

ATTACHMENT F

Flood Emergency Response Plan (FERP)

**Marsden Park new high school and
Melonba new primary school**

Prepared for School Infrastructure NSW / 14 February 2023

221021 / 221022

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Rev	Date	Prepared By	Approved By	Remarks
0	22/07/22	ML	TM	Draft
1	09/08/22	ML	TM	90%
2	09/08/22	ML	TM	SSDA
3	16/09/22	ML	TM	SSDA
4	19/01/23	ML	TM	SSDA
5	03/02/23	ML	TM	SSDA
6	14/02/23	ML	TM	SSDA

1.0 Introduction

This Flood Emergency Response Plan (FERP) has been prepared in support of the State Significant Development (SSD) 41372302 for the Marsden Park new high school and Melonba new primary school. The report has been produced in consultation with Blacktown City Council (BCC) and the State Emergency Services (SES) NSW.

1.1 Reference Documents

In preparation for this Flood Emergency Response Plan (FERP), the following documents were referred to:

- J Wyndham Prince Water Cycle & Flood Management Strategy Report, July 2013
- Blacktown City Council (BCC) Flood Advice Letter, 31 May 2022
- NSW Floodplain Development Manual 2005
- Hawkesbury-Nepean Valley Regional Flood Study 2019

1.2 Site and Surrounding Context

The proposed development consists the construction of two new schools, new high school in Marsden Park and new primary school in Melonba, located at 20 Kaluta Avenue and 10 Swallowtail Street, Melonba.

The site is located within the Central River City Precinct and Blacktown Local Government Area (LGA). The site is irregular in shape and is sited between two tributaries of Little Creek. The site is generally level but has a gentle fall from the south-eastern corner (RL23) to the north western corner (RL19.5) – refer **Figure 1.2**. The site contains no vegetation other than grass and is currently fenced to prevent unauthorised access.

To the north, east and south of the site is emerging and recently completed low density residential development comprising one and two storey dwellings. To the west of the site is an open space area (which serves a drainage function) and beyond this is Little Creek, a tributary to South Creek that flows north to the Hawkesbury River. Further to the south is an area zoned as B2 Local Centre, which has not yet been developed. To the north-west is a nominated water management facility identified as a bioretention basin and channel as outlined in the BCC Section 7.11 Contributions Plan N0.21- Marsden Park. The next phase of residential development in the area is located on the western side of Little Creek and is currently in the bulk earthworks phase to create the street network.



Figure 1.1 – Site Location

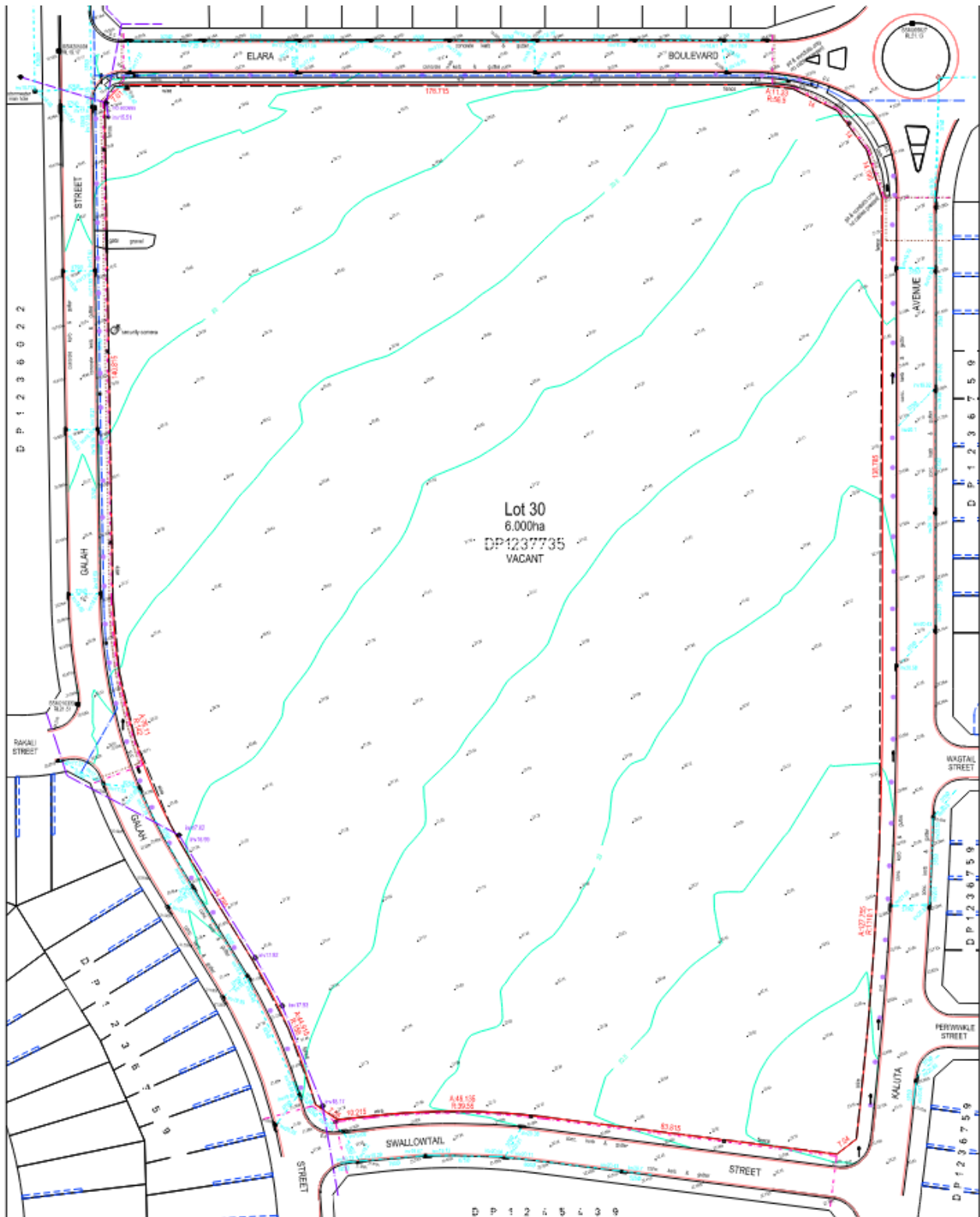


Figure 1.2 – Site Topography

1.3 Development Proposal

The proposed development consists the construction of two new schools, new high school in Marsden Park and new primary school in Melonba, located at Lot 30 DP1237735, Elara Boulevard, Melonba.

The current architectural concept site plan dated is shown in **Figure 1.3**.

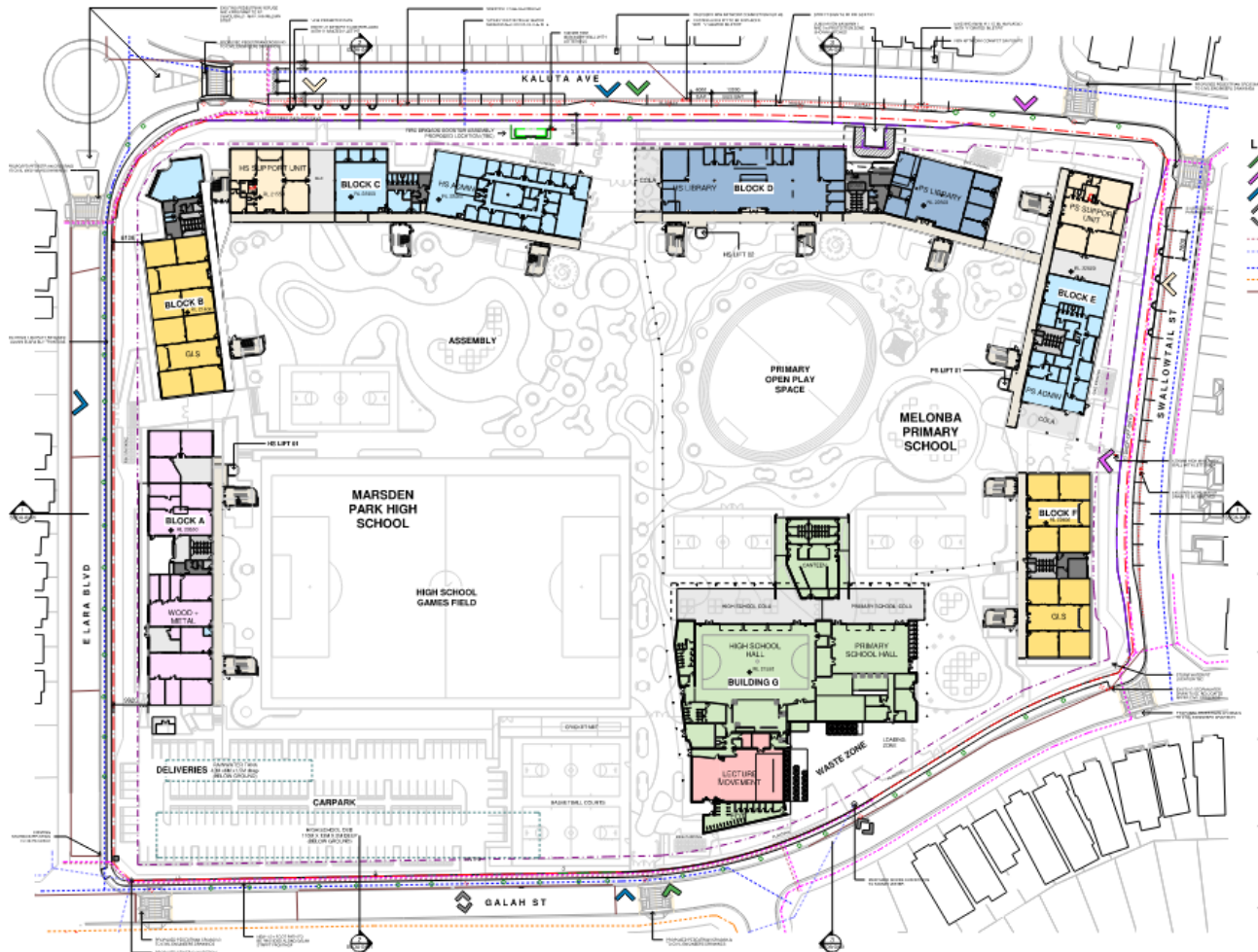


Figure 1.3 – Proposed Concept Site Plan (NBRs)

2.0 Flood Behaviour

2.1 Existing Conditions

2.1.1 Localised Flooding

A review of localised flooding associated with South Creek has been performed by J Wyndham Prince as part of a precinct wide Water Cycle and Flood Management Strategy Report dated July 2013 and supplemented in October 2020. The study identified the 1% AEP flood level adjacent to the north west corner of the site as 17.50m AHD. As part of the precinct planning, the site was filled which elevated minimum levels on site to 19.20m AHD as confirmed by consultation with Blacktown Council.

The site was concluded as not being flood affected during the 1%AEP flood event. There is local overland flows affecting the north west corner of the site during the PMF event.

A summary of the J Wyndham Prince flood levels relative to site are provided in **Figure 2.1** and **Figure 2.2** for the 1% AEP and PMF events respectively.



Figure 2.1 – J Wyndham Prince 1% AEP Flood Depths and Levels



Figure 2.2 – J Wyndham Prince PMF Flood Depths and Levels

2.1.2 Hawkesbury Basin Flooding

The site has been identified as subject to flooding associated with the Hawkesbury river basin. An application for Flood Advice letter was submitted to Blacktown City Council and determined that the flood levels for site lie at 17.3m for the 1% AEP and 26.4m for the PMF. This is supported by flood levels received from SES and the Hawkesbury-Nepean Valley Regional Flood Study 2019. As the minimum elevation of the site lies at 19.20m and therefore exceeds the 17.8m Flood Planning Level of the 1% AEP flood level plus 500mm freeboard, the site is not affected by flooding during the 1% AEP storm event. This is evident from the J W Prince flood study which Council has confirmed is current and reflects the subdivision earthworks levels, therefore additional flood modelling is not required.

Flood levels associated with the PMF will inundate the site with flood levels up to 26.4m AHD, submerging the site with floodwater depths between 3 and 7m sitewide. Additional flood models received from Infrastructure NSW were also used in preparation of this FERP and have been included as part of a Supplementary Flooding Report. An overview of the site location relative to the PMF is outlined in the SES Hawkesbury-Nepean Flood Risk map as outlined in **Figure 2.3**.

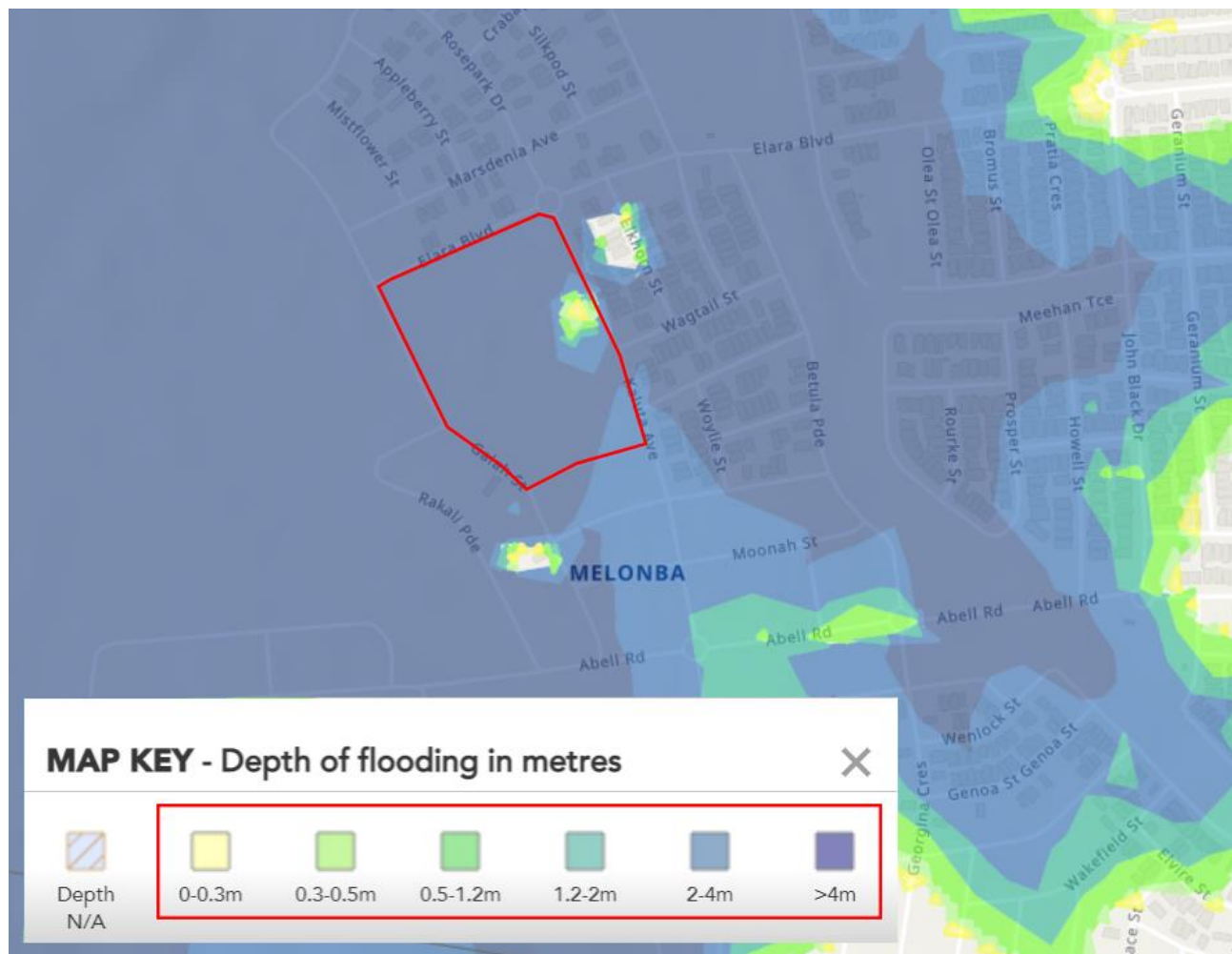


Figure 2.3 – SES Hawkesbury-Nepean Basin PMF map

2.2 Post Development Conditions

The site will remain unaffected by floodwaters during the 1% AEP and inundated during the PMF.

Blacktown City Council require that sensitive developments including schools must demonstrate a higher standard of flood protection due to the age and potential risk to the occupants. This was confirmed by Council in the Application for Flood Advice.

Due to the PMF levels associated with site it is proposed to close the school in advance of significant storm events. This approach was confirmed in consultation with BCC and SES. Peak flood levels occur after about 70 hours which provides adequate warning time for closure notices to be issued. BOM forecasts provide 12-15 hours' notice and the current warning time for mainstream Hawkesbury-Nepean flooding at Windsor is 15 hours for flood levels exceeding 13.7m. Therefore providing 12 hours' notice for school closure is considered achievable. SES liaison officers will consult with the Education liaison officer to agree on the closure of the school.

3.0 Preparation for Flood Response

3.1 Education

The awareness of flooding is a significant issue within floodplains due to the infrequency of severe floods and the anticipated depths of flooding at the site location. During the occupation phase, as part of the preparation for a flood event, all staff and visitors on site will be made aware of the flood risk and the flood protocols & procedures (including their responsibilities) via briefing and signage. This will form part of the mandatory site inductions that all staff must undertake prior to gaining access to the site. A copy of this FERP will be made available to all new staff, contractors, and site visitors. Completion of site induction and safety training is the responsibility of the Safety Manager.

3.2 Staff Responsibilities

Sufficient warning times will allow closure of the school prior to inundation of the site by floodwaters. It is therefore expected that students and staff will not be located on site during a PMF flood event. Discussion between the SES and Department of Education regarding the impacts of flooding and closure of the school due to approaching floodwaters is to be communicated to all students, parents, and staff as soon as possible.

As no students or faculty members are expected to be located on site during inundation by floodwaters, no additional responsibilities are anticipated except ensuring that there are no personnel left on school grounds following the announcement of school closure.

Any personnel located within the school after the closure of site are to follow the SES evacuation protocols for the Melonba and Marsden Park area. These have been confirmed by SES as Elara Boulevard and Abell Road. These routes relay on bridges to the east of the site which will be cut off at about 19m and 19.5m respectively.

Table 3.1 – Staff Flood Responsibilities

Role	Location	Responsibilities
Regional Director for the Department of Education	N/A	- Pass information to school bus drivers/companies and parents on expected or actual impacts of flooding. - Liaise with SES for the early release of students whose travel arrangements may be disrupted by flooding. - Liaise with SES for temporary closure of school impacted by flooding. - Assist with evacuation coordination for any personal on site.
Chief Warden / Principal	Within School	- Inform Staff of flood risk - Coordinate school closure - Coordinate flood evacuation drills as a backup. - Liaise with SES. - Decide if evacuation is required in consultation with SES. - Assign and manage Assistant Warden(s) as appropriate.
Safety Manager / First Aid Officer	Within School	- If on site coordinate assistance for any less able person during evacuation. - Prepare a Flood Emergency Kit that includes a portable radio, torch, spare batteries, first aid materials, emergency contact numbers, candles, waterproof matches, waterproof bags and required medications.
Floor / Building Wardens	Within School	Coordinate evacuation of their designated floor/building and assist in evacuation of any personal who are on site.
Staff	Within School	If on site assist Floor/Building Wardens in evacuation of any personal on site.

3.3 Students

To increase awareness within the school, it is recommended that students be educated on the potential flood risk and actions that will be undertaken during a flood event. As part of this education, it is recommended that evacuation drills should be conducted regularly to ensure students are aware of the procedures for evacuation although noting closure of the school should prevent this eventuality. Lessons should be held that address flood risks and highlight dangerous behaviours during a flood event. These lessons could be based on materials available on the NSW SES website which have been tailored for students of various ages.

3.4 Evacuation Drills

It is recommended that evacuation drills be held at a minimum of every 12 months to ensure all staff are and students are aware of and familiar with their flood response actions, the sound of the alert and occupancy warning system, and the location of the assembly point.

3.5 Flood Emergency Kit

A Flood Emergency Kit must be available prior to a flood event taking place and regularly checked to ensure that supplies within the kit are sufficient and in working condition. This check should occur during each evacuation, and the kit should include:

- Radio with spare batteries
- Torch with spare batteries
- First aid kit and other medicines
- Waterproof bags
- A copy of this Flood Emergency Response Plan
- Emergency contact numbers.

This Emergency Kit should be stored in a waterproof container and is the responsibility of the School Safety Manager/First Aid Officer during the occupation phase.

4.0 Flood Warnings and Notifications

4.1 Flood Watches and Warnings

NSW SES operates three levels within the Australian Warning System (AWS). The AWS is a nationally consistent, three-tiered approach designed to make warnings clearer and lead people to take action ahead of severe weather events. The warning system comprises warning levels, action statement, hazard icons, colours, and shapes.



Figure 4.1 – NSW SES Australian Warning System (AWS) Warning Levels and Action Statements

4.1.1 Advice

Severe weather and thunderstorm advice warnings are issued by the Bureau of Meteorology (BOM) www.bom.gov.au. These warnings are continually updated with a description of the likely conditions (including predicted extreme rainfall depth).

4.1.2 Watch and Act

BOM issues flood alerts, advice, and watches for the Hawkesbury River Catchment (New South Wales) through coordination with the SES, water agencies and local councils including Blacktown City Council.

Although no official forecast location is associated with the South Creek catchment, the warning time for the mainstream Hawkesbury-Nepean flooding downstream of site at Windsor is 15 hours for heights exceeding 13.7m. It has been concluded that warning times associated with the Windsor forecast location would allow sufficient warning for evacuation warnings and procedures of site located upstream.

4.1.3 Emergency Warning

SES will use a Standard Emergency Warning Signal (SEWS) to precede all Top Priority Flood Warnings and all Evacuation Warnings. Once activated, Evacuation Orders are broadcast over the radio stations and through the SES.

A Flood Watch is issued by the BOM up to four days prior to a flood event. A watch is generally updated daily and may be issued before, during or after rainfall has occurred. Flood warnings are issued by the BOM when flooding is occurring or is expected to occur in a particular area. Warnings may include specific predictions of flood depths dependent on real-time rainfall and river level data. These warnings are distributed to Council, Police, and the relevant local SES, as well as being available on the BOM website through telephone weather warnings and radio broadcasts.

SES Evacuation Warning is a warning message from SES advising the community to prepare for likely evacuation. The warning advises people on what to do and what to prepare to take with them.

A Flood Evacuation Order is a notification to the community authorised by the SES when the intent of an Incident Controller is to instruct a community to immediately evacuate in response to an imminent threat. It also advises where people should go and may advise which evacuation route to take.

4.2 Coordination of Flood Evacuation Warnings and Orders

The overall coordination of the regional road evacuation routes will be conducted from the Evacuation Coordination Desk at the NSW SES. The NSW SES Controller will decide when to issue Advice, Watch and Act, and Emergency Warning actions.

The Incident Controller ("Evacuation Coordination Desk") will distribute these action statements to other NSW SES control centres; metropolitan media outlets for immediate broadcast; and the Joint Media Information Centre. The Incident Controller will also advise Police and the NSW Transport Management Centre to begin traffic management procedures on regional evacuation routes.

The Incident Controller will distribute an Emergency Warnings through the following systems (when available) internet, fax, email, text message, and automatic telephone dialling with pre-recorded messages.

NSW Local Controllers will distribute Emergency Warnings through Warden systems. Emergency service personnel uses public announcement systems in vehicles, and door knocking.

If there is sufficient notice of a potential evacuation, the SES Controller will discuss temporary closure of appropriate schools with the Regional Director of the Department of Education. Due to long lead time required for SES to mobilise the required resources, the SES Incident Controller will provide early notice to the school should the school need to be evacuated

4.3 Public Address System

The school will have a Public Address (PA) system including a continuous bell that can alert any personal on site in the event of an emergency. The school will have an internal Evacuation Procedure, as part of the School's Emergency Management Plan, that addresses the process for evacuation within the school grounds.

In the event of this emergency tone, personal will assemble at a designated assembly point. Regular emergency drills will be undertaken to ensure all personal are aware of the emergency procedures

4.4 Flood Inundation Time

Peak flood levels occur after about 70 hours. This would allow sufficient time to organise the closure of the school site, thus removing all staff and visitors from flood risk associated with the development site. Shorter storm durations may also occur, which may produce flooding but would not reach the peak depths or levels on site.

No flood hazard is predicted across the development site under the post-development condition during the 100-year ARI flood. The proposed minimum site level lies at 19.20m with the lowest building ground floor level at FFL 20.45m which are above the 1% AEP flood level + 500mm freeboard of 17.8 as outlined by BCC.

PMF flood levels for site provided by BCC Flood Advice Application have identified the PMF flood level as 26.4m AHD, inundating the site with floodwaters between 3m and 7m depth. The Flood Hazard category is therefore high during the PMF event.

Due to large flood inundation times and significant official forecast locations associated with the Hawkesbury-Nepean floodplain, it is advised that Flood Evacuation be prioritised from site in lieu of shelter in place which aligns with consultation with SES. The school is to be closed during flood warnings and any personnel located on site are to follow the precinct wide flood evacuation strategy adopted by SES.

5.0 Flood Emergency and Evacuation Route

5.1 Emergency Contact Details

In the event a Watch and Act or Emergency Warning action, students, parents, and staff are to be contacted outlining that the school site is closed. A list of staff and student contact numbers in addition to parents and legal guardians should be organised by the school during initial operation and updated constantly to ensure that contact details remain up to date. This will ensure that all parties are notified of rising floodwaters and the operational status of site.

Additional key contact details are included in **Table 5.1** below.

Table 5.1- Emergency Contact Details

Internal Contacts	
Emergency Coordinator	Phone Contact
Head of Administration	TBA
Principal	TBA
Deputy Principal	TBA
External Contacts	
Service	Phone Contact
Police / Ambulance / Fire	000
State Emergency Services (SES)	132 500
Police – Riverstone Station	(02) 9838 2199
Hospital - Westmead	(02) 8890 5555
Dept education – State Office	(02) 9836 9000
Dept Education	1300 679 332
Endeavour Energy	131 003

5.2 Emergency Assembly Point and Evacuation Routes

The site is to be closed in anticipation of flood events. Any personnel located on site are to follow the precinct wide flood evacuation plan adopted by SES for the local area.



Figure 5.1 – Flood Evacuation Route

6.0 Flood Response Actions

WHEN A WATCH AND ACT WARNING LEVEL IS ISSUED the following actions should be undertaken:

- Ensure the emergency kit is ready to use.
- Listen to the local radio station for updates on forecasted flood heights and timings.
- Call SES for an update and possible evacuation advice.
- Notify all staff and students of the flood watch and assist availability of staff to assist with emergency actions if required.

WHEN AN EMERGENCY WARNING IS ISSUED the following actions should be undertaken:

1. Undertake the actions nominated under the “flood watch”.

2. During School Hours:

- Close the school at the end of the day if considered safe to do so in consultation with SES and notify students and staff of the temporary closure of the school until further notice.

3. Outside of School Hours:

- Close down the school and notify students and staff of the temporary closure of the school.

6.1 Coordination of Flood Warnings and Orders

During the occupation phase, the Administration Office will be responsible for monitoring information from the SES regarding flood events. Under the direction of the Incident Controller, the Head of Administration will decide when to issue Flood Response Warnings and Orders for the site. Incident Controllers are appointed by the NSW SES State Controller, who will also establish Incident Control Centres.

Wayfinding similar to **Figure 6.1** must be installed at appropriate places throughout the site during the occupation phase to identify the protocols clearly



Figure 6.1 – Typical Flood Evacuation Signage

7.0 Limitations and Revision of the Flood Emergency Response Plan

This FEMP addresses the closure of the proposed school site during extreme flooding events for students and staff and is considered a guide only. It does not cover students and staff individual safe travel arrangements on their way to school when their safe travel arrangements may be disrupted by flooding and/or road closures.

It is the NSW Department of Education & Communities' responsibility to ensure this FERP is current and updated as necessary to be in line with relevant standards, directorate, legislation, and the Regional's State Emergency Management Plan to ensure the health, safety and welfare of all staff, students and others.

Prepared by
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TIM MOORE
Associate Director

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Appendix A – BCC Flood Advice Letter



File no: 386883

31 May 2022

Mitchell Leighton

Dear Mitchell

Elara Boulevard Melonba being Lot 30 in DP 1237735

I refer to your email of 17th May 2022 regarding flood information for the above property.

Flood Assessment

Based on the latest information available to us from consultants and/or statutory authorities, this property is identified as under State Environmental Planning Policy (SEPP) Flooding.

The property is also currently identified in the Low, Medium and High Flood Risk Precinct of the Little Creek floodplain.

Recommendations

Council's Asset Design section would require for the construction of an educational establishment (Primary School and High School) the preliminary minimum floor level to be the highest adjacent 1% Annual Exceedance Probability (AEP) plus 500mm. However, based on the filling for the subdivision this has already been considered.

Sensitive developments such as primary schools and high schools require a higher standard of flood protection due to the age of and potential risk to the occupants. In most of these, sufficient area above the Probable Maximum Flood (PMF) may need to be demonstrated for all occupants to shelter-in-place. Emergency back-up generators (if provided) and flood related infrastructure are to be installed above the PMF.

For further information we direct you to view Blacktown City Council's Water Sensitive Urban Design (WSUD) Developer Handbook.

This document is published on Blacktown City Council's website:

<https://www.blacktown.nsw.gov.au/Plan-build/Stage-2-plans-and-guidelines/Developers-toolkit-for-water-sensitive-urban-design-WSUD/MUSIC-modelling>

Connect - Create - Celebrate

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Background

Please read this letter in conjunction with Attachment A, General Flood Information and Attachment B, Complying Development Information.

Please find attached a copy of an extract from Council's Geographical Information System (GIS) showing the approximate extent of Blacktown City's flood information in this area. Please note the disclaimer and the contour interval of 0.5 metres.

The preliminary 1% Annual Exceedance Probability (AEP) flood level for the subject property is 17.3 metres to Australian Height Datum (AHD).

The preliminary Probable Maximum Flood (PMF) level for the subject property is 26.4 metres to AHD.

The SEPP maps (shown as light blue hatching) indicate the extent of flood prone land based on existing conditions at the time of preparing the precinct planning. Therefore, they may not include any changes resulting from subsequent development or infrastructure works.

A current Section 10.7(2) Certificate would include the following paragraph:

"This lot is shown flood prone on mapping provided by the Department of Planning. The investigation for this area has not been completed and all enquiries should be directed to the Department of Planning. Flood related development controls for this lot are provided in the Development Control Plan for this area, prepared by the Department of Planning. Where development is proposed within or adjacent to land that is shown on the Flood Prone Land figure as being affected by the 1% AEP level, Council may require a more detailed flood study to be undertaken by the applicant to confirm the extent on the flood affectation on that land."

The property is subject to *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*. It is identified on the Development Control Map as "Flood Prone and Major Creeks Land". Clause 19 of the Growth Centres SEPP provides heads of consideration when a development application is lodged on land affected by "Flood Prone and Major Creeks Land"

A current Section 10.7(2) Certificate would also include the following paragraphs:

"Council has adopted a Floodplain Management Policy which may restrict the development of the land subject to this Certificate, including development for the purposes of dwelling houses, dual occupancies, multi-dwelling housing, residential flat buildings and any other purpose that requires the placement or erection of any structure on the land. The Flood Risk Precinct Maps prepared under the policy are based on the results of Engineering Flood Studies commissioned by Government Authorities and Council. These maps indicate that the land subject to this Certificate lies partly or wholly within the Medium and High Flood Risk Precincts.

The term Medium Flood Risk Precinct is defined as land below the 100-year flood level that is not within a High Flood Risk Precinct. This is land that is not subject to a high hydraulic hazard or where there are no significant evacuation difficulties. Further details are provided in the NSW Government's Floodplain Development Manual and are available from Council. Council does not warrant that the information provided or made available to you is complete. Council strongly recommends that, in all cases, you seek independent professional advice to supplement your enquiries.

The term High Flood Risk Precinct is defined as the area of land below the 100-year flood event that is either subject to a high hydraulic hazard or where there are significant evacuation difficulties. Further details are provided in the NSW Government's Floodplain Development Manual and are available from Council. Council does not warrant that the information provided or made available to you is complete. Council strongly recommends that, in all cases, you seek independent professional advice to supplement your enquiries."

Council acknowledges that the subdivision works that have been carried out in the local area will require the amendment of the SEPP mapping and Council Flood Maps. The current process to amend the SEPP mapping is for a planning proposal to be prepared by the developer and/or property owner. The planning proposal process is lengthy and will generally take a minimum of 2 to 3 years. Council is currently investigating an alternative process with the Department of Planning and Environment to enable these types of housekeeping amendments to be made more efficiently hence quicker. Similarly, Council's flood mapping will also have to be amended and this process is being investigated. Unfortunately, the current notations will remain until this issue is resolved.

Council's flood mapping is available on Council's web site. To start go to <http://maps.blacktown.nsw.gov.au>. Council's flood mapping only covers the areas where it has information. A property that is not identified does not mean that there are no flood issues. It is the responsibility of the person enquiring to check the natural fall of the land and to ensure that the subject property is not affected by local stormwater overland flows that might affect existing or future development on this land.

However, please also be advised that there may be other non-flood related issues that might impact on the use of the land.

If you would like to discuss this matter further, please contact me on 0428 556 024.

Yours faithfully

A handwritten signature in black ink, appearing to read 'P McAteer', with a stylized, cursive script.

Philip McAteer
Floodplain and Stormwater Team Leader

Encl. Attachment A & B, Flood map.

Disclaimer:

The information contained in this letter is only valid on the date of issue. This letter has been prepared with all due care and in good faith using the best information available to us.

We provide no warranties in relation to the completeness or accuracy of the information contained in this letter, and do not accept liability for any loss or damage resulting from, or in connection with, its contents or its use.

Attachment A

General Flood Information

The flood levels supplied are for the pre developed existing conditions

The flood levels supplied do not take climate change into consideration. These flood levels should not be used to set floor levels or to identify the extent of flooding over the property as our current flood models may not have included blockage factors nor changes in land-use and landform since the date of the study.

Probable Maximum Flood

This is the largest flood that could conceivably occur at a particular location. The PMF defines the extent of flood prone land that is, the floodplain. The risk of it happening in any one year is extremely rare and is considered to be between a 1 in 100,000 to a 1 in 10,000,000 chance.

1% AEP Flood

This is a flood that has a probability of 1% (or a 1 in 100 chance) of occurring in any given year.

Flood risk precincts

Precincts have been defined based on hydraulic and survey information available to Council. In many cases a more definitive indication of flood risk precinct extents can be determined by relating surveyed ground levels at AHD to the relevant hydraulic and/or flood level criteria.

The Low Flood Risk Precinct is all land within the floodplain, i.e. within the extent of the Probable Maximum Flood (PMF) but not identified as either a high flood risk or medium flood risk precinct. Therefore, the Low Flood Risk Precinct is all the land between the 1% AEP and PMF flood extents.

The Medium Flood Risk Precinct is the land below the 1% AEP flood level subject to a low hydraulic hazard (in accordance with the provisional criteria outlined in the N.S.W. Government Floodplain Development Manual 2005).

The High Flood Risk Precinct is the land subject to a high hydraulic hazard (in accordance with the provisional criteria outlined in the N.S.W. Government Floodplain Development Manual 2005) in a 1% AEP flood event and/or subject to potential evacuation difficulties during a flood.

“Development on Flood Prone Land” guidelines

Our guidelines can be found in “Blacktown Development Control Plan (DCP) 2015 Part A” publication. This publication is available on Council’s Website “www.blacktown.nsw.gov.au”. To find this document click on Planning and Development tab on the home page and then select Blacktown Development Control Plan 2015. This publication is currently under review in respect of floodplain planning issues.

Council’s flood mapping is available on Council’s web site

To start click Discover Blacktown tab on the home page and then select Maps Online and follow the instructions. Council’s flood mapping only covers the areas where it has information. A property that is not identified does not mean that there are no flood issues. It is the responsibility of the person enquiring to check the natural fall of the land and to ensure that the subject property is not affected by local stormwater overland flows that might affect existing or future development on this land.

Flood Planning Level

The Flood Planning Level is a special area of the Low Flood Risk Precinct that is within the 0.5m freeboard of the 1% AEP flood level.

We are currently reviewing the flood modelling in this area

Finalisation of this modelling work may result in a variation to the quoted flood levels and amendments to our current flood mapping extents. The flood levels shown are under review and therefore are preliminary information only.

Attachment B

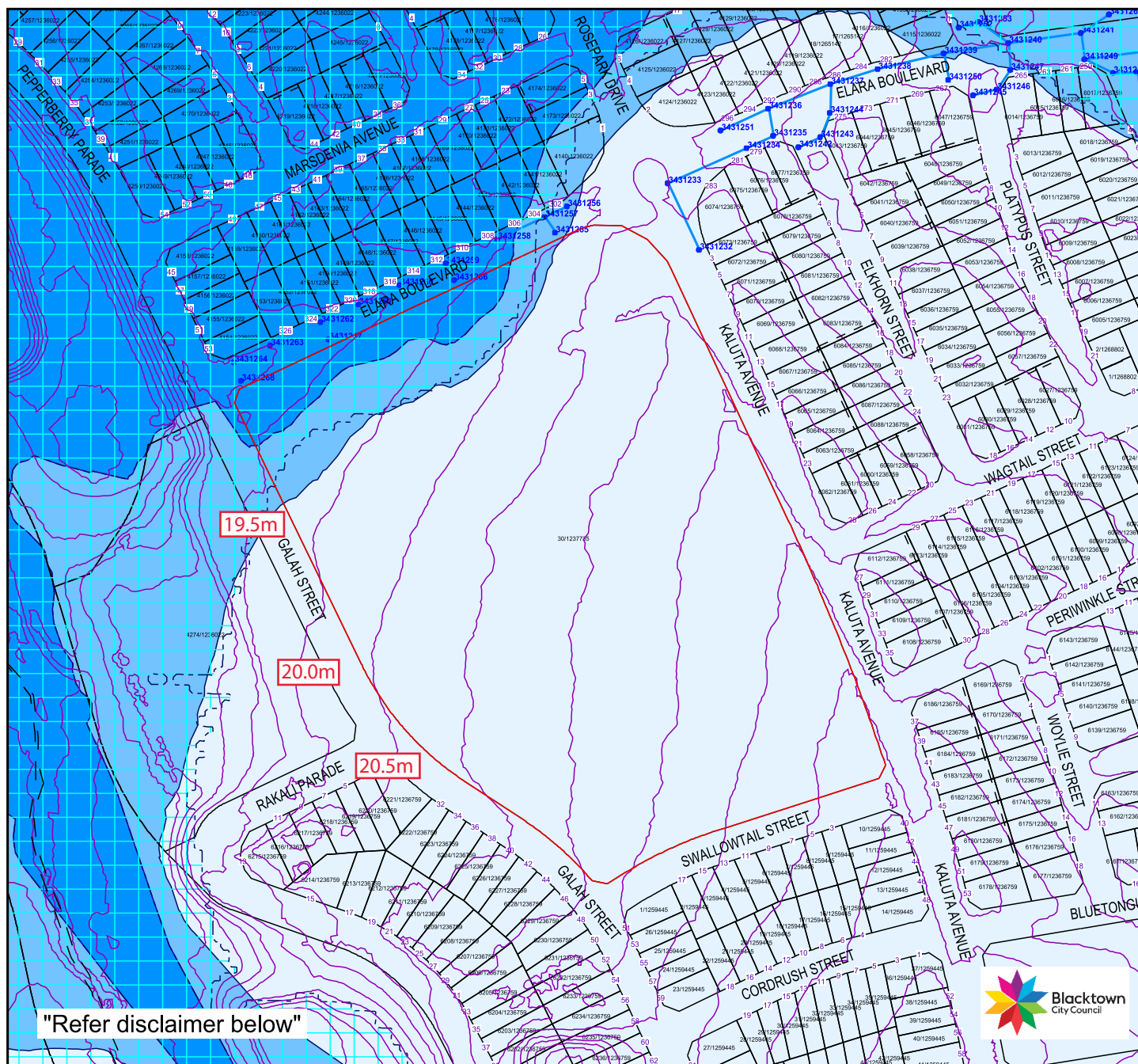
Complying Development Information

The information you seek may vary between “complying development” ie: routine development which has minimal environmental impact, providing the design complies with each relevant development standard of the pertinent State Environmental Planning Policy (SEPP) or “local development” ie: development, including State significant development, which may have significant environmental impact and for which a Development Consent and Construction Certificate are required under the Environmental Planning and Assessment Act 1979.

The property is identified on Council’s records as being a flood control lot as it is affected by “Medium Flood Risk Precinct” according to the latest information available to Council. The Medium Flood Risk Precinct is considered to be the equivalent of “a flow path” for the purposes of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Where your enquiry relates to a proposed Complying Development Certificate (CDC), any flood control lot provisions of the relevant SEPP must be investigated.

The SEPP may provide that a CDC cannot be issued for any flood control lot until either Council or a professional engineer who specialises in hydraulic engineering (eg: a person holding the relevant accreditation under the NSW Building Professionals Board accreditation scheme) certifies that the land is not a flood storage area, a floodway area, a flow path, a high hazard area or a high-risk area.



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Plot Date: 26/05/2022

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BLACKTOWN CITY COUNCIL Flood Risk Map

This is Council's current flood map. However Council is currently reviewing the flood modelling in this area. Finalisation of this modelling work may result in a variation to the quoted flood levels and amendments to Council's current flood mapping extents.

DISCLAIMER: The flood risk precincts shown are based on information available to Council and should be regarded as an indicative guide only. A more accurate indication of the extent of the respective flood risk precincts can be determined by relating surveyed ground levels at Australian Height Datum (AHD) to the hydraulic and/or flood level criteria determining flood risk precinct boundaries. This information may be obtained by a written request to Council accompanied by a ground level survey to AHD prepared by a Registered Surveyor. Should flood risk precinct extents be required for the purpose of a financial transaction of any nature, then the parties to that transaction should apply to Council for formal certification and/or seek independent legal or professional advice.



Scale 1:3500

- | | | |
|---|----------------------------|----------------------------|
| Parcel Extent, Torrens Title Extent | DTM Contour, 13.0m Contour | DTM Contour, 19.0m Contour |
| Parcel LPI Extent, Torrens Title Extent | DTM Contour, 13.5m Contour | DTM Contour, 19.5m Contour |
| Easement Segment, Extent | DTM Contour, 14.0m Contour | DTM Contour, 20.0m Contour |
| Local Government Area, Gazetted Boundary | DTM Contour, 14.5m Contour | DTM Contour, 20.5m Contour |
| Waterway, Extent | DTM Contour, 15.0m Contour | DTM Contour, 21.0m Contour |
| Drainage Conduit, Route | DTM Contour, 15.5m Contour | DTM Contour, 21.5m Contour |
| Drainage Node, Location | DTM Contour, 16.0m Contour | DTM Contour, 22.0m Contour |
| EP-FLD Flooding Planning, Flood Prone SEPP Extent | DTM Contour, 16.5m Contour | DTM Contour, 22.5m Contour |
| Flood Extents, High Flood Risk Precinct | DTM Contour, 17.0m Contour | DTM Contour, 23.0m Contour |
| Flood Extents, Medium Flood Risk Precinct | DTM Contour, 17.5m Contour | DTM Contour, 23.5m Contour |
| Flood Extents, Low Flood Risk Precinct | DTM Contour, 18.0m Contour | DTM Contour, 24.0m Contour |
| DTM Contour, 13.0m Contour | DTM Contour, 18.5m Contour | DTM Contour, 24.5m Contour |
| | DTM Contour, 19.0m Contour | DTM Contour, 25.0m Contour |