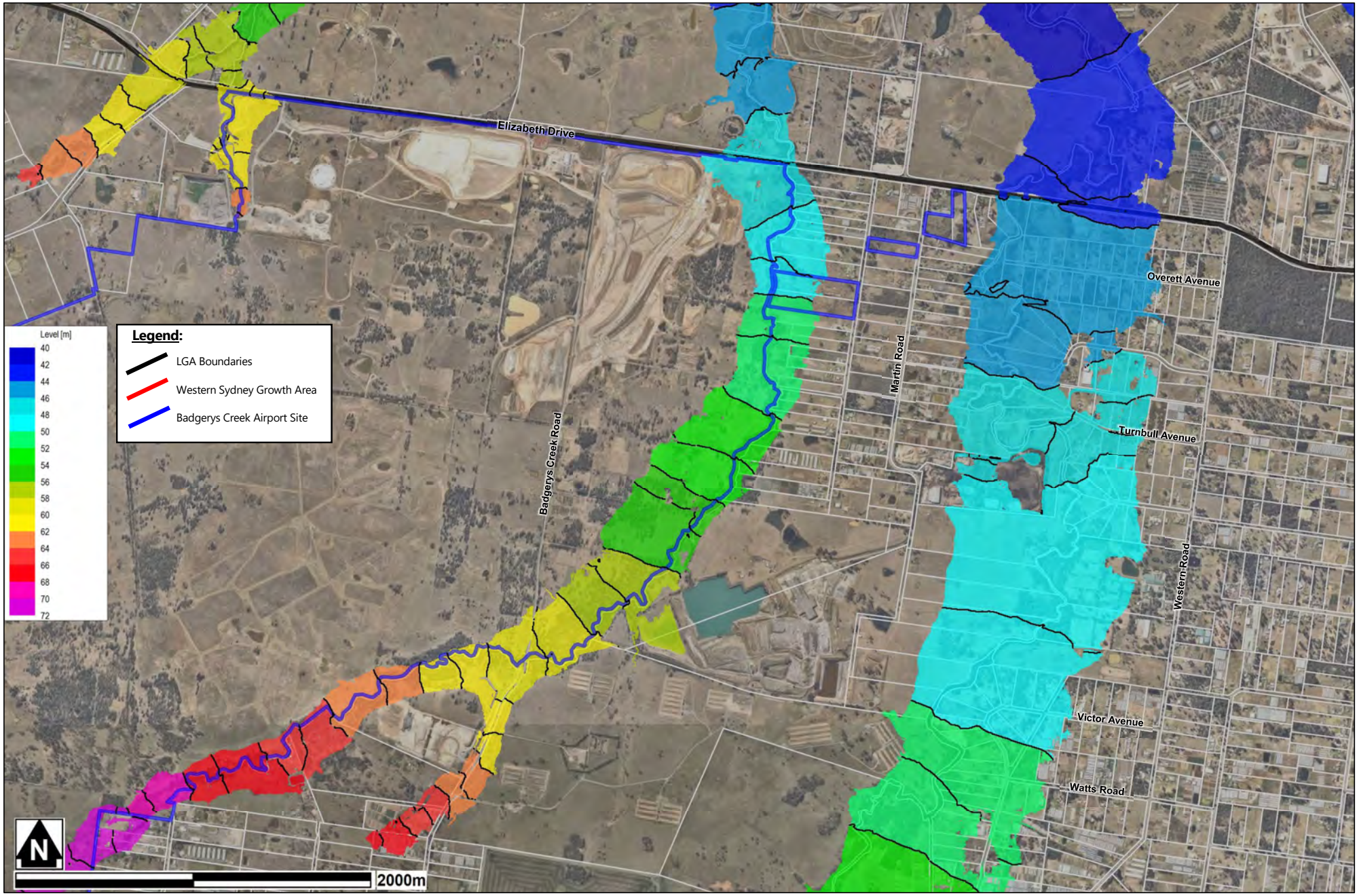
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 1 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.18



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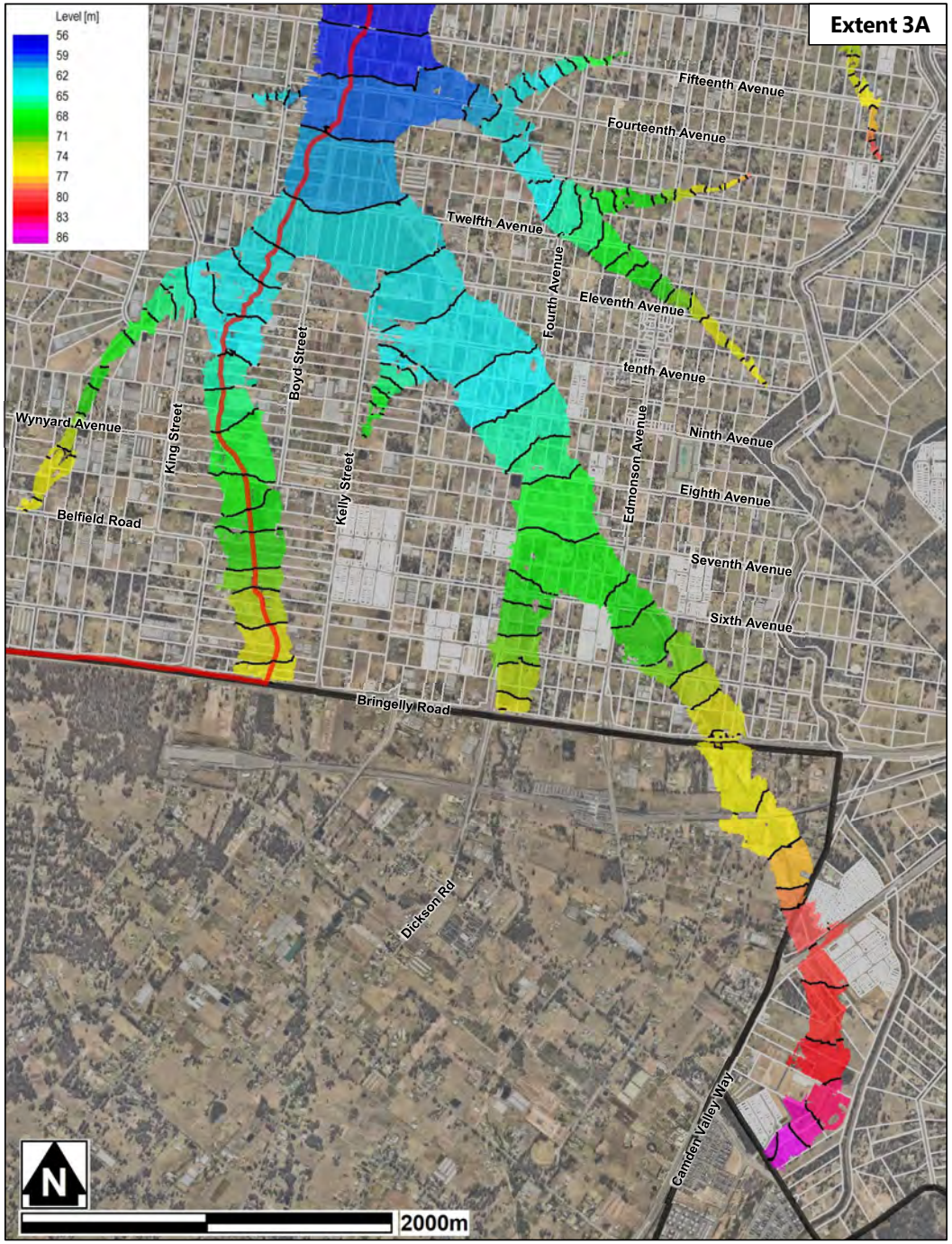
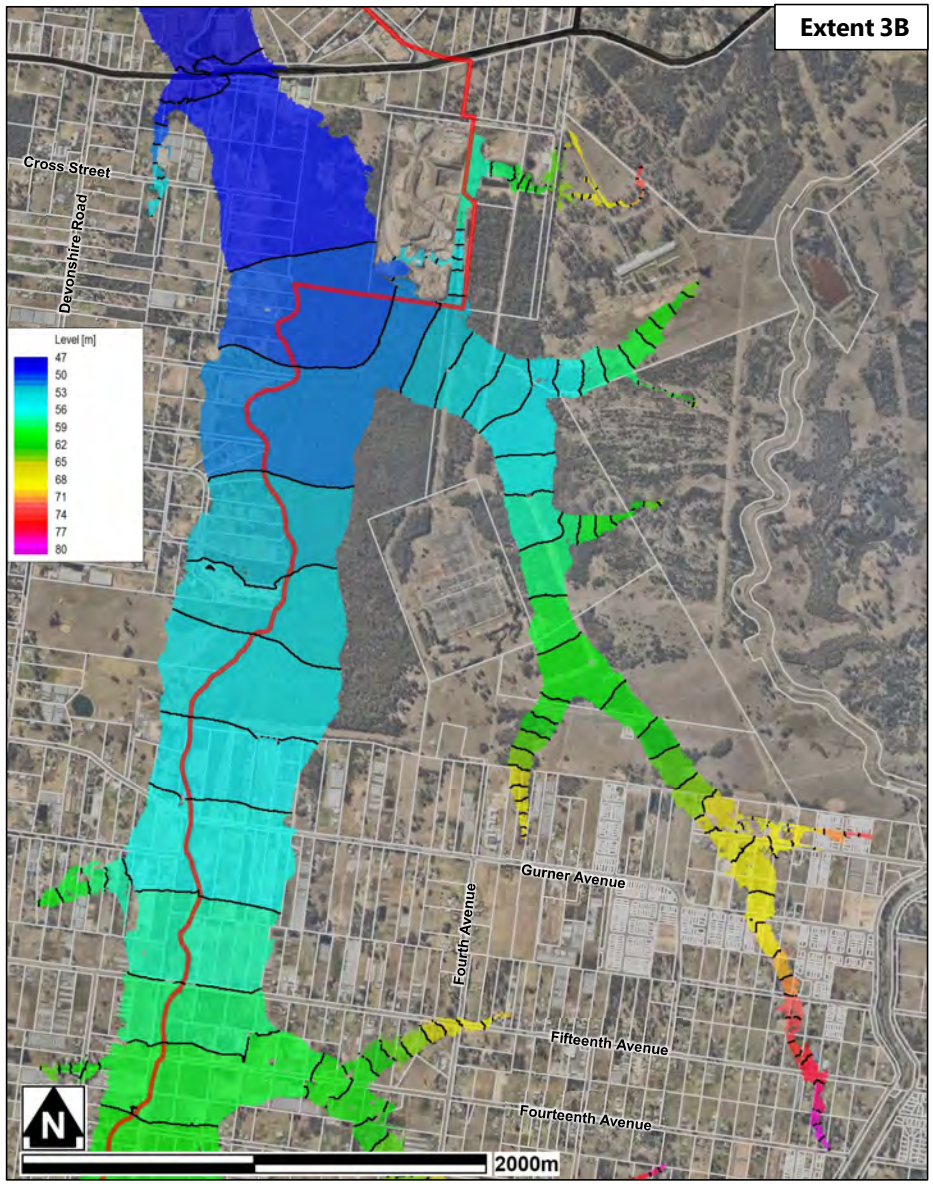
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 2 of 8]





Legend:

- LGA Boundaries
- Western Sydney Growth Area
- Badgerys Creek Airport Site

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.19

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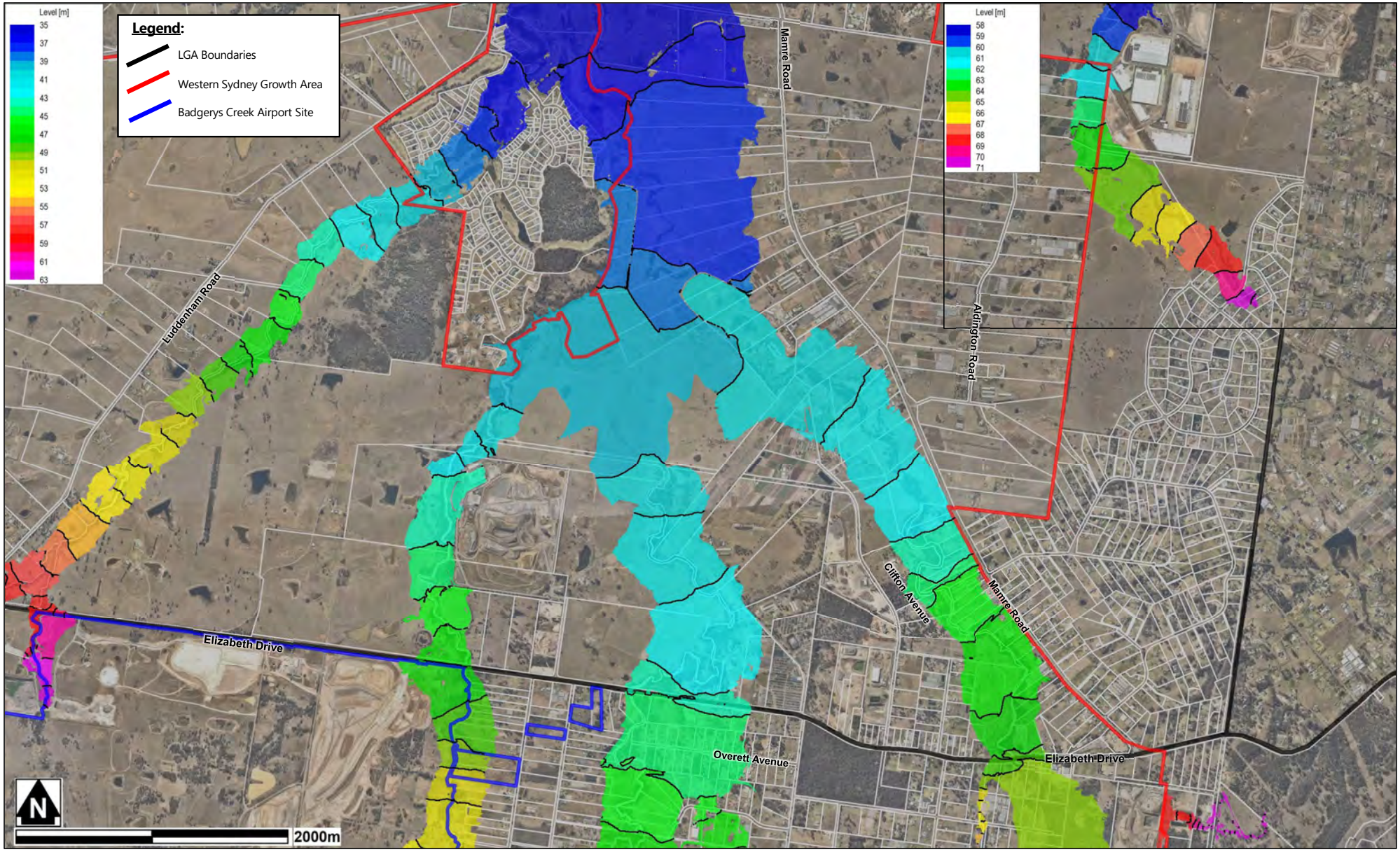
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 3 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.20



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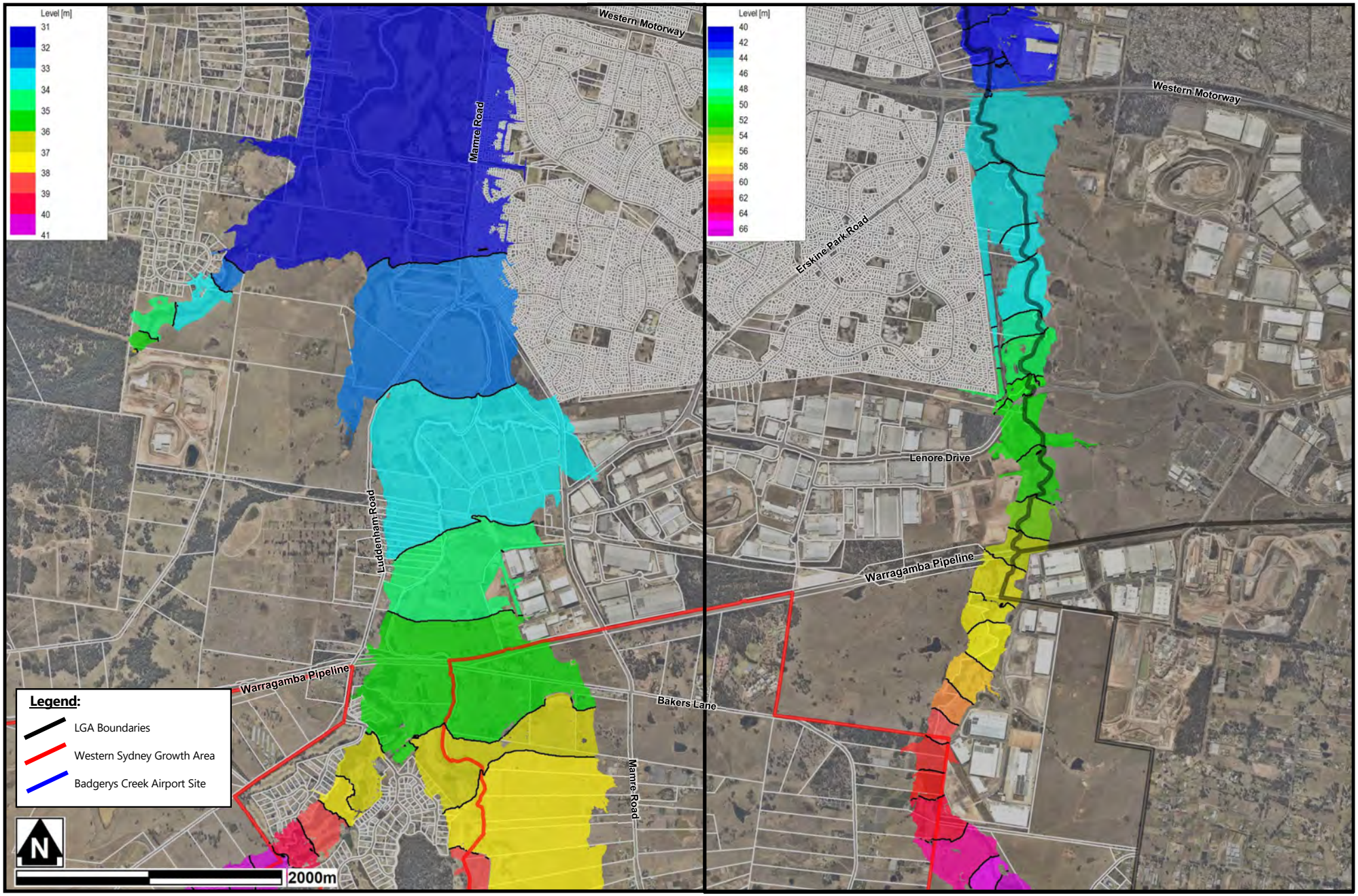
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 4 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.21



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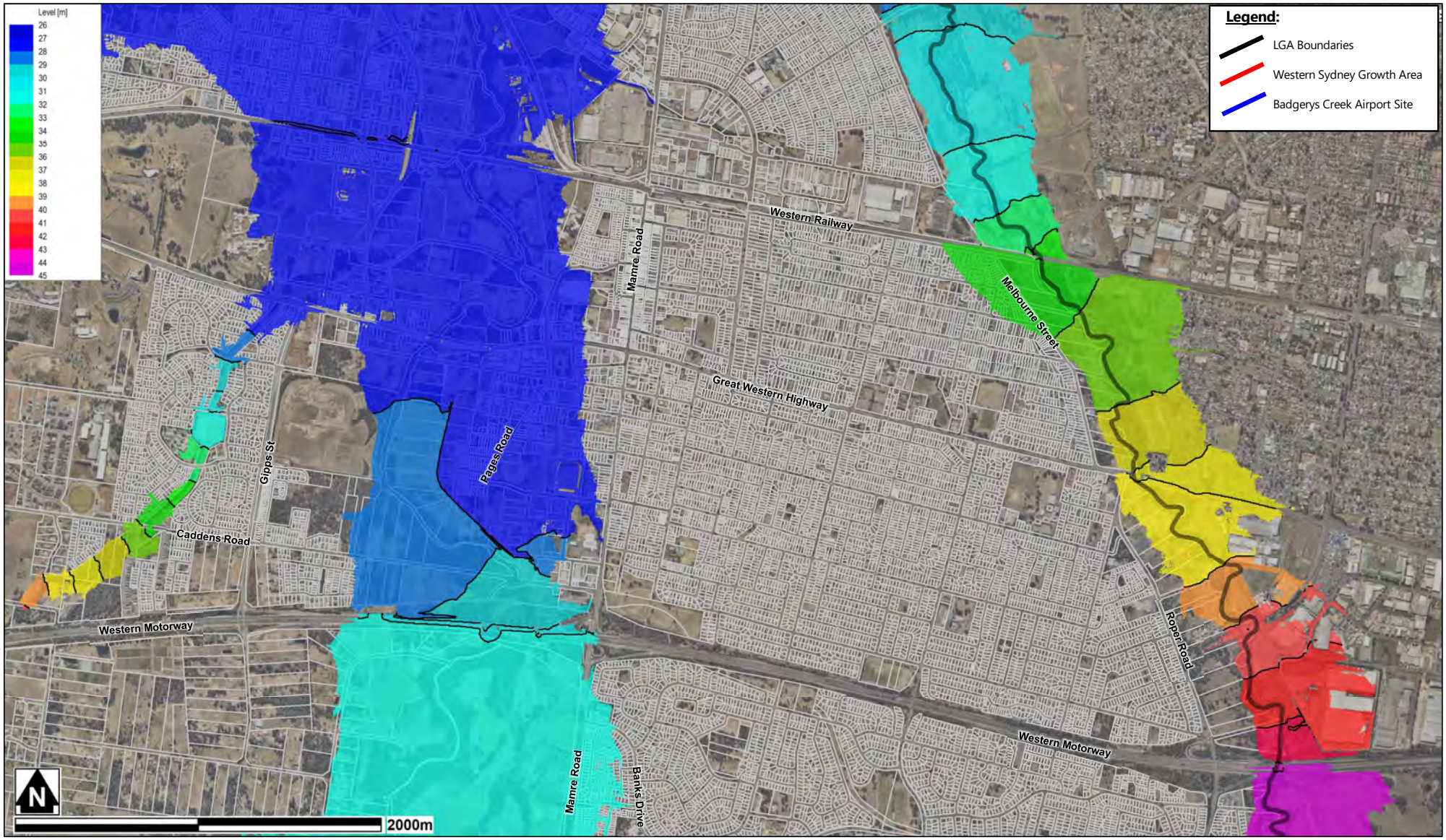
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 5 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.22



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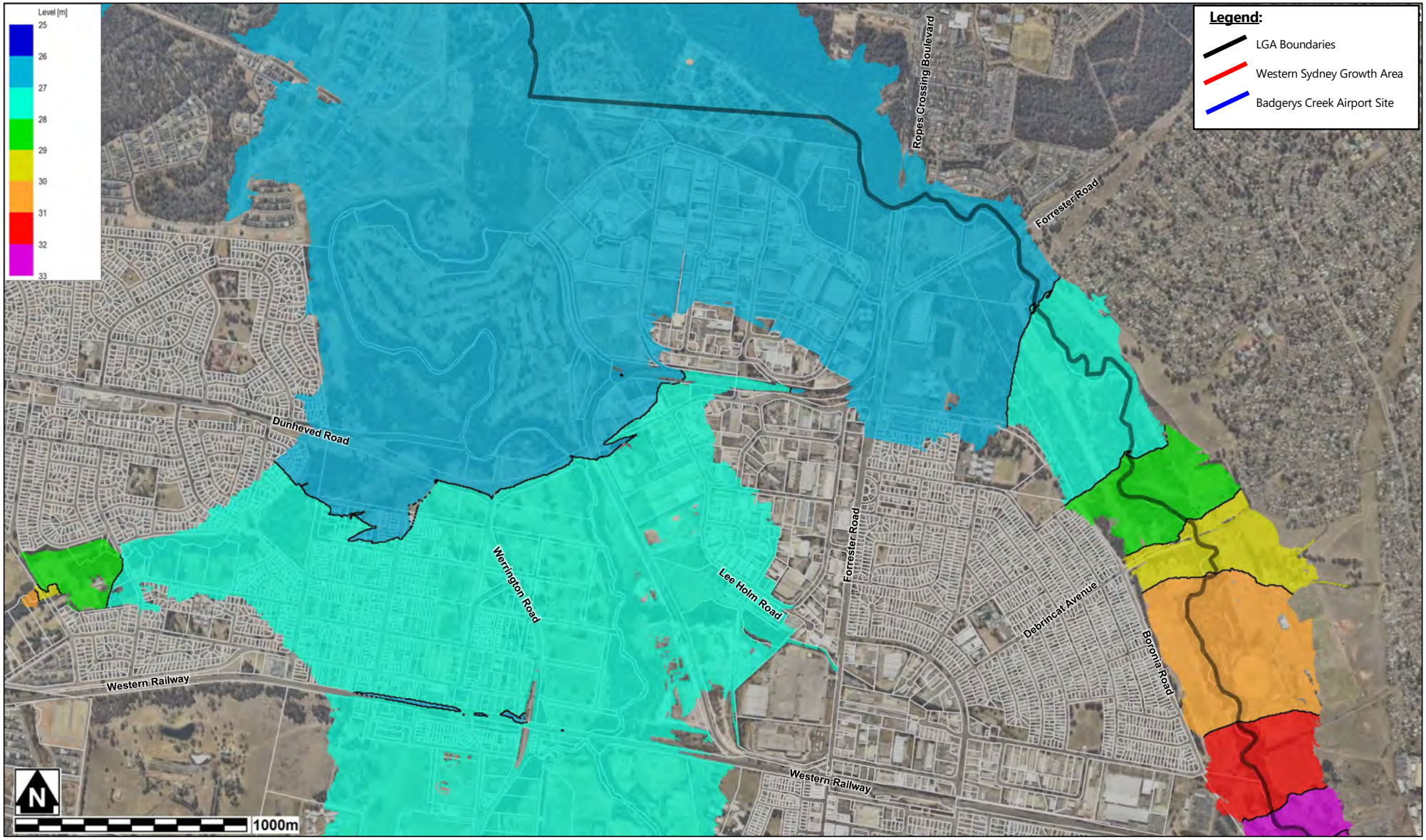
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 6 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.23



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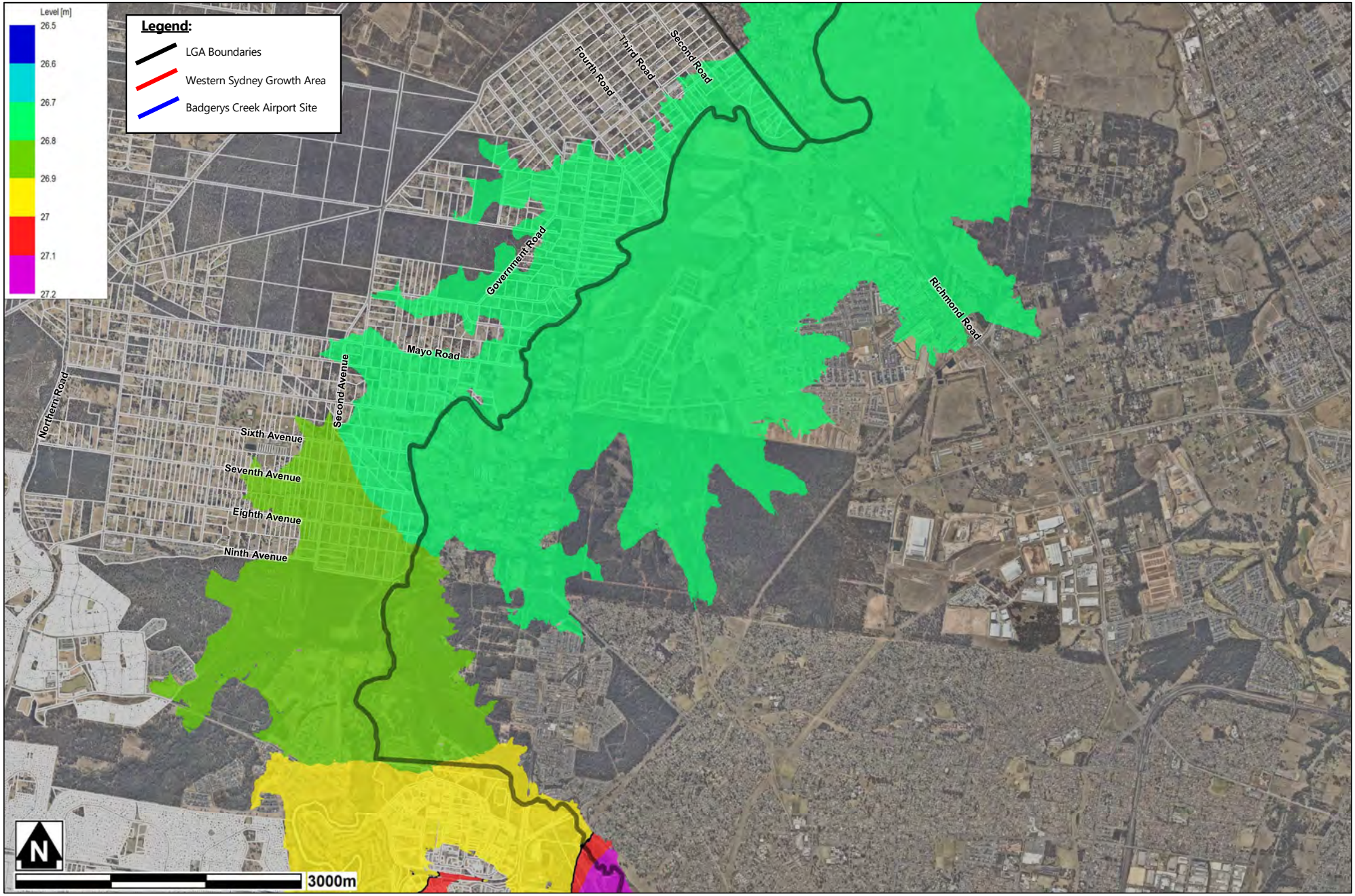
PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 7 of 8]

SOURCE: Wianamatta South Creek – Existing Catchment Flood Study (Advisian, May 2022)

FIGURE 5.24



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PREDICTED FLOOD LEVELS AT THE PEAK OF THE PROBABLE MAXIMUM FLOOD
[BASE CASE - EXTENT 8 of 8]

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

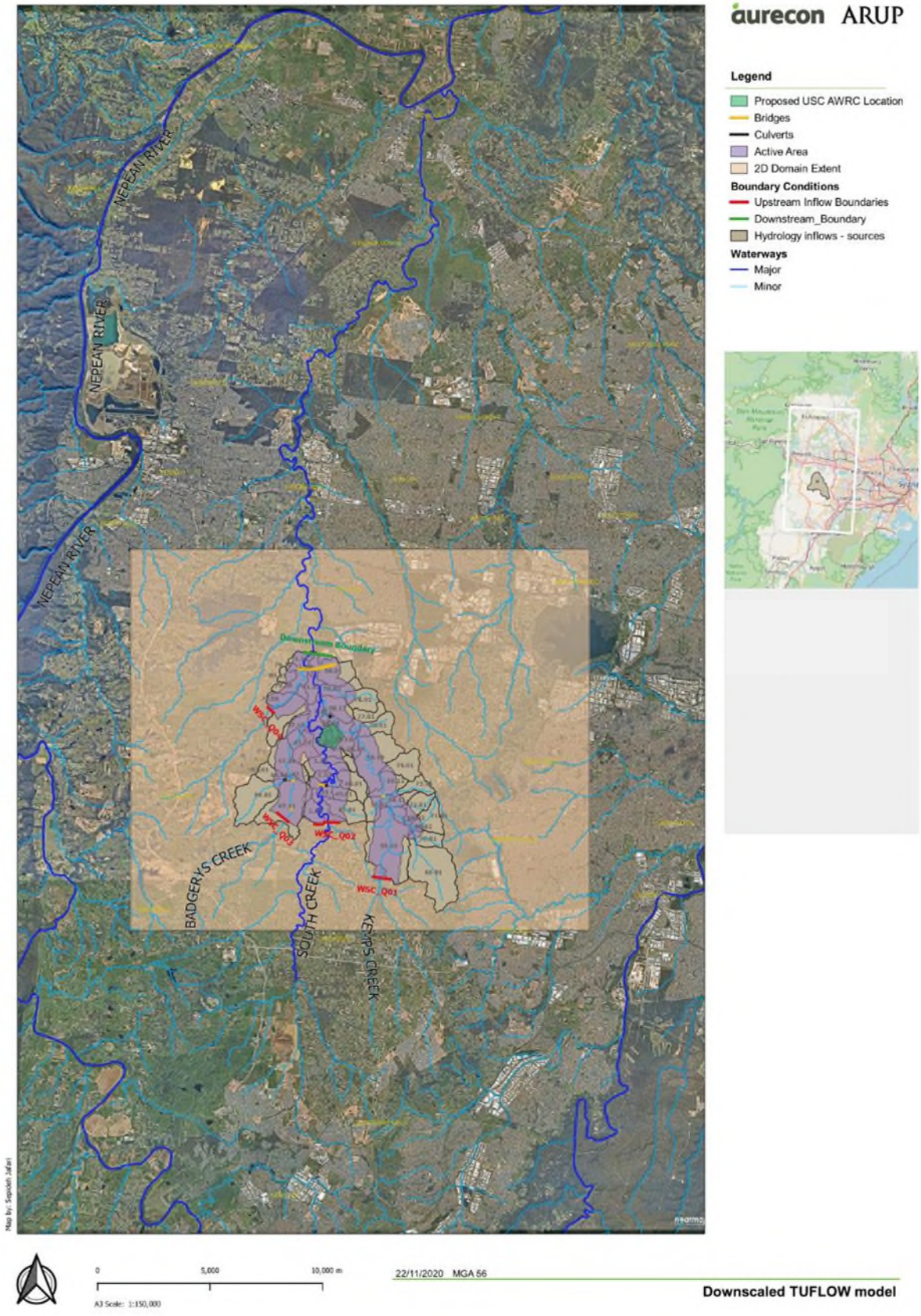

Figure 2 AWRC TUFLOW Model extent

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

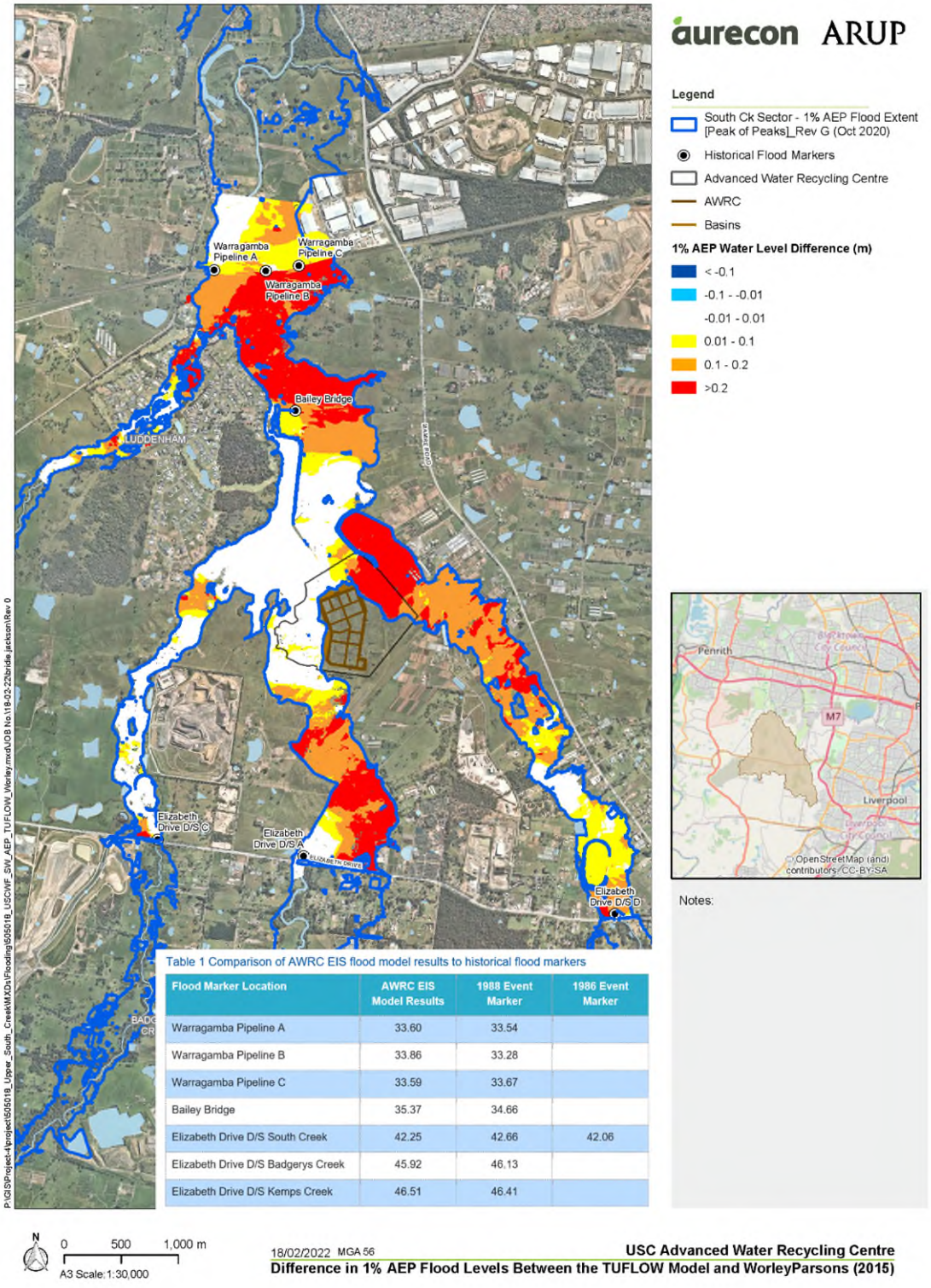

Table 1 Comparison of AWRC EIS flood model results to historical flood markers

Flood Marker Location	AWRC EIS Model Results	1988 Event Marker	1986 Event Marker
Warragamba Pipeline A	33.60	33.54	
Warragamba Pipeline B	33.86	33.28	
Warragamba Pipeline C	33.59	33.67	
Bailey Bridge	35.37	34.66	
Elizabeth Drive D/S South Creek	42.25	42.66	42.06
Elizabeth Drive D/S Badgerys Creek	45.92	46.13	
Elizabeth Drive D/S Kemps Creek	46.51	46.41	

Figure 3 Comparison between existing case 1% AEP ARR1987 flooding. AWRC TUFLOW results shown with the Government's flood model, Penrith City Council's flood model (WorleyParsons, 2015) and historical markers

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

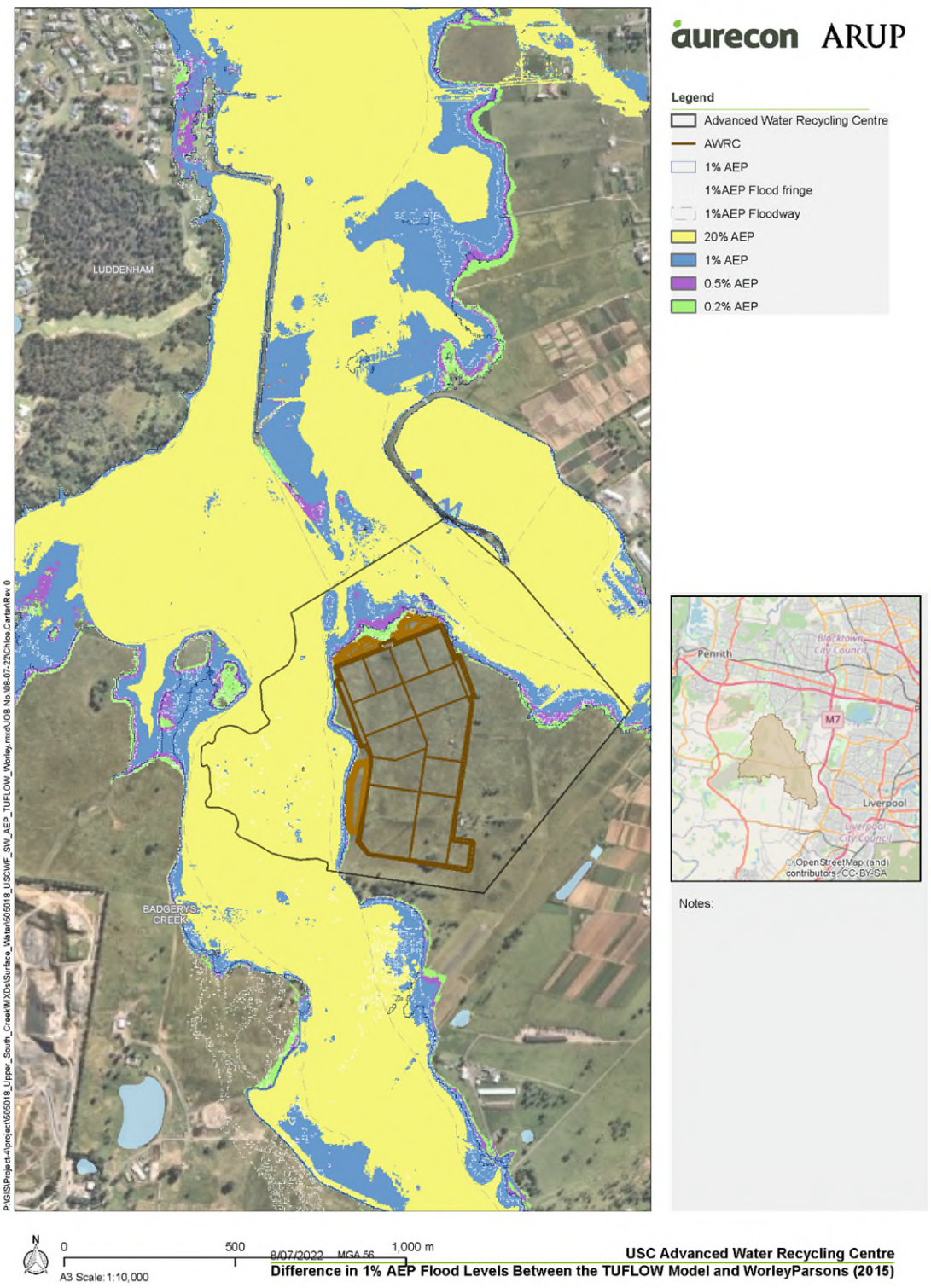

Figure 4 Existing flood behaviour mapping showing flood constraints and set backs to AWRC

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

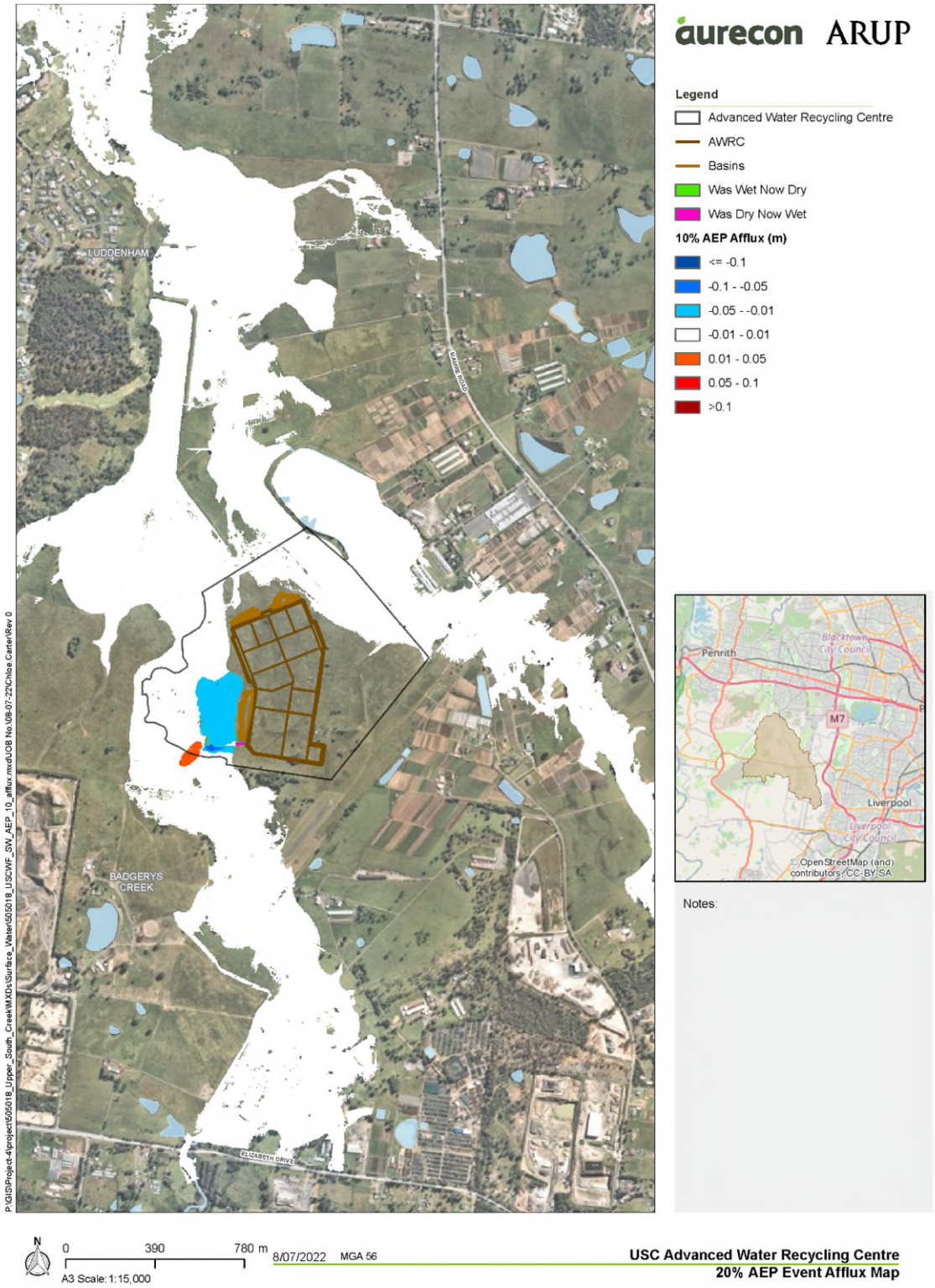

Figure 5 Afflux mapping using 20% AEP Event hydrographs provided by INSW

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

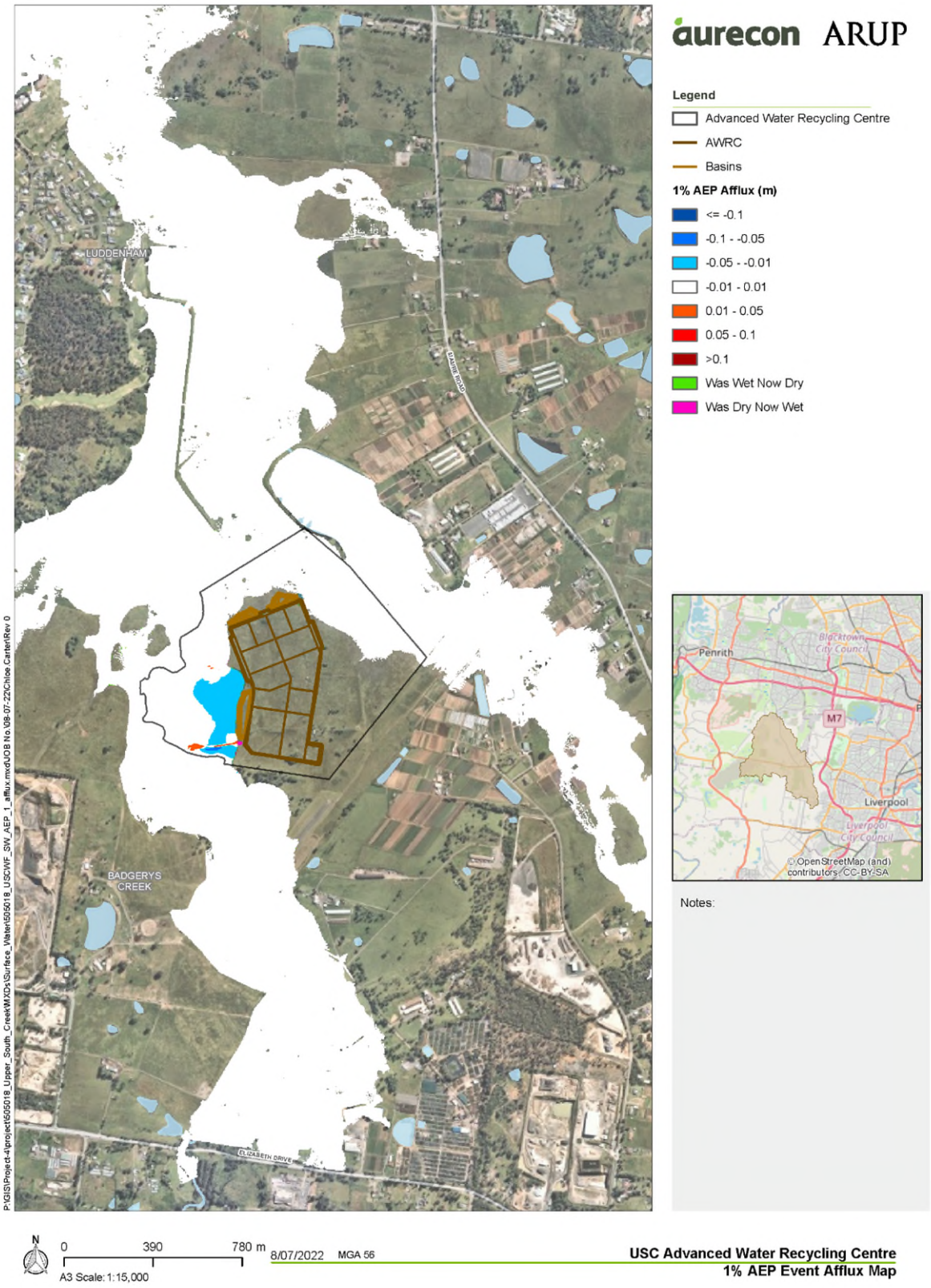

Figure 6 Afflux mapping using 1% AEP Event hydrographs provided by INSW

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

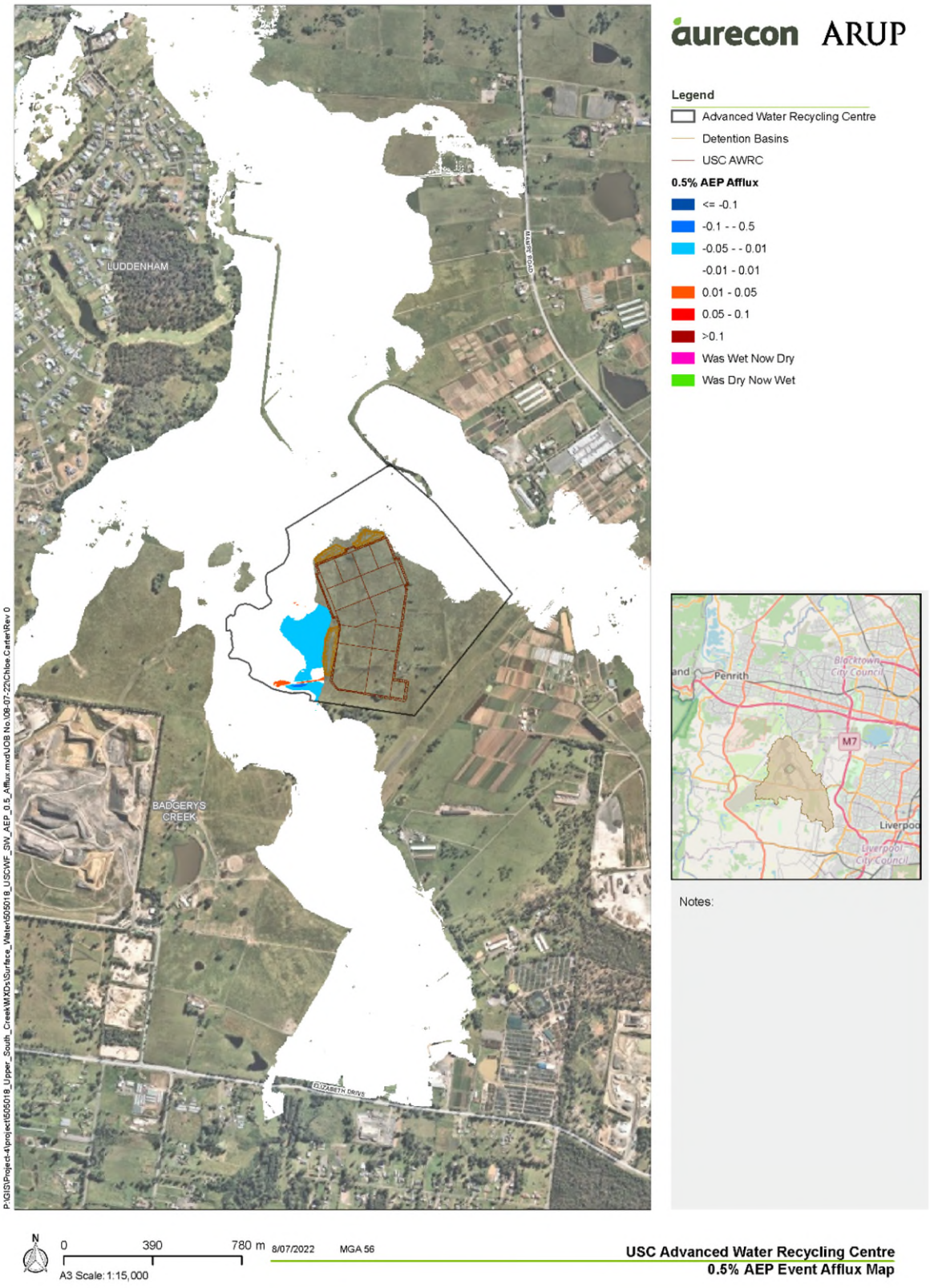

Figure 7 Afflux mapping using 0.5% AEP Event hydrographs provided by INSW

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

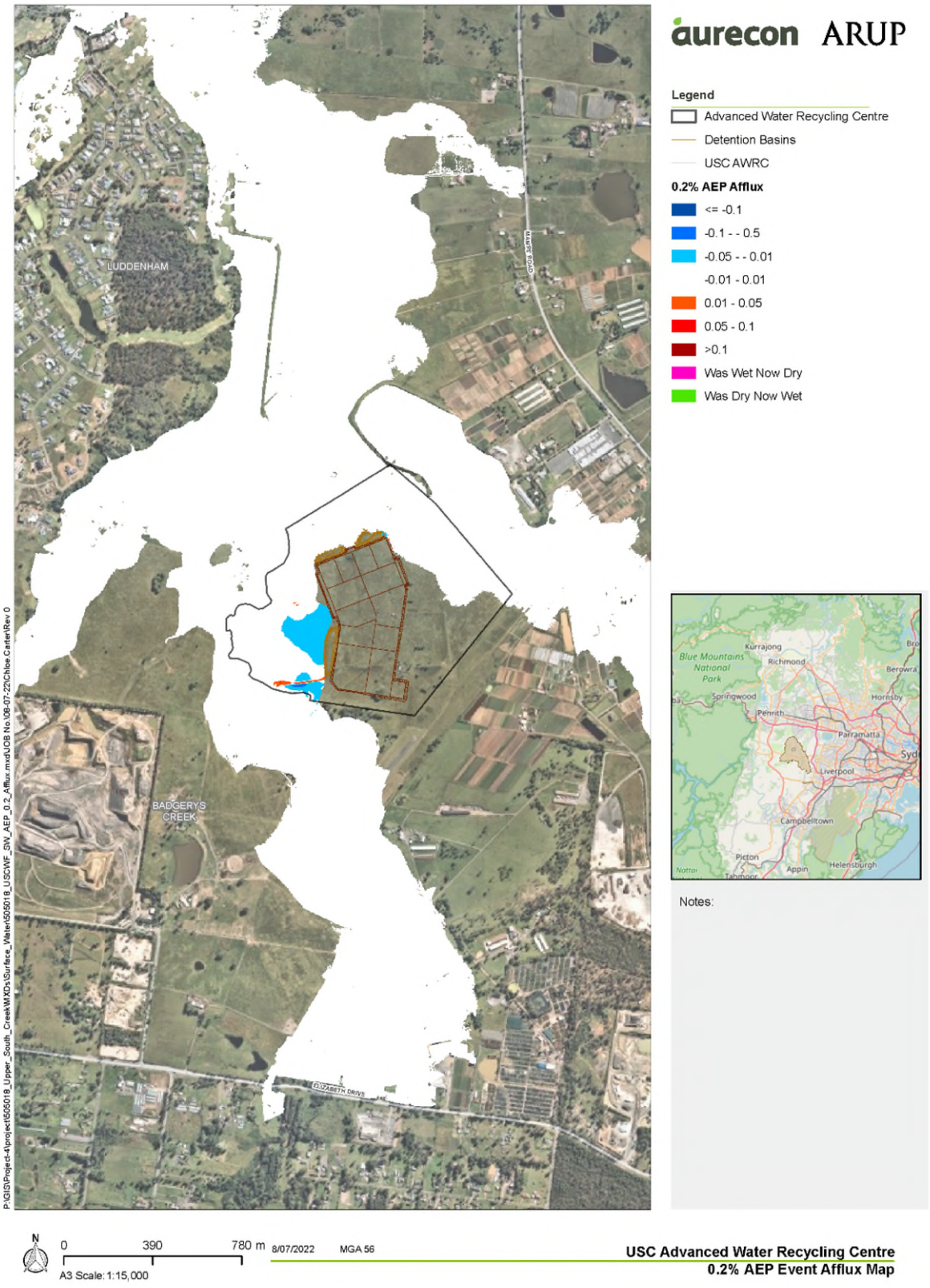

Figure 8 Afflux mapping using 0.2% AEP Event hydrographs provided by INSW

SOURCE: USC AWRC response to request for information 44447594 – flooding, 11 July 2022

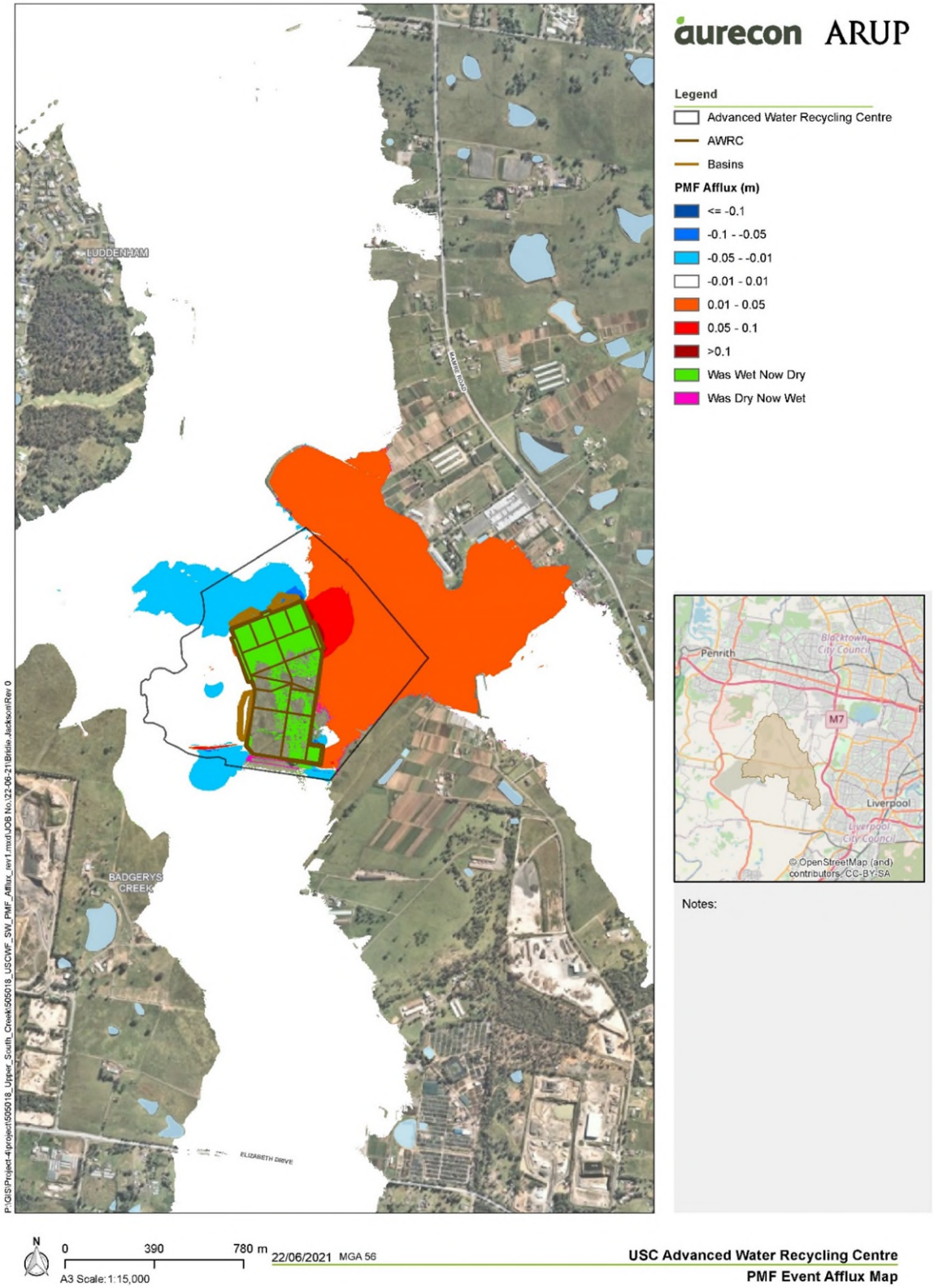

Figure 9 Afflux mapping using PMF event hydrographs provided by the AWRC XP RAFTs model

Appendix C Evacuation Routes

Map and Routes to be confirmed by JH prior to commencement of construction.

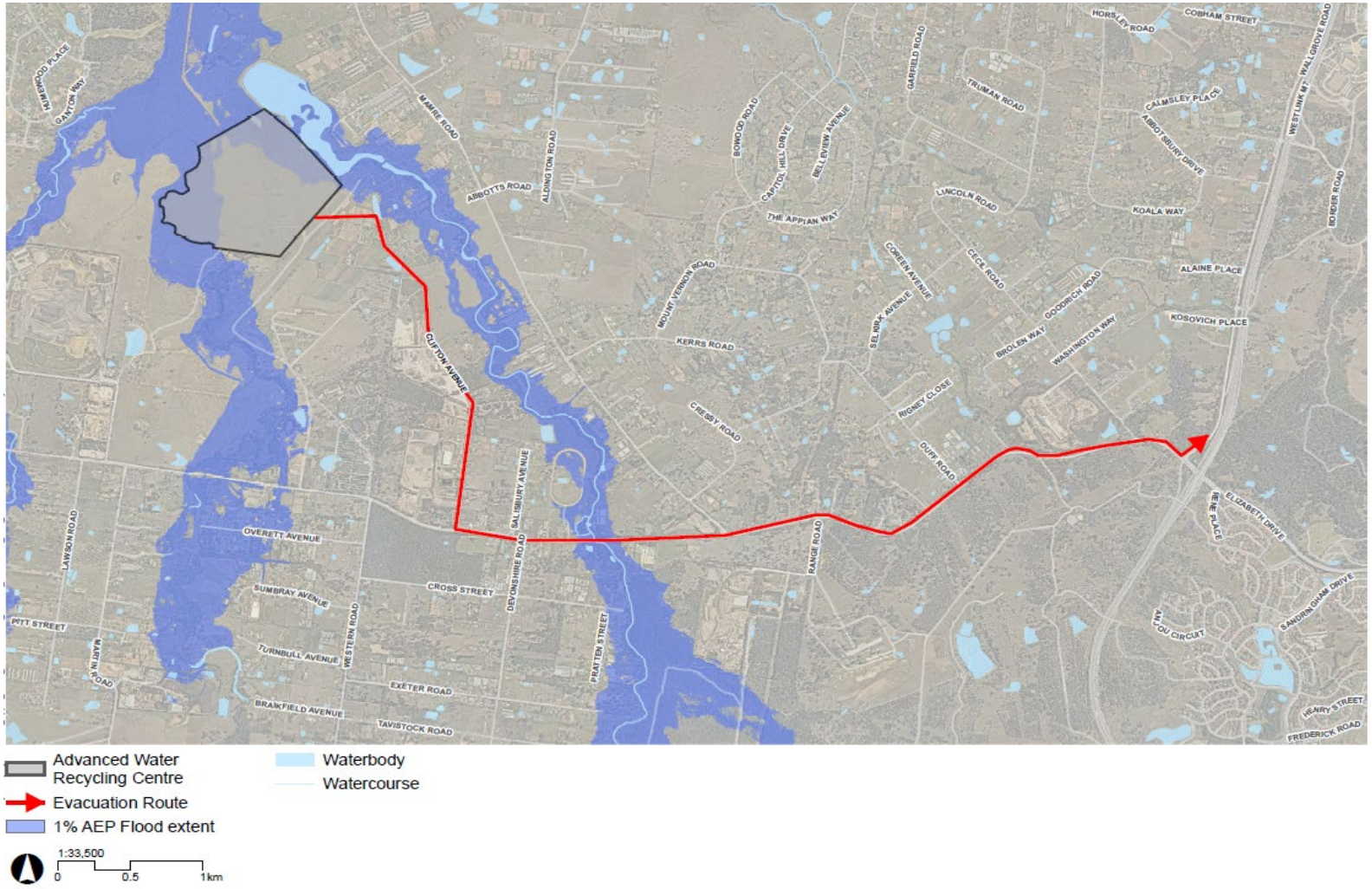

Figure C. (1) Proposed evacuation routes.

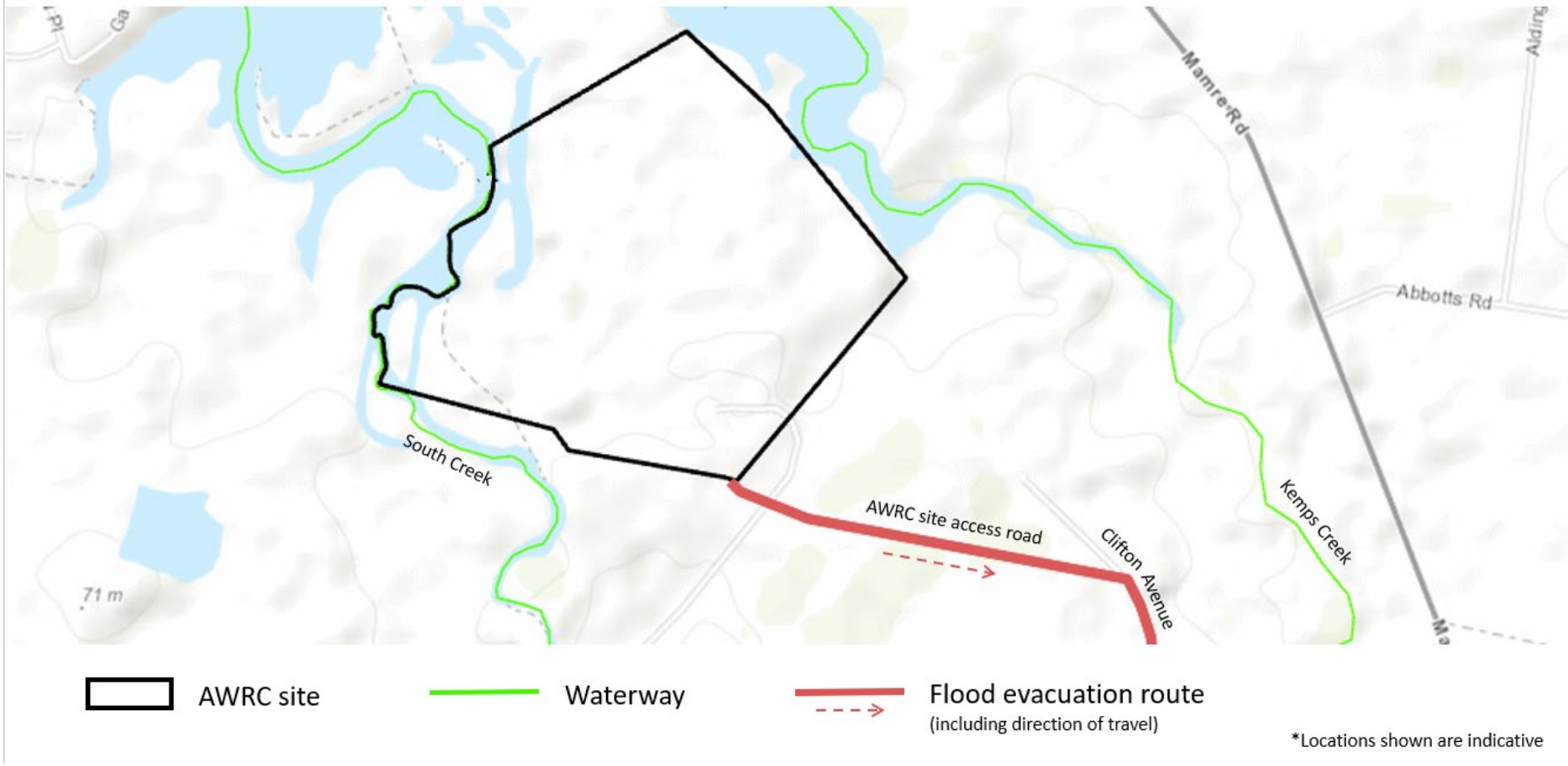

Figure C. (2) Proposed evacuation routes – detail 1 of 3

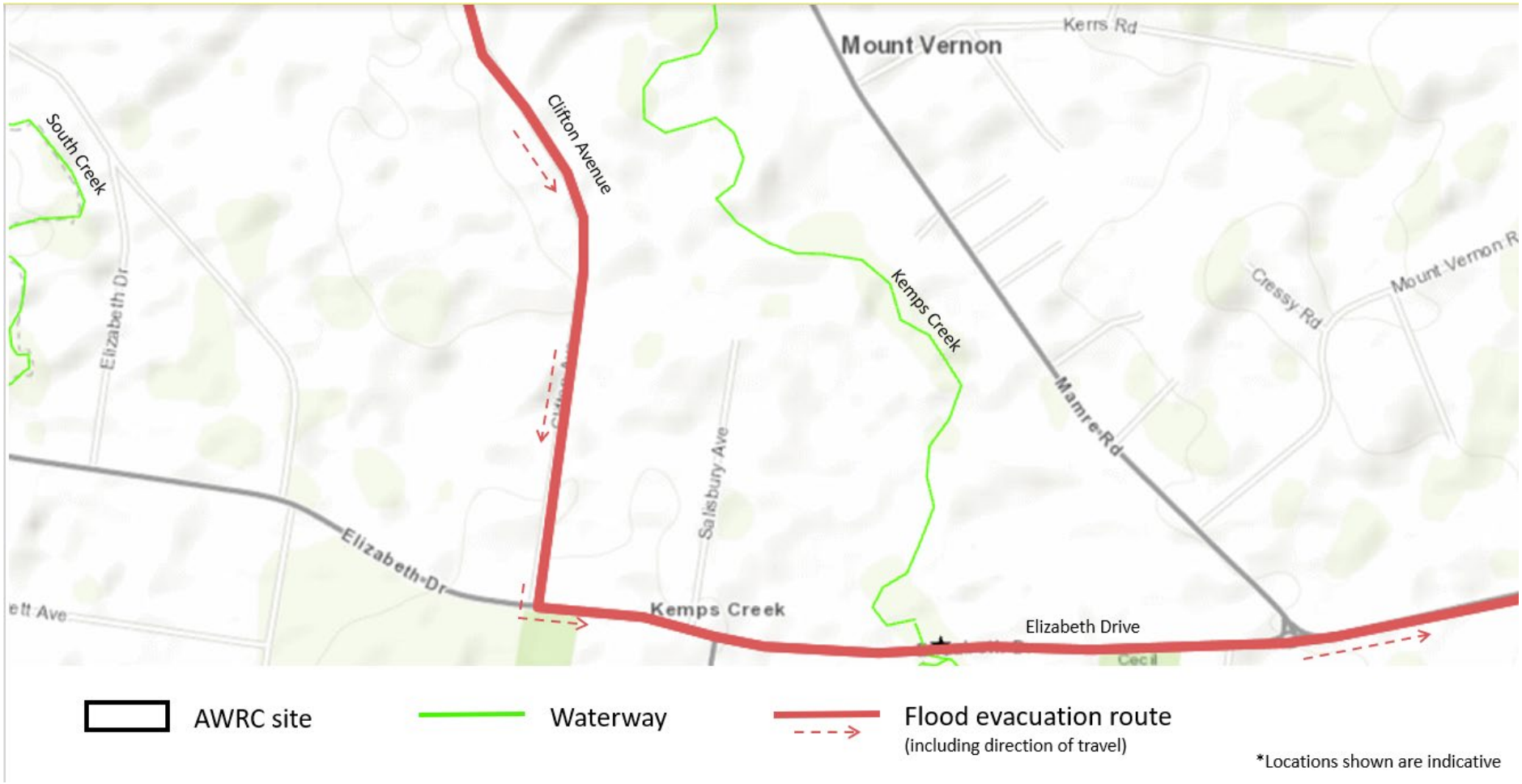

Figure C. (3) Proposed evacuation routes – detail 2 of 3

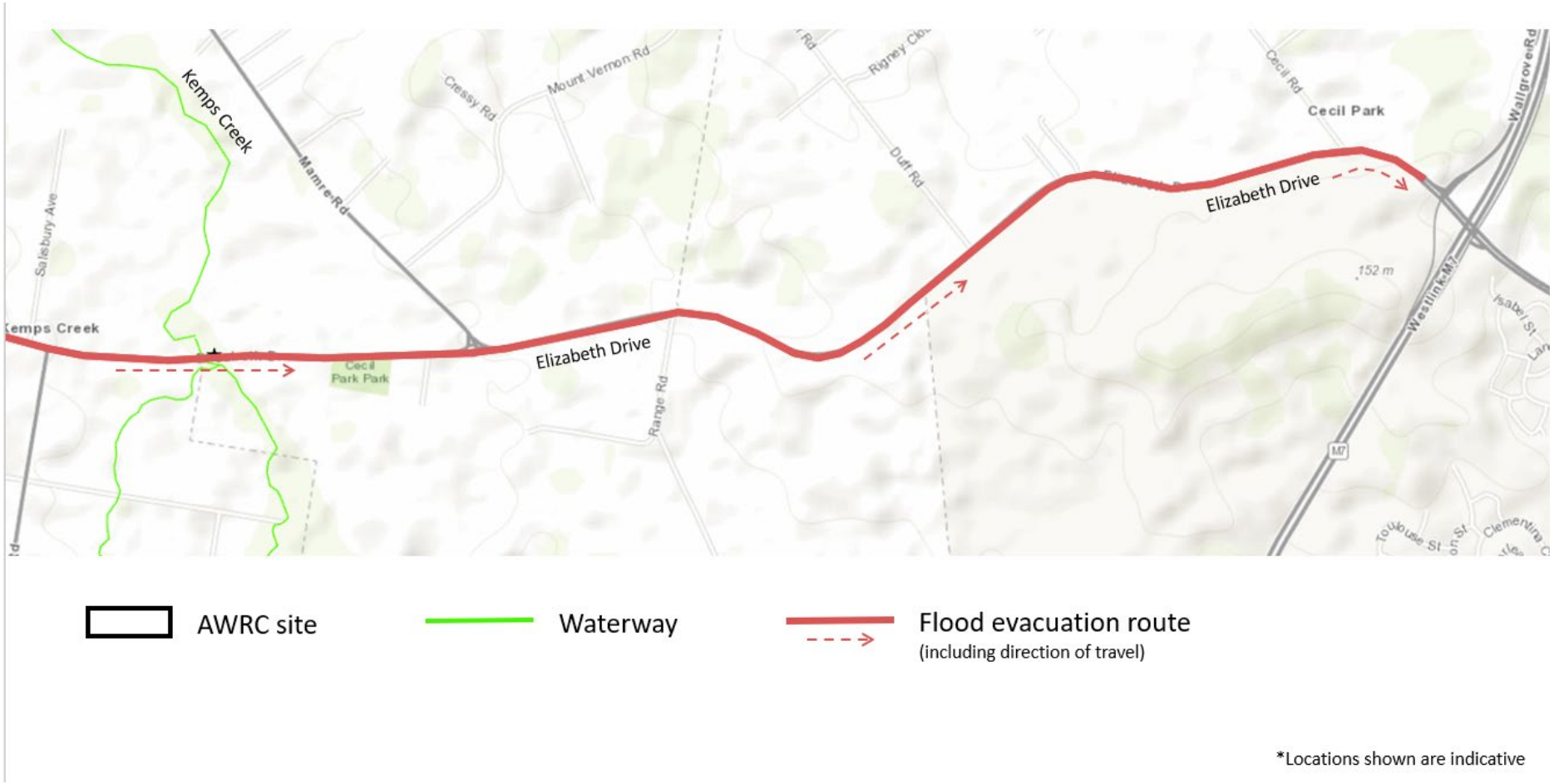

Figure C. (4) Proposed evacuation routes – detail 3 of 3