

8 July 2022

Infrastructure NSW
Attn: Jennifer Chang
19 Martin Place
Sydney NSW 2000
Attention: Jennifer Chang

By email: jennifer.chang@infrastructure.nsw.gov.au

Dear Jennifer,

RE: INTERIM AUDIT ADVICE LETTER NO. 4 - SSD 8925 MOD 7, THE NEW SYDNEY FISH MARKET

Ramboll Australia Pty Ltd
Level 3, 100 Pacific Highway
PO Box 560
North Sydney NSW 2060

T +61 2 9954 8100
www.ramboll.com

Ref 318000632

1. OBJECTIVE AND SCOPE

As a NSW Environment Protection Authority (EPA) accredited Contaminated Sites Auditor, I am conducting an Audit in relation to the site at 1A to 1C Bridge Road, Glebe, NSW and part of 56-60 Pyrmont Bridge Road, Pyrmont, NSW. The site location is shown on **Attachment 1**.

State Significant Development (SSD) application 8925 was approved by the Minister of Planning and Public Spaces on 12 June 2020 for Stage 2 of the new Sydney Fish Market (nSFM), for construction, use and operation. Modification MOD 7 to amend the basement construction methodology to enable the capping of redistributed sediments beneath the approved basement in the coffer dam was granted on 13 May 2022 (**MOD 7**).

This fourth Interim Audit Advice Letter (**IAA #4**) has been prepared to address new requirements for Condition B93 which requires audit review of the letter 'Re: *Sediment Capping – Environmental Assessment, New Sydney Fish Market*', 15 February 2022, Senversa Pty Ltd (Senvessa) (**the Capping Methodology Letter**).

Other aspects of Condition B93 were addressed in the following documents prepared by me:

- 'Site Audit Report - The New Sydney Fish Market, 1A to 1C Bridge Road, Glebe and part of 56-60 Pyrmont Bridge Road, Pyrmont, NSW' and Site Audit Statement (SAS) TO-054-A, dated 25 September 2019 (**TO-054-A**)
- 'Interim Audit Advice No. 1 – Data Gap Assessment and Hazardous Materials Management Plan, The New Sydney Fish Market' dated 13 August 2020 (**IAA #1**)

Ramboll Australia Pty Ltd
ACN 095 437 442
ABN 49 095 437 442

- 'Site Audit Report - Revised Remedial Action Plan, The New Sydney Fish Market, Pyrmont NSW' and SAS TO-054-B, dated 13 August 2020 (**TO-054-B**)
- 'Interim Audit Advice No. 2 – Condition B93 of SSD 8924 MOD 4, The New Sydney Fish Market' dated 31 August 2020 (**IAA #2**)
- 'Interim Audit Advice Letter No. 3 – RAP Addendum, The New Sydney Fish Market' dated 18 May 2022 (**IAA #3**).

My review includes reference to the following previously reviewed and endorsed documents:

- 'Remedial Action Plan, The New Sydney Fish Market, 1A to 1C Bridge Road, Glebe and part 56-60 Pyrmont Bridge Road, Pyrmont, NSW', Report No. 54162/113808 (Rev 4), 8 July 2020, JBS&G (**the Revised RAP**).
- 'Acid Sulfate Soil Management Plan, The New Sydney Fish Market, 1A to 1C Bridge Road, Glebe, NSW', Rev 6, 26 April 2021, JBS&G (**the ASSMP Rev 6**)

I have also undertaken discussions with Infrastructure NSW, and with JBS&G and Senversa.

2. PROPOSED CAPPING

The following is approved:

- Sediments are to be redistributed within the work area as outlined in the approved MOD4 application (reviewed for IAA #2)
- Installation of a temporary cofferdam around the construction footprint overlying Blackwattle Bay
- Temporary partial dewatering inside the cofferdam to facilitate pile completion and building construction
- Flooding and subsequent removal of the cofferdam on completion of building basement construction.

MOD 7 proposes capping of the sediments prior to dewatering to create a dry working platform within the cofferdam. The cap will be placed over approximately 23,100 m² of sediments (i.e., the area within the coffer dam) as shown on **Attachment 2**.

The Capping Methodology Letter indicates the platform is to be made up of two 600 mm bands of clean virgin excavated natural material (VENM) sand followed by a 400 mm layer of crushed stone (VENM). The sand is to be installed prior to dewatering (marine based installation) using a hopper barge with sand to be pumped directly to the workface via a hydraulically driven submersible pump.

At completion, the level of the sand layers will be -3.9 AHD, which is 200 mm above the dewater level. Following dewatering, the remaining capping layer of crushed stone will be installed via land-based machinery building the sediment level up to -3.5 AHD, which is approximately 2.93 m below mean low water tide (-0.57 AHD).

Based on this methodology, the potential acid sulfate soil (PASS) sediments will remain submerged beneath 1 m of water and sand after dewatering (with 200 mm of sand and 400 mm of crushed stone above the dewater level during works). In total the cap will be 1.6 m thick.

A cross section of the proposed cap and relative water level is shown on **Attachment 3**.

Once the basement structure is complete, the cofferdam will be removed. It is at this stage the capping layer becomes fully submersed by the natural water levels of Blackwattle Bay.

The imported VENM is to be validated as per the requirements of the Revised RAP.

Ecological assessment of potential impacts from the proposed capping was provided in 'RE: New Sydney Fish Markets Ecology Assessment – Sub-basement rock placement', Ecological Australia Pty Ltd, 14 February 2022, which was provided as Appendix C to the Capping Methodology Letter. This assessment confirms that the proposed rock placement beneath the basement is acceptable from a marine ecology perspective and is comparable with what has been previously assessed in the original project development application and approved MOD 4 application.

3. AUDITOR'S OPINION

Given that the sediments are to remain water-logged, the proposed works are not expected to result in significant oxidation. Therefore, subject to appropriate validation of the imported VENM in accordance with the Revised RAP, I am of the opinion that the proposed capping is acceptable.

As per IAA #2, methodologies have been provided in ASSMP Rev 6 to minimise acid generation during the sediment relocation. Management controls and monitoring, and contingencies controls, are proposed should unfavourable conditions be generated. These remain adequate.

4. LIMITATIONS

This interim audit advice was conducted on the behalf of Infrastructure NSW for the purpose described in Section 1. This interim audit advice may not be suitable for other uses.

The Auditor has relied on the documents referenced in this letter in preparing the Auditor's Opinion. The consultants included limitations in their reports. This interim audit advice must also be subject to those limitations. The Auditor has prepared this document in good faith, but is unable to provide certification outside of areas over which the Auditor had some control or is reasonably able to check. If the Auditor is unable to rely on any of those documents, the conclusions of this interim audit advice could change.

It is not possible to present all data which could be of interest to all readers of this interim audit advice. Readers are referred to the referenced reports for further data. Users of this document should satisfy themselves concerning its application to, and where necessary seek expert advice in respect to, their situation.

* * *

Consistent with the NSW EPA requirement for staged 'signoff' of sites that are the subject of progressive assessment, remediation, and validation, I advise that:

- This advice letter does not constitute a Site Audit Report or Site Audit Statement.
- At the completion of the remediation and validation I will provide a Site Audit Statement and supporting documentation.
- This interim advice will be documented in the Site Audit Report.

Yours faithfully
Ramboll Australia Pty Ltd



Tom Onus
EPA Accredited Site Auditor 1505

D 02 9954 8133
M 0408 665 517
tonus@ramboll.com

Attachments: 1. Site Location
2. Coffey Dam Area
3. Cross Section of Cap and Relative Water Levels

Attachment 1 - Site Location



Legend

- New Sydney Fish Market Development Footprint

Job No: 54578

Client: Infrastructure NSW

Version: R02 Rev 4	Date: 08-Jul-2020
Drawn By: RF/RH	Checked By: CB

Scale 1:8,000

0 100 200 metres

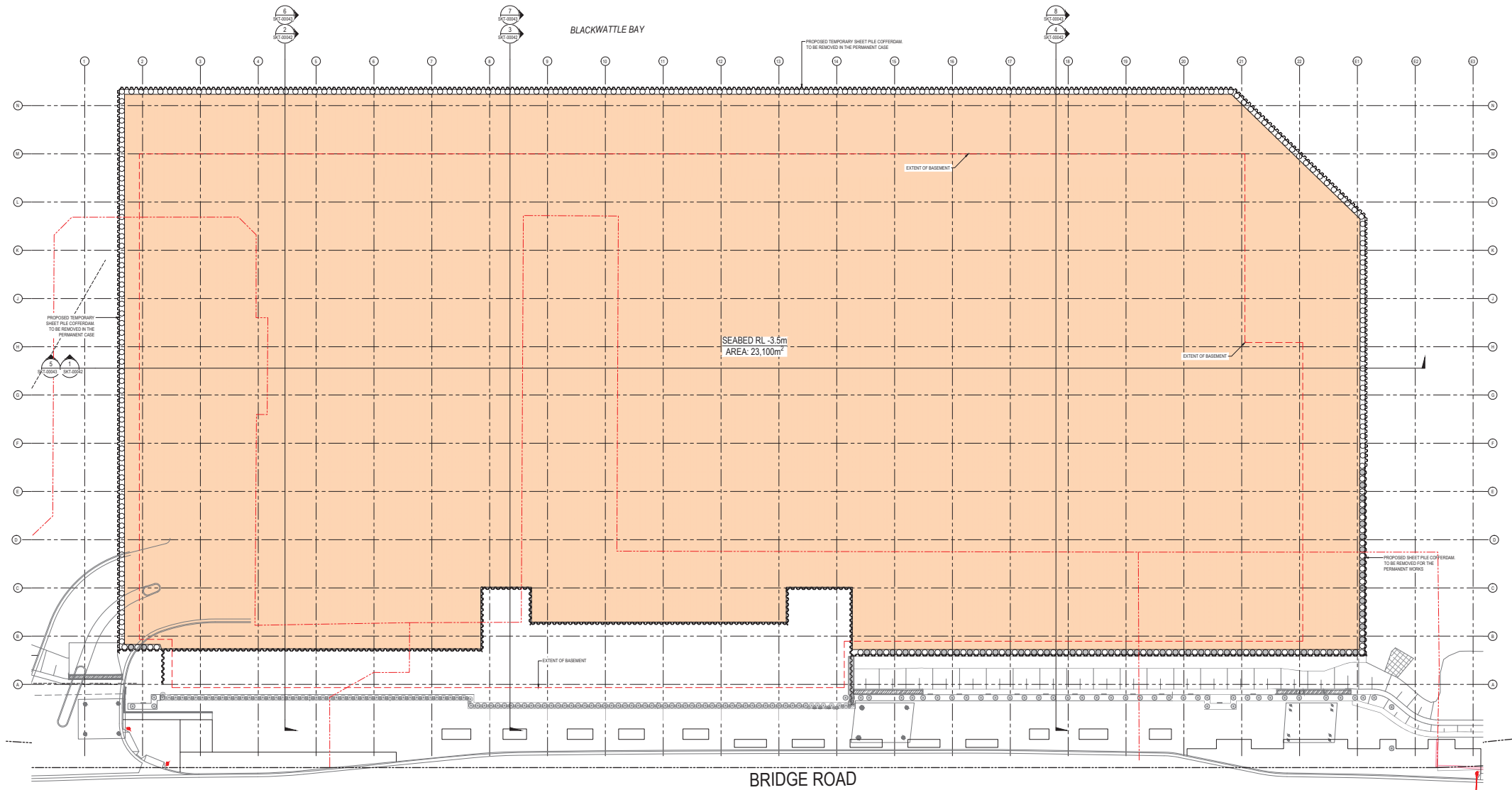
Coor. Sys. GDA 1994 MGA Zone 56

**1A-1C Bridge Road
Glebe, NSW**

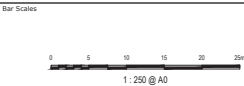
SITE LOCATION

FIGURE 1

Attachment 2 - Cofferdam Area



2	ISSUED FOR INFORMATION	24-11-21
1	ISSUED FOR INFORMATION	08-10-21
Issue	Description	Date



THIS DRAWING CANNOT BE
COPIED OR REPRODUCED IN
ANY FORM OR USED FOR ANY
OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

MULTIPLEX

Scales	1:250	Drawn	PKK
Grid	MGA56 (GD494)	Designed	
Height Datum	AHD	Checked	
		Approved	

Project	SYDNEY FISH MARKETS
Title	COFFERDAM PROFILING PLAN

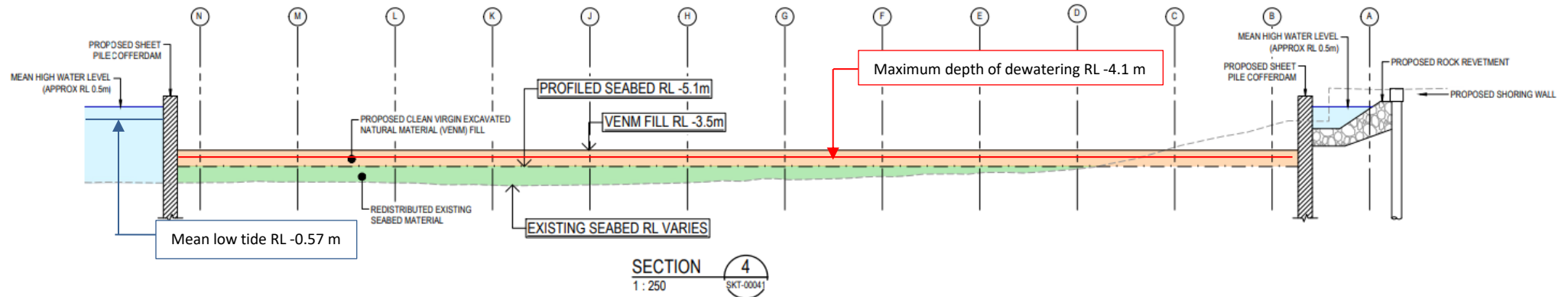
Civil Engineers and Project Managers	at&l	Status	FOR INFORMATION NOT FOR CONSTRUCTION	A0
Level 7, 100 Market Street North Sydney NSW 2060 ABN 55 130 162 455 Tel: 02 9439 7777 Fax: 02 9439 1055 www.atl.net.au info@atl.net.au	AT&L Project	AT&L Project	AT&L Project	Issue
	AT&L Project	AT&L Project	AT&L Project	2

Attachment 3 - Cross Section of Cap and Relative Water Levels

Sediment Capping – Environmental Assessment
New Sydney Fish Market
Proposed Dewatering Cross Section



Figure A¹ – Mark up of relative water levels



¹Drawing adapted from Multiplex Drawing No. ATL-CV-SKT-00042, issue 2 dated 24 November 2021, as presented in Attachment B of Senversa (2022) *Sediment Capping – Environmental Assessment, New Sydney Fish Market* (S18417_029_LET_Rev6, dated 15 February 2022). Drawing not to scale.