

Port Botany CCC

Minutes

Meeting #47

Tuesday 13 May 2025

5:30pm – 7:00pm

[Online via Zoom](#)

Meeting ID: 86963357856

Passcode: 542723

| Invitees  |   |
|---|---|
| <b>Community Members</b><br>Charles Abela (CA)<br>John Burgess (JB)   | <b>NSW EPA</b><br>Steven Tan (ST)<br>Mark Jansons (MJE)<br>Nathan Eager (NE)<br>Rajesh Mottey (RM)                        |
| <b>Local Government</b><br>Bronwyn Englaro - Randwick Council (BE)<br>David Smith - Bayside Council (DS)  | <b>Port Authority of NSW</b><br>Nerida Green (NG)   |
| <b>Business Representatives</b><br>Michael Jennings - Quantem (MJQ)<br>Scott Eadie - DP World (SE)<br>Jennifer Stevenson - Hutchison Ports (JS)<br>Natalie Cerda - Patrick (NC) | <b>NSW Ports</b><br>Bryan Beudeker (BB)<br>Jonathan Lafforgue (JL)<br>Matt Johnston (MJP)                                 |
|   | <b>Quayline Extension</b><br><b>Project Team</b><br>Peter Hynd (PH)<br>Chris Gorman (CG)<br>Julia McLean (JM) Ethos Urban |
|   | <b>Independent Chair</b><br>Roberta Ryan - Independent Chairperson (RR)   |

|  |   |
|--|---|
|  | <p>Zoey Mackey-Craig - Minute taker (ZMC)</p> <p><b>Apologies</b></p> <p>Peter Fagan (PF) Community Member</p> <p>Greg Walls (GW) NSW Ports</p> <p>Karen Jones – Opal (KJ)</p> <p>Jos Kuster – Ampol (JK)</p> <p>Alan Chambers – Vopak (AC)</p> <p>Creagh Debrabander – Elgas (CD)</p> <p>Paul Pickering (PP)</p> |
|--|---|

## Agenda Items

### Commencement

1. Welcome, apologies, and introductions
2. Approval of previous minutes

Prof Roberta Ryan (RR) invited John Burgess and Bryan Beudeker to provide confirmation of the previous minutes.

JB and BB both advised they have reviewed the minutes and are happy to sign off.

RR moved to the Government/Community Member Updates item on the Agenda so that Steven Tan from EPA could provide his update before needing to drop off the call.

### Matters arising

#### Matters arising from the previous meeting (Meeting 46) held on the 26<sup>th</sup> February 2025

1. BB to contact TfNSW to enquire as to whether they are responsible for the maintenance of Foreshore Road (which has been experiencing flooding on its southern side due to dumping of bush material and improper drainage). BB will seek TfNSW's input about the maintenance of the road in the case that it is their responsibility.  
BB has reached out to TfNSW and will continue to seek their updates about the road maintenance.

Bryan Beudeker (BB) advised that he is still liaising with TfNSW on this issue, but that the action can now be closed out. Bryan will provide any information made available from his contact in the future.

#### Matters arising from this meeting (Meeting 47) held on the 13<sup>th</sup> May 2025

**New Item 1:** Hutchinson Ports to present at the August CCC meeting.

Responsible: Jennifer Stevenson (JS)

Due: 12 August 2025

**New Item 2:** Matt Johnston to connect with David Smith to consider media and education opportunities regarding positive impact of Gross Pollutant Traps (GPTs) in Bunnerong Canal.

Responsible Matt Johnston (MJ) NSW Ports, David Smith (DS) Bayside Council

Due: 3 June 2025

**New Item 3:** Determine if life buoys found in Gross Pollutant Traps (GPTs) in Bunnerong Canal have ANSA branding/stamps on them and advise John Burgess of outcome, via CCC.

Responsible: Bryan Beudeker (BB) NSW Ports

Due: 3 June 2025

**New Item 4:** Port Authority to provide a definitive response to the following questions to John Burgess and the broader CCC:

- Would the Port Authority reconsider monitoring birds in the estuary, and look at if the bird sanctuary is actually effective.
- Would the Port Authority recommence the reintroduction of sea grass monitoring, the program which stopped several years ago.

Responsible: Nerida Green (NG) Port Authority of NSW

Due: ASAP

**New Item 5:** Follow-up with Transport for NSW Maritime Division regarding damage to seawall in Yarra Bay.

Responsible: Bryan Beudeker (BB) NSW Ports

Due: ASAP

**New Item 6:** Investigate and provide feedback to the CCC on possible causes of the fish kill reported on Foreshore Beach.

Responsible: Rajesh Motty (RM) NSW EPA

Due: 3 June 2025

## Presentations

### Quayline Extension Project Team – project update

Peter Hynd and Chris Gorman presented the slides ([attached to the minutes](#)).

#### **Project Update:**

- Extension of the southern side of Brotherson Dock to equalise it to 1250 meters, consistent with Patrick's and Hutchison.
- Construction of a replacement bulk liquids berth (BLB3) to replace BLB1, which is necessary to maintain operations during construction.
- A new operations control building will be associated with the new berth and BLB2, and operations will remain consistent with the current master plan in Brotherson Dock.
- Identified locations for launching barges (waterside access) and landside construction activities.
- Assessment covers various options for construction locations, considering traffic, noise, and ecology. The aim is to assess potential impacts broadly across the port area.

### **Technical Assessments in EIS**

- Scoping report lodged, and Secretary's environmental assessment requirements received in February 2025.
- The aim is to lodge the EIS in June, with Ministerial determination expected by the end of the year.
- Detailed assessments are underway for contamination, coastal process, water quality, marine ecology, noise and vibration, hazard risk, and Aboriginal heritage.
- Standard assessments will cover air quality, odour, traffic and transport, landscape and visual, aviation waste, resource, social, and cumulative impact.
- The assessments primarily focus on construction impact due to the project not inducing additional demand or changing existing port operations

### **Community and Stakeholders**

Julia McLean (JM) provided an update on Community and Stakeholders.

- Comprehensive communication and engagement process was undertaken, but feedback was limited.
- Notifications were sent to over 7,000 residents and businesses, and a survey was conducted for the social impact assessment.
- A community drop-in session was hosted, which four locals attended.
- A project information webinar had registrants but no attendees.
- Stakeholder meetings were held with State Government agencies, the Transport and Logistics Task Force, Sydney Airport, EPA, NSW Fisheries, and the Land Council.
- Feedback received concerned project delivery, minimising disruptions, noise and vibration impacts, dredging activity, contamination risk, flora and fauna protection, and community

### **Hydrodynamics and coastal processes**

Peter Hynd provided an overview of the Hydrodynamics and coastal processes

- Numerical modelling of wave climate, tidal movements, shoreline morphology, and flushing

times was conducted, including dredging in the berth box. Document review of historic wave and tidal data was validated with the Ports Authority.

- Dynamic assessments were executed to identify results on a bay wide scale, with 100 dynamic points analysed, and dredging spill simulations were performed.
- Findings indicate small to negligible changes to the environment are expected.
- Manly Hydraulics Lab was engaged to peer review the modelling work, and concluded the modelling is adequate to evaluate potential impacts.
- DS noted that and acknowledged that there was the longer term work required across the bay (while discussed, not exclusive to the PBQEP and more related to the point about council's infrastructure being damaged again in the recent storm event) and that council was pleased that we had the peer review done by MHL and they looked forward to receiving it.

#### **Contamination – preliminary site investigations**

- 7 locations sampled (5 in dock) for metals, PFAS, TRHs, BTEX, PAHs, TBT, TOC, OC/OP, PCBs.
- No PFAs detected in sediment. Known contaminants include TBT and minor exceedances of metal, as expected.
- Risk from industrial land is considered low.
- An EPA-accredited site auditor will review the assessment and all this information will be packaged up and shared.

#### **Marine ecology**

- Systematic mapping was done throughout a 13 square kilometer study area. Underwater noise and terrestrial surveys and assessments are being conducted.

##### *Findings:*

- The reclamation area covers an area of soft sediment, which is Type 3 Key Fish Habitat.
- Underwater noise contours will require safety and shutdown zones.
- Water quality is likely only to be impacted within the dock itself.
- No significant impacts to migratory birds, shorebirds, seahorses, or marine mammals are expected.

#### **Airborne construction noise**

- Attended monitoring was conducted at three sites covering the three catchments, covering Botany, Matraville and La Perouse
- Piling for BLB3 will be monitored and respite periods provided as necessary.
- Dredging is the only activity expected to occur outside normal construction hours, with some exceedance possible in NCAs 2&3 but no highly affected residents at night.

#### **Next steps in finalising the EIS**

- Consultation with NSW Gov working groups
- Finalising EIS for lodgment – targeting June 2025
- Public exhibition of proposal, for a minimum of 28 days

- Updates will be provided regularly to this group.

JB raised questions regarding the dredging and reclamation area, wave energy and potential fish spawning areas.

#### ***Dredging and reclamation area***

PH advised that the Dredging will occur within the Brotherson Dock area, to deepen the port for to install scour protection to high risk areas for the longer vessels and with approx. 600,000 cubic meters of material to be used in the reclamation.

#### ***Wave energy***

JB indicated ongoing concern about wave energy travelling across Botany Bay and bouncing off Molineux Point and impacting Botany Bay as a whole. Further, JB noted that recent storm events caused significant damage along Botany Bay foreshore, including residential flooding and destruction of foreshore infrastructure recently restored in the vicinity of Dolls Point at considerable cost to Bayside Council and the NSW government. JB raised concerns about the long-term impacts of existing and proposed port development and dredging on wave energy and coastal erosion. JB stated that there is a need to find a way to mitigate the problem of repeated damage from wave energy, rather than continuously spending money on repairs.

#### ***Fish spawning area***

JB enquired as to if the area that will be reclaimed is serving as a fish spawning area, if yes, indicated that there could be a need for organisations in the fishing community to seek compensation for what may be seen as losses.

PH noted any loss of habitat would be addressed through assessment process with NSW Fisheries.

DS advised that Council would like to see the analysis and peer review at the appropriate time, accompanying the EIS.

### **Gross Pollutant Trap – presentation**

Bryan Beudeker (BB) provided a short presentation ([attached to these minutes](#)) regarding the Gross Pollutant Trap (GPT), also referred to as a “litter trap” in Bunnerong Canal which was installed in July 2024.

- The GPT Stormwater Catchment Area is 1008.17ha, extending toward South Coogee. In 10 months, 200kg have been collected, with services occurring after each deluge.
- Some of the litter collected includes life buoys, plastic bottles and footballs.
- There seems to be a reduction of floating rubbish in Brotherson Dock. Updated will be shared every 6-12 months.

David Smith DS indicated interest from Bayside City Council in the catchment project and may want to share the information with their stormwater and environment teams. DS suggested there is the potential for public communication and education around the successful project.

JB enquired into the branding on the buoys caught in the GPT, as some have gone missing from the Australian National Sportfishing Association (ANSA).

Action Item 2: Matt Johnston to connect with David Smith to consider media and education opportunities regarding the positive impact of Gross Pollutant Traps (GPTs), such as the one in Bunnerong Canal.

Responsible Matt Johnston (MJ) NSW Ports, David Smith (DS) Bayside Council Due: 3 June 2025

Action Item 3: Determine if life buoys found in Gross Pollutant Traps (GPTs) in Bunnerong Canal have Australian National Sportfishing Association (ANSA) branding/stamps on them and advise John Burgess of outcome, via CCC. Responsible: Bryan Beudeker (BB) NSW Ports

Due: 3 June 2025



## Business Representatives Updates

1. **DP World update – SE**

Scott Eadie provided an update on behalf of DP World. Commissioning 12 new forklifts (up to 40 tonnes) and 10 internal transfer vehicles. Replacing older, less fuel-efficient machines to reduce noise emissions and fuel usage. In response to a question regarding the noise from reversing alarms, SE advised that reversing “quackers” weren’t an option on the forklifts, but the alarm volumes are adjustable and will be monitored.

2. **Patrick Terminals update – NC**

Natalie Cerda noted that it was business as usual for Patrick Terminals, no updates to provide.

3. **Hutchison Ports update – LM**

Jennifer Stevenson advised there were no updates for this meeting and Hutchison Ports would present to the CCC at the August meeting.

Action Item 1. Hutchinson Ports presentation to be provided at August CCC meeting.  
Responsible: Jennifer Stevenson,  
Due: 12 August

4. **Opal – KJ**

Apologies for this meeting. No update.

5. **Elgas– CD**

Apologies for this meeting. No update.

6. **Ampol – JK**

Apologies for this meeting. No update.

7. **NSW Ports– JL**

Jonathan Lafforgue advised that the port is operating as normal, with consistent volumes. There were some delays in late March/early April due to weather, but no infrastructure damage. Rail volumes continue to be strong. Other than delays caused by the significant weather event, nothing to note.

8. **Quantem – Michael Jennings**

Michael Jennings (MJQ) thanked Roberta for her welcome to the Committee. MJQ joined Quantem six months ago as Chief HSE Officer.

## Government/Community Member Updates

1. **Randwick City Council update – BE**

No updates.

2. **Bayside Council update – DS**

No updates other than discussed elsewhere in the Agenda.

3. **EPA update – EB/RM**

Steven Tan provided an update on behalf of EPA.

- EPA notes there was an action from Meeting 46 of the CCC, 26 February 2025, regarding PFAS sampling locations in Botany Bay in January.
- The sampling was in response to signage around Tower Beach and the airport. This sampling targeted a specific issue, hence why the Yarra Bay was not sampled for PFAS. The results from this testing have been made available online.

#### **4. Port Authority of NSW– NG**

Nerida Green (NG) provided an update on maintenance for the Port Authority

- Routine maintenance inspection of the foreshore boat ramp identified some erosion damage, which has been made safe.
- Maintenance has been performed on toilets, landscaping, and the removal of sand from the stormwater channel.
- The cleaning of the jetties is scheduled for winter.
- The community grants program has been launched, targeting local port community projects.

JB raised several questions:

- Would the Port Authority reconsider monitoring birds in the estuary, and look at if the bird sanctuary is actually effective.
- Would the Port Authority recommence the reintroduction of sea grass monitoring, the program which stopped several years ago.
- Additionally there is follow up needed to the damage in the wall at Yarra Bay.
- NC noted that Transport for New South Wales Maritime Division is aware and planning corrective action.

Action Item 4: Port Authority to provide a definitive response to the following questions to John Burgess and the broader CCC:

- Would the Port Authority reconsider monitoring birds in the estuary, and look at if the bird sanctuary is actually effective.
- Would the Port Authority recommence the reintroduction of sea grass monitoring, the program which stopped several years ago.

Responsible: Nerida Green (NG) Port Authority of NSW

Due: ASAP

Action Item 5: Follow-up with Transport for NSW Maritime Division regarding damage to seawall in Yarra Bay.

Responsible: Bryan Beudeker (BB) NSW Ports

Due: ASAP

Action Item 6: Investigate and provide feedback to the CCC on possible causes of the fish kill reported on Foreshore Beach.

Responsible: Rajesh Motty (RM) NSW EPA

Due: 3 June 2025

#### **5. Community member updates**

Charles Abela raised a noticeable increase in parking. This may be due to no parking allowed in ANZAC parade medium section. This issue is known and being managed by relevant authorities.

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## Environmental Update

### 1. Summary of complaints and incidents – BB

BB detailed three incidents:

- 11<sup>th</sup> March a crew member from a vessel experienced severe sea sickness. On departure from the vessel it was identified the person was very unwell, first aid was called, and CPR was provided for a period. This person has recovered and has been flown home.
- 6<sup>th</sup> March an intoxicated person was identified roaming through Port area. Police were called to assist in taking the female home as she had no phone battery or money.
- There was a vehicle accident on site a week ago, which was dealt with on site, no injuries.

BB provided an overview of complaints:

- 15 individual complaints, 7 related to one vessel on separate visits. This vessel is a regular visitor and is due back at the end of this month. Previously no noise complaints have been received, however it has incurred several complaints on last two visits. Investigation will be conducted as to what may have changed to be causing this.
- 8 other general complaints from residents. Most of these are “observational”, meaning a resident has sent a text message to BB rather than reporting a formal complaint. Follow-up is made on all complaints received, and often there are not multiple complaints about the same issue. Personal factors like head colds or trouble sleeping can often affect how individuals perceive noise.
- An annual update was provided to the Matraville Precinct Residents Committee on 10 March, with 50-60 people in attendance.

Noise monitoring:

- Objective noise measurements from ships will be taken using cranes to monitor shifts individually. DP World and Hutchinson Ports have offered their assistance with this trial noise monitoring project moving forward.
- The aim is to be able to provide feedback to ships about their noise levels and encourage them to consider noise levels when chartering certain ships.
- New Zealand has been using a similar system for two years, with positive results, and they are sharing data with the Port to assist.

### 2. Port Botany Expansion Rail Noise (as per CoA 2.28) – BB

There are no reported issues regarding rail noise.

### 3. Biosecurity – BB

There have been no significant biosecurity issues in New South Wales, but ongoing monitoring continues. BB attended the NSW Marine Pest Working Group meeting last week.


**Other Business**

- Randwick City Council is seeking \$100 million to upgrade the cultural center at La Perouse, which may increase tourist bus traffic.

**Next Meeting**

Date: Tuesday 12 August Time: 5:30pm – 7:00pm Location: Online, Zoom

Actions update:

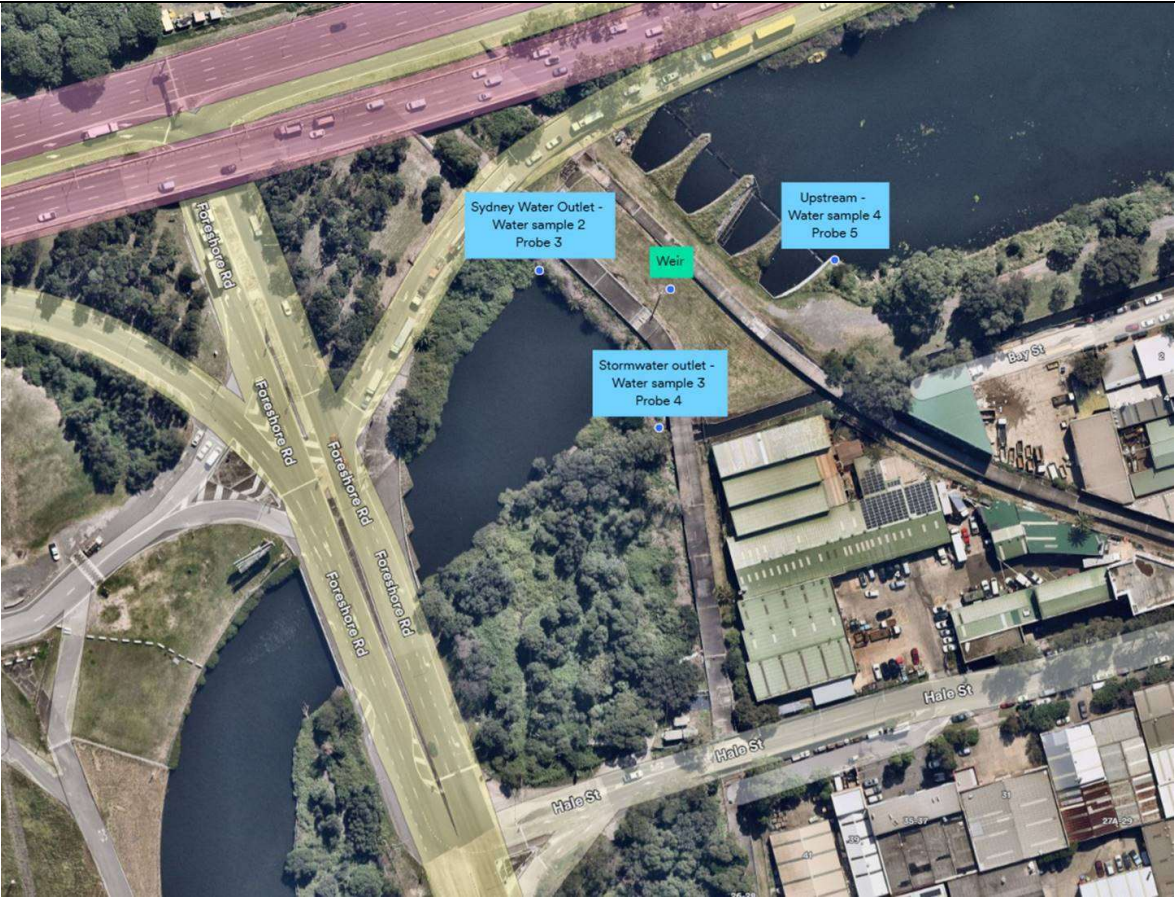
| Item #  | Update  |
|---|---|
| <p><b>New Item 6:</b><br/>Investigate and provide feedback to the CCC on possible causes of the fish kill reported on Foreshore Beach.</p> <p>Responsible: Rajesh Motty (RM)<br/>NSW EPA<br/>Due: 3 June 2025</p> | <p><b>Provided 02/06/2025 by Nathan Eagar, Operations Officer West Metro Operations, NSW EPA</b></p> <p>As per EPA's action arising in the draft minutes for meeting 47 of the Botany Community Consultative Committee, please see below update on the recent fish kill that occurred along Foreshore Beach and within Mill Stream in Port Botany on 7 April 2025.</p> <p>The EPA's investigation, which included site inspections, water and biota sampling, and dissolved oxygen readings did not provide evidence of a clear cause for the fish kill. Based on the water quality results and officer observations at the time of the incident, the EPA has determined that the most likely cause of the fish kill was a sharp, unexplained drop in dissolved oxygen levels within Mill Stream.</p> <p>As part of the investigation, the EPA conducted water quality sampling and collected fish specimens in areas along Foreshore Beach and Mill Stream (see Figures 1-3 attached to this email). A summary of in-situ dissolved oxygen readings provided as follows:</p> <ol style="list-style-type: none"><li>1. Foreshore ramp – 120%</li><li>2. End of Foreshore beach at pipe outlet – 108%</li><li>3. Near Sydney Water overflow outlet – 99%</li><li>4. Stormwater outlet – 95%</li><li>5. Upstream of weir – 104%</li></ol> <p>Further, biota sampling did not report pesticides above laboratory Limits of Reporting (LOR) within fish samples taken during/immediately following the incident.</p> <p><b>Figure 1 Sampling locations (distance map)</b></p>  |



**Figure 2 Sampling locations at Foreshore Beach**



**Figure 3 Sampling locations at Mill Stream weir**





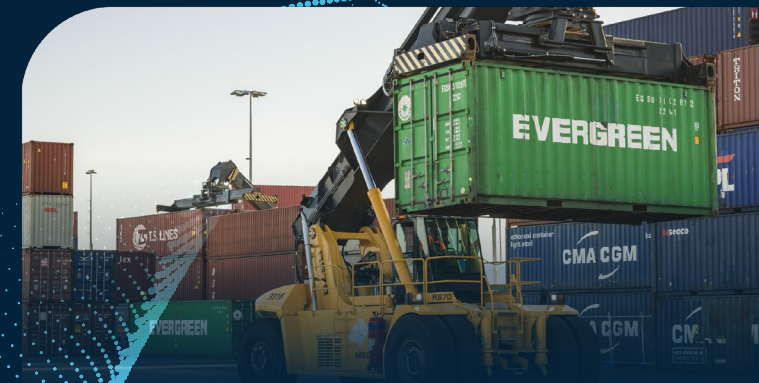
# PORT BOTANY QUAYLINE EQUALISATION

PROJECT UPDATE

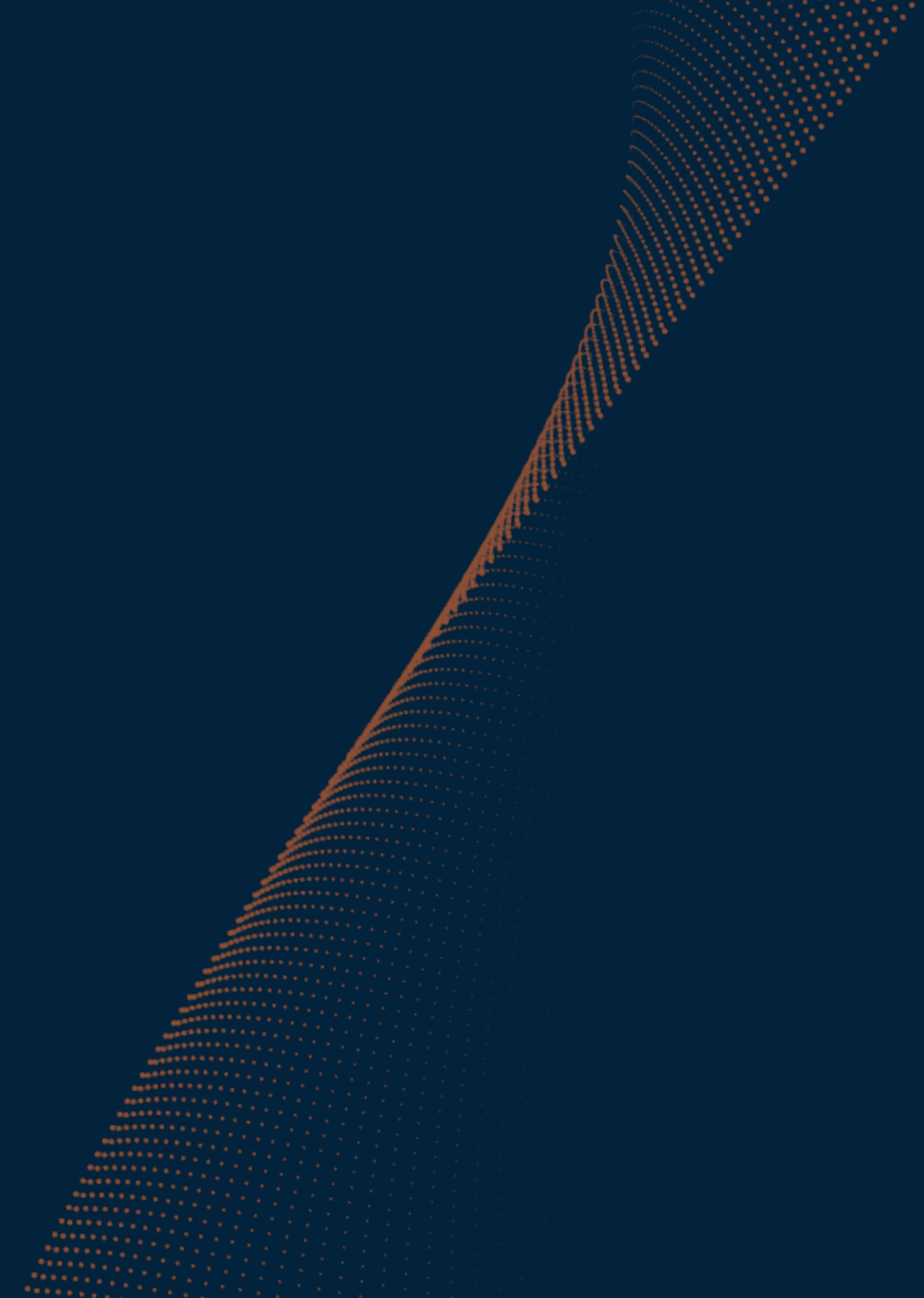
COMMUNITY CONSULTATIVE COMMITTEE

MAY 2025

**nswPorts**



# Agenda

- Project update
  - Community and stakeholder engagement
  - Technical studies
  - Next steps
- 
- A decorative graphic consisting of a series of concentric, curved lines made of small orange dots, forming a fan-like shape that originates from the bottom left and extends towards the top right corner of the slide.

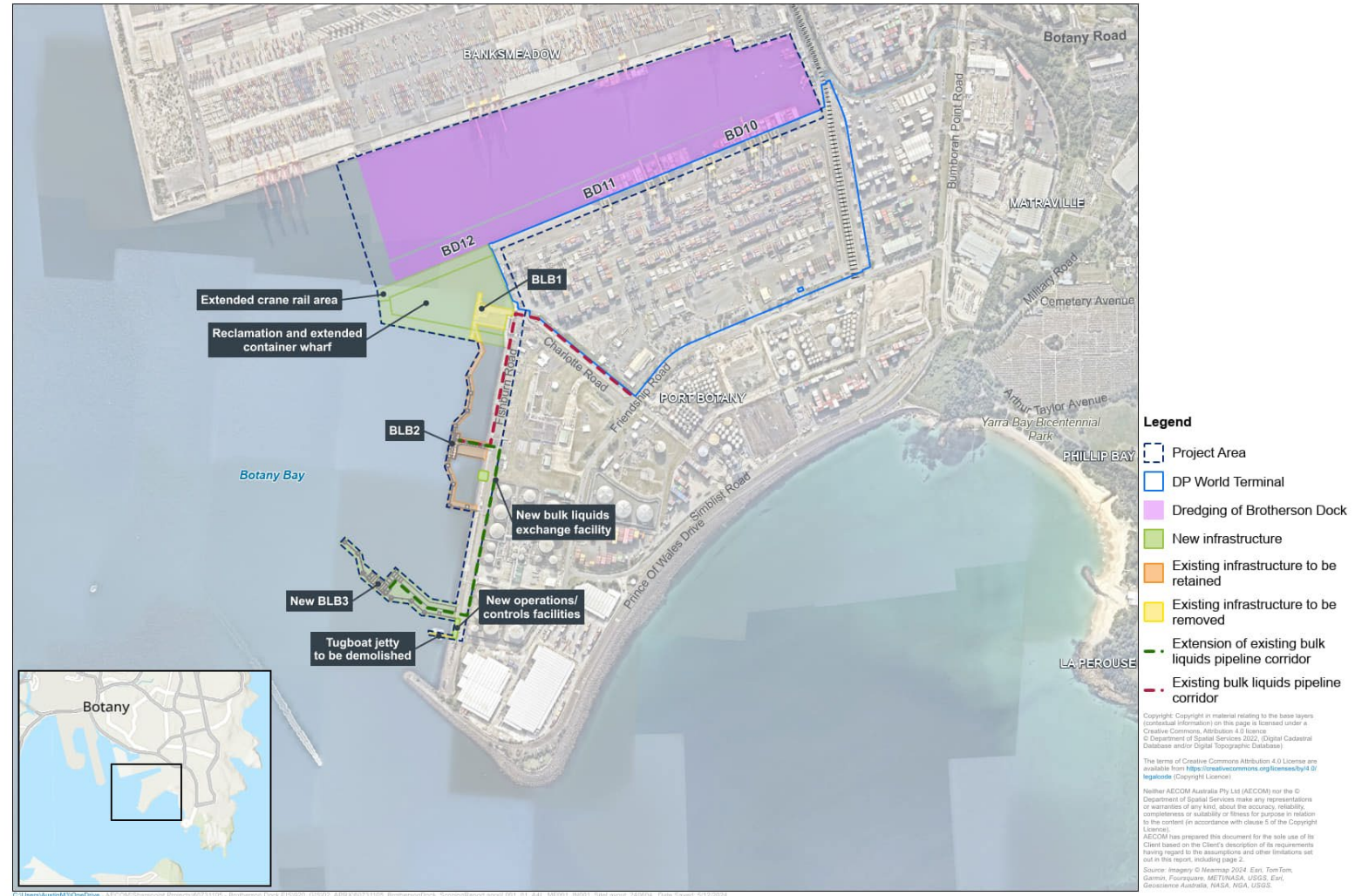
# PROJECT UPDATE



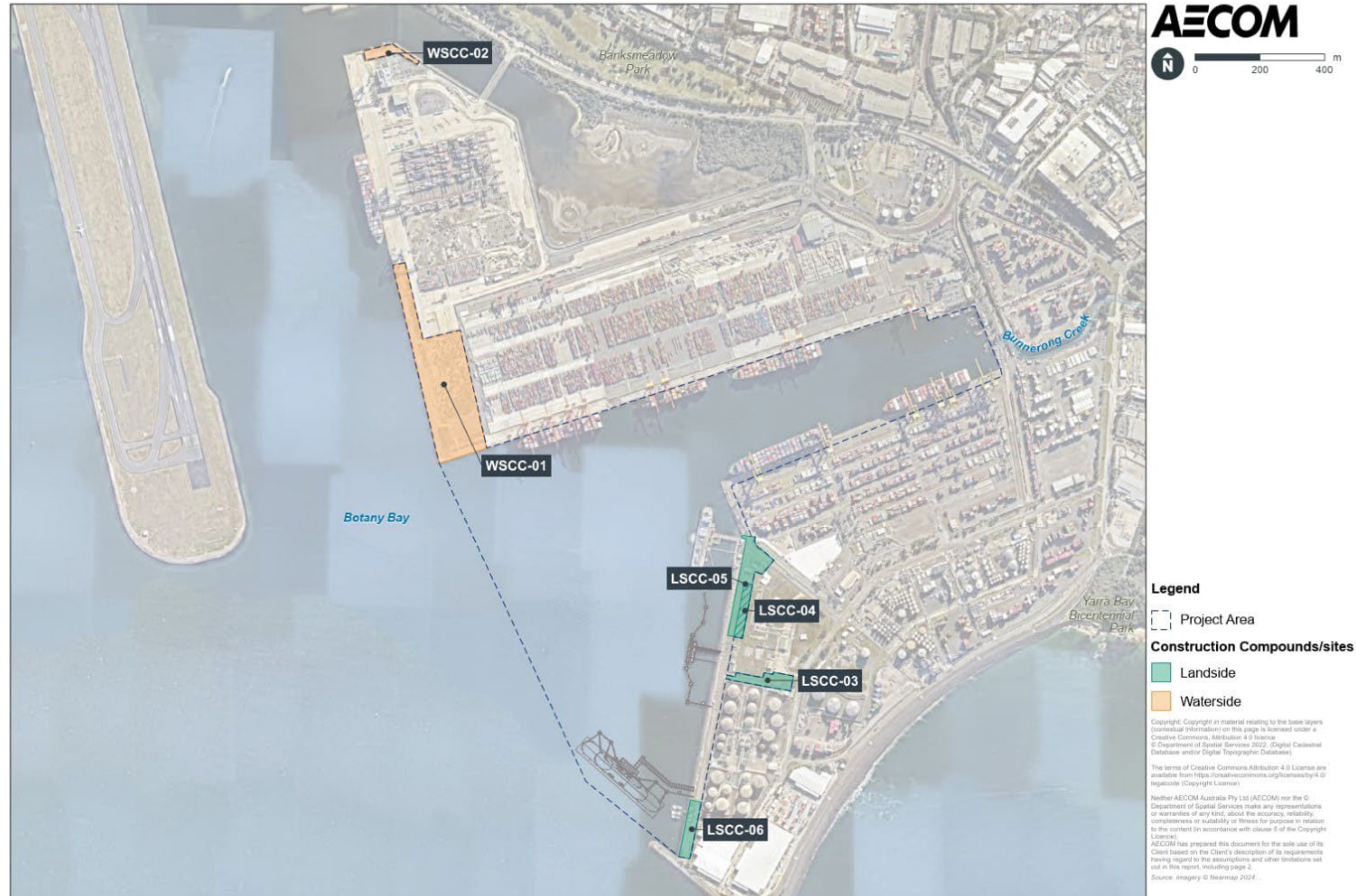


# Project overview

- Construction of an extended quayline on the southern side of Brotherson Dock.
- Construction of a new BLB3 south of BLB2 including installation and commissioning of pipeline infrastructure.
- Demolition and removal of the existing BLB1 and associated pipeline infrastructure.
- New bulk liquid operations control building.
- Operations consistent with current operation and Masterplan.



# Project area



# Program overview



## Technical assessments in EIS

| Detailed assessments | Standard assessment     |
|----------------------|-------------------------|
| Contamination        | Air quality and odour   |
| Coastal processes    | Traffic and transport   |
| Water Quality        | Landscape and Visual    |
| Marine Ecology       | Non-Aboriginal heritage |
| Noise and vibration  | Aviation                |
| Hazards and Risk     | Waste and resource use  |
| Aboriginal heritage  | Social                  |
|                      | Cumulative              |
|                      |                         |

Focus is on the construction assessment, operational assessment is limited



# COMMUNITY AND STAKEHOLDER ENGAGEMENT



# Community & stakeholder engagement

## ACTIVITIES UNDERTAKEN

### Community engagement

- Community factsheet – letterbox dropped to 7,000+ residents and businesses and direct outreach to local clubs
- Social impact assessment survey
- Community drop-in session
- Project information webinar

### Stakeholder engagement – government and industry

- NSW Government agency working groups
- Briefings to local councils, Port Transport and Logistics Taskforce, Sydney Airport, the EPA, NSW Fisheries, La Perouse Local Aboriginal Land Council



# Community & stakeholder engagement

## KEY FEEDBACK

- Noise and vibration impacts
- Dredging, water quality, coastal processes, and contamination risk
- Biodiversity and ecology protection
- Impacts to port operations – importance of reducing impacts during construction
- Port Botany's role as a major stakeholder in the local community – opportunities for ongoing engagement

# KEY TECHNICAL STUDIES



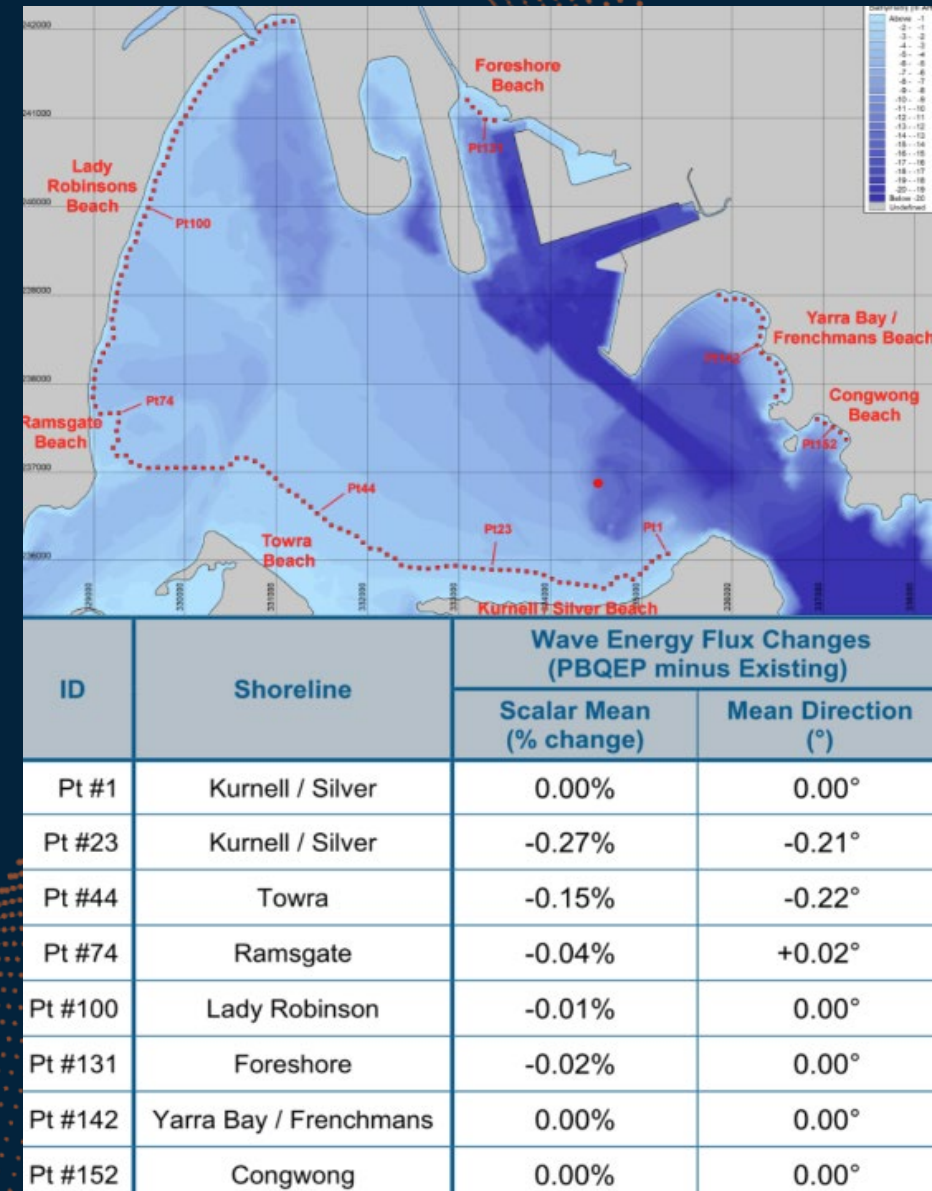
# Hydrodynamics and coastal processes

## APPROACH

- Numerical modelling of wave climate, tidal movement, shoreline morphology, flushing times, dredging spill.
- Extensive document review - wave and tidal data validated with Ports Authority.
- 100 dynamic assessments are executed to identify the results on a baywide scale.
- Dredging spill simulations.

## FINDINGS

- Small to negligible changes to environment.
- Slower flushing of water in Brotherson Dock.
- Dredging spill may occur within the project area, modelling indicates it will not spread further.
- Negligible impacts expected on sediment supply or pathways leading to beaches.
- Independent peer review by Manly Hydraulics Lab (MHL) concludes: ***Overall, MHL considers the DHI Seaport model is adequate to evaluate potential impacts as described.***



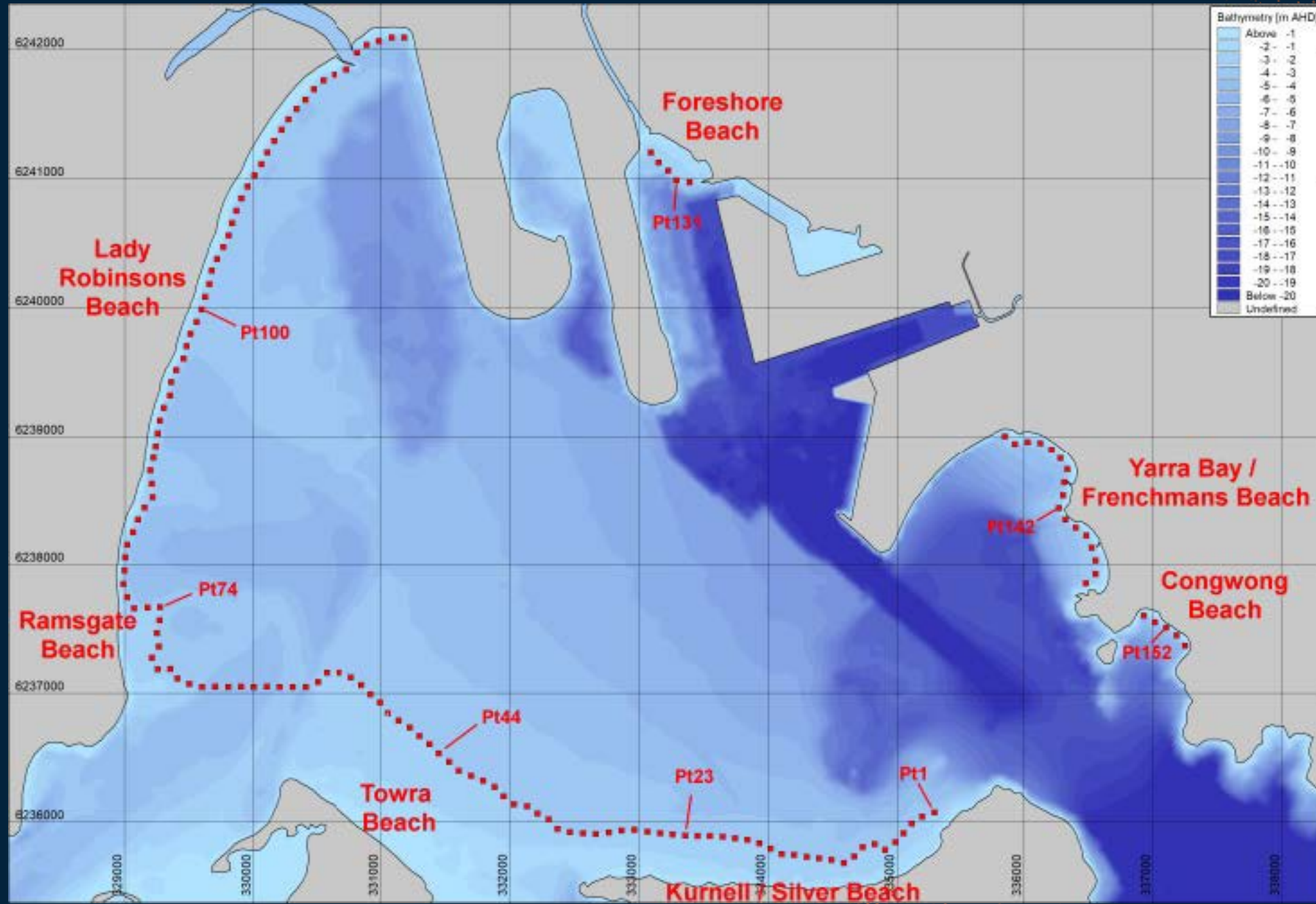


Figure 6-1 Detail of model bathymetry overlain with timeseries extraction points on -3m AHD contour along reaches of mobile shoreline.

Table 6-1 Changes to water level and currents along Botany Bay beaches, PBQEP minus Existing, as calculated over the indicative hindcast year as simulated in the 2D hydrodynamic model. Locations per Figure 6-1.

| ID      | Beach                  | Water Level Changes (m) |         |        | Current Speed Changes (m/s) |         |        |
|---------|------------------------|-------------------------|---------|--------|-----------------------------|---------|--------|
|         |                        | Min                     | RMS     | Max    | Min                         | RMS     | Max    |
| Pt #1   | Kurnell / Silver       | -0.0001                 | <0.0001 | 0.0003 | -0.0002                     | <0.0001 | 0.0001 |
| Pt #23  | Kurnell / Silver       | -0.0002                 | <0.0001 | 0.0003 | -0.0002                     | <0.0001 | 0.0003 |
| Pt #44  | Towra                  | -0.0001                 | <0.0001 | 0.0001 | -0.0003                     | <0.0001 | 0.0002 |
| Pt #74  | Ramsgate               | -0.0002                 | <0.0001 | 0.0001 | -0.0003                     | <0.0001 | 0.0002 |
| Pt #100 | Lady Robinson          | -0.0002                 | <0.0001 | 0.0001 | -0.0001                     | <0.0001 | 0.0001 |
| Pt #131 | Foreshore              | -0.0001                 | <0.0001 | 0.0002 | -0.0001                     | <0.0001 | 0.0001 |
| Pt #142 | Yarra Bay / Frenchmans | -0.0001                 | <0.0001 | 0.0002 | -0.0010                     | <0.0001 | 0.0006 |
| Pt #152 | Congwong               | -0.0001                 | <0.0001 | 0.0001 | -0.0008                     | <0.0001 | 0.0013 |



# Contamination – prelim. site investigations

## APPROACH

- Extensive review of historical investigations – informed the sampling plan.
- Sediment investigation in accordance with NSW EPA Contaminated Site Reporting Guidelines & Nat. Env. Protection Measures (2013).
- 7 locations sampled (5 in dock) for metals, PFAS, TRHs, BTEX, PAHs, TBT, TOC, OC/OP, PCBs, Dioxins.

## FINDINGS

- Known contaminants include TBT and minor exceedances of metals.
- No PFAS detected in sediment to be dredged.
- Contaminant bioavailability is not expected.
- Acid sulfate soils will be managed under a dedicated plan.
- Risk from industrial land is considered low.
- An EPA-accredited site auditor will review the assessment.



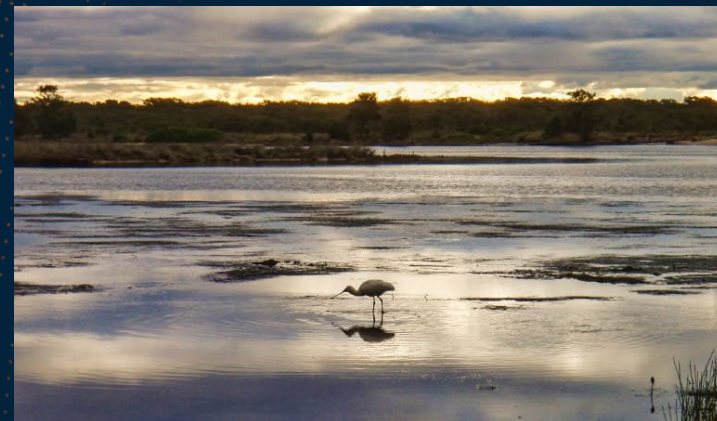
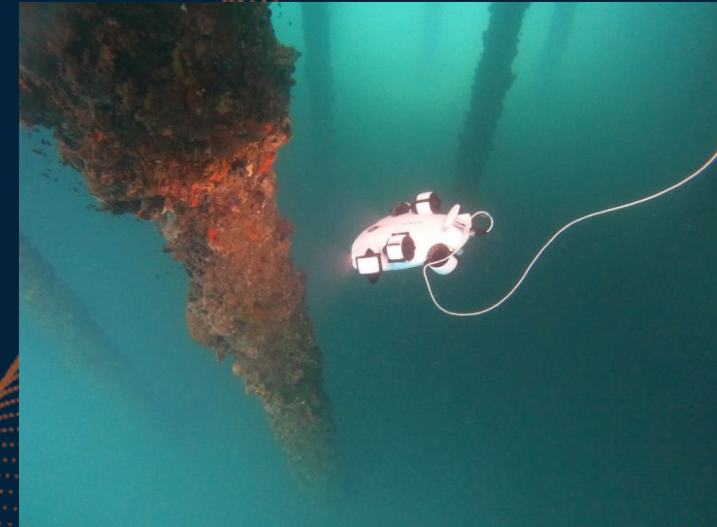
# Marine ecology

## APPROACH

- Systematic mapping throughout 13 km<sup>2</sup> Study Area.
- Benthic Infauna Grabs.
- Assessed 185 species/populations/communities. 117 are likely to occur in Study Area and received Assessments of Significance.
- Underwater noise potential impacts to marine ecology.
- Terrestrial surveys and assessment - bats, birds, vegetation.

## FINDINGS

- Reclamation covers area of soft sediment impacted which is Type 3 Key Fish Habitat.
- Underwater noise contours will require safety/shut down zones.
- Water quality is only impacted within Brotherson Dock. Some increased TSS (>10 mg/L) immediately outside of the Dock.
- No significant impacts to migratory birds, shore birds, seahorse or marine mammals.
- Negligible impact to special areas e.g., Foreshore Beach and Penhryn Estuary, Towra Point, Cape Banks, Silver Beach.





# Marine ecology





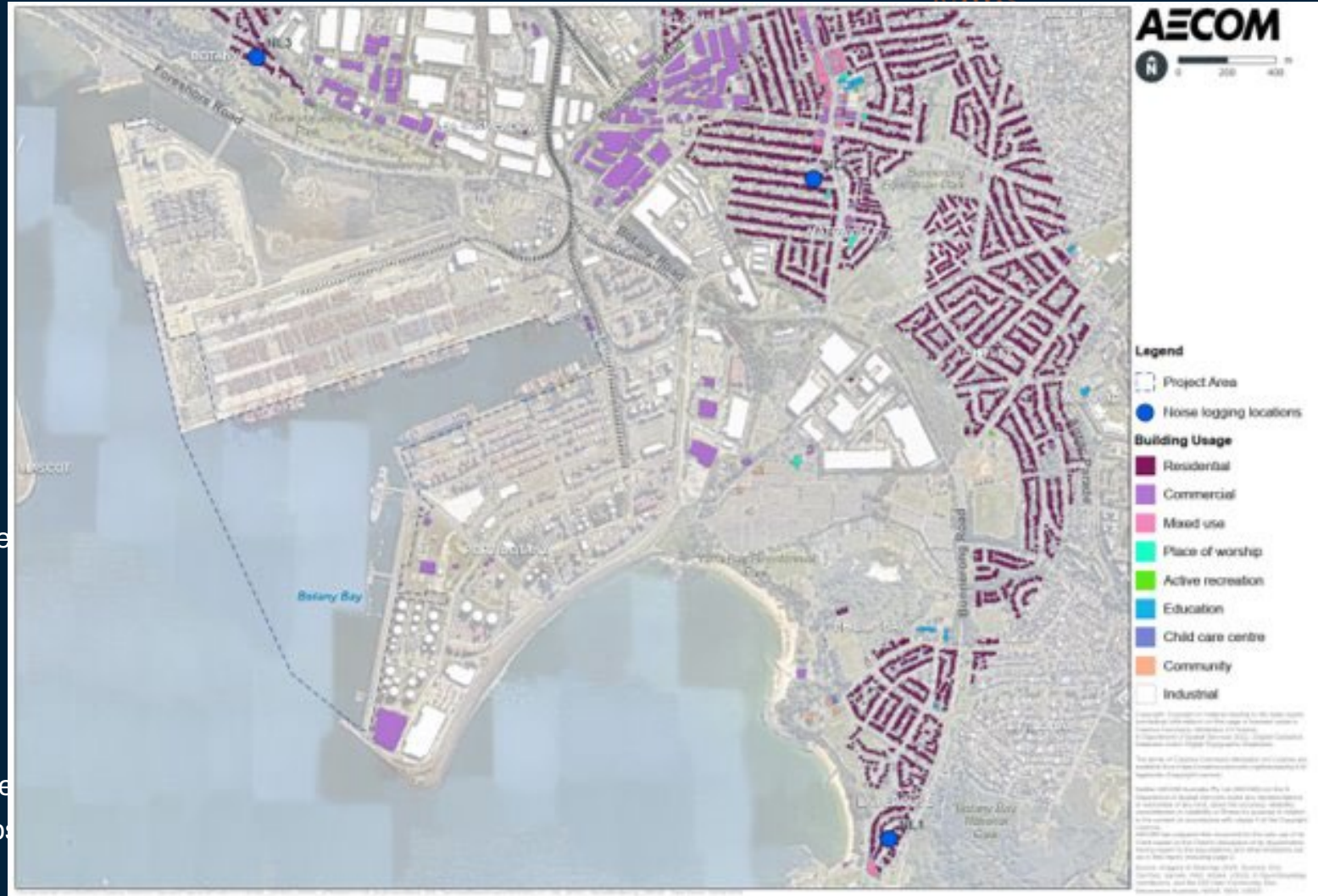
# Airborne construction noise

## APPROACH

- Attended monitoring at 3 sites covering 3 noise catchment areas.
- Test predicted noise levels to residential and community receivers.

## FINDINGS

- Day time noise minimal exceedances, none highly affected. Some effect of selected activities to BLB3 (piling).
- Piling for BLB3 will be monitored and respite periods provided as necessary.
- Only dredging expected to be done at night to manage around operations.
- Some exceedances possible in NCAs 2 & 3 but no highly affected residents at night.
- Operational vibration and noise impacts are unlikely, as equipment will be similar to existing types, sensitive receivers are over 1,000 metres away, and newer ships are typically quieter than older ones.



# NEXT STEPS



# Next steps

## FINALISING EIS

- Continuing consultation with NSW Government working group
- Finalising EIS for lodgement – targeting June 2025
- Public exhibition of proposal

## UPDATES

- Regular updates to PBCCC to be provided

# QUESTIONS

