Permit

Environmental Protection Act 1994

Environmental authority EPPR02412614

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR02412614

Environmental authority takes effect on upon the day of approval.

The anniversary day of this environmental authority remains 24 April. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 March.

Environmental authority holders

Name(s)	Registered address
GOLD COAST CITY COUNCIL	833 Southport Nerang Rd NERANG QLD 4211 Australia
Gold Coast Waterways Authority	40-44 Seaworld Drive MAIN BEACH QLD 4217

Environmentally relevant activity and location details

Environmentally relevant activity	Locations
ERA 16 - Extraction and Screening 1: Dredging, in a year, the following quantity of material (c) more than 100,000t but not more than 1,000,000t	Gold Coast Waterways as defined in the *Gold Coast Waterways Authority Act 2012*; and Coomera Dredged Sediment Management Facility (Lot 54 on SP137530, Lot 52 on SP137530 and Lot 18 on SP131567).

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

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A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Liz Clarke
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 21 October 2020

Enquiries:
Utilities and Government Organisations Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

Environmentally relevant activity	Location
16-(1c) Dredging >100,000t but <1000,000t yr	Gold Coast Waterways as defined in the *Gold Coast Waterways Authority Act 2012*; and Coomera Dredged Sediment Management Facility (Lot 54 on SP137530, Lot 52 on SP137530 and Lot 18 on SP131567).

The environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1	Activities conducted under this environmental authority must not be conducted contrary to any of the following: 1. the amount of material dredged per year must not exceed 1,000,000t; 2. must be in accordance with the latest approved version of the report found in *Schedule 1 – Approved Reports* of the environmental authority: a) the *Gold Coast Waterways Sand Management Plan Incorporating an Environmental Management Framework* (SMP/EMP) and Appendices, prepared by the Gold Coast Waterways Authority and the City of Gold Coast; 3. must be carried out in accordance with condition S1 of the environmental authority.

G2	All reasonable and practicable **measures** must be taken to prevent the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. **Records** must be kept including full details of the breach and any subsequent actions taken.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G5	All information and **records** that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and **records** required by the conditions of this environmental authority must be provided to the **administering authority** upon request.
G6	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has **NATA** certification, or an equivalent certification, for such analyses. The only exception to this condition is for any additional in situ monitoring of water quality parameters.
G8	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.
G9	The **activity** must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the **activity** during routine operations and emergencies; and b) establish and maintain control **measures** that minimise the potential for environmental harm; and c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and d) ensure plant, equipment and **measures** are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994*; and f) ensure that reviews of environmental performance are undertaken at least annually.
G10	Provide to the **administering authority** written notification of the date when **dredging** will commence at least five (5) business days prior to establishing a new **dredging activity.**

Agency interest: Air	
Condition number	**Condition**
A1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT1	The only contaminants to be released to surface **waters** are: 1. Contaminants released to surface waters from the **Coomera Dredged Sediment Management Facility (CDSMF)** in accordance with condition CDSMF 3; and 2. bed sediments necessarily disturbed during **dredging** at locations indicated in condition G1 in accordance with *Table 1— Surface water trigger limits* and the associated monitoring requirements.

Table 1 – Surface water trigger limits*

Timing of dredging activity	Monitoring location(s)	Water quality characteristics	Trigger Limit		Monitoring Frequency
			Minimum	Maximum	
Green Zone (as identified in condition S1 of this environmental authority)	Background sampling point [1]	Turbidity [3] (NTU)	N/A	N/A	Concurrently with down-current turbidity sampling frequency
	Down-current sampling point [2]	Visual sediment plume monitoring	No visible sediment plume beyond 300m down-current of the dredge **activity**		Daily[7]
		Petroleum products, scum or litter	Not visible or noticeable		Daily[7]
		pH	6.5	8.5	Weekly
		Event-based monitoring: If visible sediment plume is observed beyond 300m down-current of the dredge **activity** for any length of time on three or more consecutive days, the following additional event-based[4] water quality monitoring requirement is triggered:			
		Turbidity[3] (NTU)	Daily average[5] turbidity must be ≤10 NTU above the daily average [5] background value [1] when the background value [1] is <100 NTU OR Daily average [5] turbidity must be ≤10% above the daily average [5] background value [1] when the background value [1] is > 100 NTU		Event-based [4]

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Yellow Zone (as identified in condition S! of this environmental authority)	Background sampling point [1]	Turbidity (NTU)	N/A	N/A	Continuous during **dredging** with telemetry or weekly data logger retrieval
	Down-current sampling point [2] within existing seagrass meadows most likely affected by the **activity** – minimum 3 fixed locations OR an alternative approach as outlined in the Dredge Management Plan (DMP) for the waterway as required by conditions S2 to S5 of this environmental authority.	Turbidity (NTU)	48-hour daily average [5] turbidity must not exceed the long-term baseline 99th percentile [6] AND 14-day rolling average [5] of daily average turbidity must not exceed the long-term baseline 80th percentile [6] unless the background value [1] is also exceeding the baseline percentile over the same period		
		Visual sediment plume monitoring	No visible sediment plume beyond 300m down-current of the dredge **activity**		Daily [7]
		Petroleum products, scum or litter	No visible or noticeable		Daily [7]
		pH	6.5	8.5	Daily[7]

***Trigger Limit** is a value that, in event of that value being exceeded, initiates further investigation to address the likely cause of exceedance, with the primary objective of being to determine whether the **dredging activity** was the cause of the exceedance.

*1 A background sampling point is a water quality monitoring site located (at minimum) 100m up-current of the **dredging activity**.*
A background value for a quality characteristic is the value of the quality characteristics measured at a background sampling point, and must not be determined using data collected within the period of one hour either side of the slack water.

*2 A down-current sampling point that is no more than 300 meters from the dredge **activity** in the down-current direction. Water quality determinations must be made at times when tidal flows or other flows are occurring (i.e. measurements collected within the period of one hour either side of the slack water cannot be used).*

3 Non-logger-based turbidity monitoring must be conducted by completing profile readings at -0.2m, -2m and every whole 2m depth interval thereafter. All turbidity profile depths should be represented when calculating average values.

*4 An 'Event' is defined as being the occurrence of a visible sediment plume observed beyond 300 metres of the **dredging activity**, the extent and intensity of the plume must be investigated for the purposes of reporting in accordance with condition G3.*

5 Calculating averages must only be performed using turbidity data collected during daylight hours. For the purpose of this requirement, ''daylight hours' for this purpose being defined as the time of day between 60 minutes after sunrise to 60 minutes before sunset.

*6 **Long-term baseline percentile** values must be determined from turbidity data held in the **administering authority's** Ecosystem Health Monitoring Program (EHMP) Queensland Waterways Database for the most appropriate Broadwater sites at the equivalent depth of the fixed turbidimeter in question and should be supplemented with alternate fit-for-purpose data if and when available.*
***Long-term baseline percentiles** should be revised on an annual basis.*

7 in the context of this monitoring requirement, 'daily' means at any time throughout the day.

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	Associated monitoring requirements 1. Monitoring must be conducted in accordance with the methods prescribed in the current edition of the **administering authority's** *Monitoring and Sampling Manual.* 2. Water quality samples must be representative of water being tested. 3. All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable reliable comparisons to be made against the assessment criteria relevant to the particular water quality characteristic. 4. Monitoring must be undertaken during a release as per the frequency stated. 5. All monitoring devices must be correctly calibrated and maintained.
WT2	Monitoring of contaminant releases to **waters** must be undertaken in accordance with condition WT1 and **records** of the results must be kept.
WT3	In addition to WT1, the release to **waters** must not: 1. have any other properties at a concentration that is capable of causing environmental harm; 2. produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.

Agency interest: Noise

Condition number	**Condition**
N1	Noise from the **activity** must not exceed the levels identified in *Table 2 – Noise limits* when measured in accordance with the associated monitoring requirements.

Table 2 – Noise limits

Noise level measured in dB(A)	**Monday to Saturday**			**Saturday and Public Holidays**		
	7am – 6pm	**6pm – 10pm**	**10pm – 7am**	**9am – 6pm**	**6pm – 10am**	**10pm – 9am**
	Noise measured at a **nuisance sensitive place**					
$L_{Aeq, adj, T}$	**Background** +5	**Background** +3	**Background** +0	**Background** +5	**Background** +3	**Background** +0
$MaxL_{pA,T}$	**Background** +10	**Background** +8	**Background** +5	**Background** +10	**Background** +8	**Background** +5
	Noise measured at a **commercial place**					
$L_{Aeq, adj, T}$	**Background** +10	**Background** +8	**Background** +5	**Background** +10	**Background** +8	**Background** +5
$MaxL_{pA,T}$	**Background** +15	**Background** +13	**Background** +10	**Background** +15	**Background** +13	**Background** +10

Associated monitoring requirements

1. All monitoring devices must be correctly calibrated and maintained.

	2. Any monitoring must be in accordance with the most recent version of the **administering authority's** *Noise Measurement Manual.* 3. Any monitoring of noise emissions from the activity must be undertaken when the **activity** is in operation.
N2	When required by the **administering authority**, noise monitoring must be undertaken in accordance with the associated monitoring requirements of *Table 2—Noise Limits*, and the results notified within 14 days to the **administering authority**. Monitoring must include: 1. **$L_{Aeq, adj, T}$;** 2. **Background** noise (**Background**) as $L_{A\ 90, adj, T}$; 3. **Max$L_{pA,T}$;** 4. the level and frequency of occurrence of any impulsive or tonal noise; 5. atmospheric conditions including wind speed and direction; 6. effects due to extraneous factors such as traffic noise; and 7. location, date and time of recording.
Agency interest: Land	
Condition number	**Condition**
L1	Treatment and management of acid sulfate soils must comply with the current edition of the *Queensland Acid Sulfate Soil Technical Manual*.
Agency interest: Waste	
Condition number	**Condition**
WS1	All waste generated in carrying out the **activity** must be reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Site specific	
Condition number	**Condition**
S1	**Activities** authorised under this environmental authority: a) includes waterways, anchorages and access points identified as green **zones** specified in *Table 1 – Channel Details* and *Figure 1 – Green, Yellow, and Red Zones* found in *Schedule 2 – Approved Plans* of the environmental authority; and b) includes waterways, anchorages and access points identified as yellow **zones** specified in *Table 1 – Channel Details* and *Figure 1 – Green, Yellow and Red Zones* found in *Schedule 2 – Approved plans* of the environmental authority following additional detailed

	investigations, preparation and submission to the **administering authority** of a Dredge Management Plan (DMP) for that new location, as specified in condition S2; c) must not occur in waterways, anchorages or access points identified as red **zones** specified in *Table 1 – Channel Details* and *Figure 1 – Green, Yellow and Red Zones* found in *Schedule 2 – Approved Plans* of the environmental authority; and d) Include the handling of spoil at the **CDSMF**.
S2	Prior to commencement of the **activity**, in areas identified as yellow zones, the holder of this environmental authority must prepare and submit to the **administering authority** a Dredge Management Plan (DMP). The DMP for **dredging** in a yellow zone must: a) identify the intended locations(s) of **dredging** and placement activities to occur; b) identify the environmental value(s) of the location(s) where **dredging** and placement activities are to occur; c) provide an assessment of the potential adverse impacts of the activity on the environmental value(s) identified in (b) above; d) state the control **measures** to protect the environmental value(s); e) describe the water quality monitoring program. (Note: The water quality monitoring program must be in accordance with the methods prescribed in the most current edition of the **administering authority's** *Water Quality Sampling Manual);* f) specify the duration of the **dredging** and placement activities in the identified location(s); g) include: (i) details of the level and nature of the Science and Innovation Advisory Committee consultation undertaken during the development of the DMP; and (ii) a summary of the concerns and interest raised by the Science and Innovation Advisory Committee.
S3	The **activity** undertaken in yellow **zones** must be carried out in accordance with the relevant DMP submitted to the **administering authority** under condition S2.
S4	Following the completion of works, to which the relevant DMP specified in condition S2 relates, the holder of this environmental authority must give the **administering authority** a written **statement of compliance** under the *Environmental Protection Act 1994*, demonstrating compliance with the following **compliance criteria**: a) **dredging** and placement activities occurred in the location(s) specified in the DMP; b) the control **measures** specified in the DMP were in place to mitigate the potential adverse impacts of the **activity** on the environmental values; c) the dredge material placed within coastal **waters** was suitable for unconfined ocean disposal in accordance with the *National Assessment Guidelines for Dredging* (DEWHA/EA 2009); d) the activities specified in the DMP complied with the water quality monitoring program; e) **dredging** and placement activities specified in the DMP complied with conditions of this environmental authority.

S5	The **statement of compliance** specified in condition S4 must: a) state whether the work complied with **compliance criteria;** b) provide sufficient supporting information demonstrating compliance with the compliance criteria; c) be reviewed by the Agency Steering Committee; d) be submitted by the **administering authority** within 30 business days following the completion of works specified in the DMP.
S6	Sediment Quality Dredge material placed within coastal **waters** must be material that is suitable for marine placement in accordance with the *National Assessment Guidelines for Dredging (2009).*
S7	Dredge material placement must only occur: 1. in areas specified in *Figure 2 - Dredge Material Placement Areas* found in *Schedule 2 – Approved Plans* of this environmental authority, or 2. at the **CDSMF**, or 3. on **land** at another place in accordance with the requirements of conditions S8, S9 and S10.
S8	Dredge material placement in accordance with condition S7, part 3 must be undertaken in accordance with the following requirements: 1. All necessary approvals must be held for the placement of dredged material at the place (for example, relevant development approval); and 2. Use of dredge material for beach nourishment is deemed to be unsuitable or unreasonable, and 3. Dredge material must be characterised and assessed as suitable for its intended use by an **appropriately qualified person** in accordance with methodology provided in the latest editions of: a. the *National Assessment Guidelines for Dredging* for sampling methodology only; and b. the *National Environmental Protection (Assessment of Soil Contamination) Measure*, other than for sampling methodology; and c. the *Queensland Acid Sulfate Soil Technical Manual*; and 4. Any containment area used must be certified by an **appropriately qualified person** (for example, a registered professional engineer of Queensland (RPEQ)) and maintained to the certified condition; and 5. Handling of dredge material must be in accordance with written procedures that comply with the guidance provided in the current edition of the *Queensland Acid Sulfate Soil Technical Manual*; and 6. **Measures** must be implemented to prevent or minimise odours or airborne contaminants released by handling of dredge material causing **environmental nuisance** to any **sensitive place** or **commercial place**; and

	7. **Measures** must be implemented to prevent or minimise **environmental nuisance** to any **sensitive place** or **commercial place** caused by noise generated when handling dredge material; and 8. **Measures** must be implemented to prevent or minimise the **release of contaminants** to **waters** when handling dredge material; and 9. All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the placement of dredge material.
S9	At least 30 business days prior to commencing dredge material placement in accordance with condition S7, part 3, the holder of this environmental authority must provide information to the **administering authority** on the proposed dredge material placement, including: 1. the proposed location of the placement, and 2. A description of how the requirements of condition S8 are intended to be met.
S10	Following the completion of works relating to dredge material placement specified in condition S7, part 3, the holder of this environmental authority must give the **administering authority** a written **statement of compliance,** which demonstrates compliance with the requirements of condition S8.
S11	The **statement of compliance** specified in condition S10 must: a) state whether the work complied with the requirements of condition S8; and b) provide sufficient supporting information to demonstrate compliance with the requirements of condition S8; and c) be submitted to the **administering authority** within 30 business days following the completion of the dredge material placement.
Agency interest: Site specific	
Condition number	**Condition**
CDSMF1	Odours or airborne contaminants must not cause environmental nuisance to any **sensitive place** or **commercial place** as a result of the activities at the **CDSMF**.
CDSMF2	The only contaminants to be released to surface waters from the **CDSMF** are: Treated waters released to Oakey Creek (Release Point 1) located at Latitude -27.8574, Longitude 153.3269.
CDSMF3	The **waters** released from Release Point 1 must comply with each of the quality characteristics and monitoring frequencies specified in Table 1.

<table>
<tr><td></td><td>

Table 1 – Surface water release limits

<table>
<tr><th rowspan="2">Parameter</th><th colspan="2">Release Limit</th><th rowspan="2">Monitoring frequency</th></tr>
<tr><th>Minimum</th><th>Maximum</th></tr>
<tr><td>pH</td><td>7.0</td><td>8.5</td><td>Daily[1]</td></tr>
<tr><td>Turbidity (NTU)</td><td></td><td>25</td><td>Daily[1]</td></tr>
<tr><td>Dissolved Oxygen</td><td>85% saturation</td><td>105% saturation</td><td>Daily[1]</td></tr>
<tr><td>Total Suspended Solids</td><td></td><td>50 mg/L</td><td>Daily[1]</td></tr>
</table>

1 – Samples only required on days when a discharge occurs.

Associated monitoring requirements

(a) Monitoring must be in accordance with the methods prescribed in the latest version of the **administrative authority's** *Monitoring and Sampling Manual.*

(b) Water quality samples must be representative of water being tested.

(c) All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.

(d) Monitoring must be undertaken during a release and at the frequency stated.

(e) All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.

</td></tr>
<tr><td>CDSMF4</td><td>Monitoring of contaminant releases to waters must be undertaken in accordance with condition CDSMF3 and records of the results must be kept.</td></tr>
<tr><td>CDSMF5</td><td>In addition to CDSMF3, the release to waters must not:
1. Have any other properties at a concentration that is capable of causing environmental harm.
2. Produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.</td></tr>
<tr><td>CDSMF6</td><td>Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the Queensland Acid Sulfate Soil Technical Manual.</td></tr>
<tr><td>CDSMF7</td><td>The stormwater runoff from disturbed areas, generated by a storm event up to and including a 24 hour storm event with an average recurrence interval of 1 in 10 years must be retained on site or managed to remove contaminants before released offsite.</td></tr>
<tr><td>CDSMF8</td><td>Contaminants must not be released to groundwater or at a location where they are likely to release to groundwater.</td></tr>
<tr><td>CDSMF9</td><td>Measures must be taken to ensure no contaminants are released to groundwater as a result of seepage from treatment ponds.</td></tr>
<tr><td>CDSMF10</td><td>Noise generated at the CDSMF during sediment treatment must not cause environmental nuisance to any sensitive place or commercial place.</td></tr>
</table>

CDSMF11	All waste generated in carrying out the **activity** at the **CDSMF** must be reused, recycled or removed to a facility that can lawfully accept the waste.

Definitions

Key terms and/or phrases bolded in this environmental authority are defined in this section and **bolded** throughout this document. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Science or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as LA90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Compliance criteria as prescribed in section 208 of the *Environmental Protection Act 1994.*

Coomera Dredged Sediment Management Facility (CDSMF) means the facility on land at Lot 54 on SP137530, Lot 52 on SP137530, Lot 18 on SP131567 and parts of the Ford Road and Shipper Drive road reserve, 91 Shipper Drive, Coomera.

Dredging includes extraction of mud, sand, coral, ballast, shingle, gravel, clay, earth and other material from the bed of Queensland tidal and non-tidal **waters**. Dredging does not include the banks of a waterway.

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994*.

$L_{Aeq\ adj,T}$ means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.

Max$L_{pA,T}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant to the environment means to:
- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992,* the *Marine Parks Act 2004* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008.*

Statement of compliance as prescribed in section 208 of the *Environmental Protection Act 1994.*

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part

thereof.

You means the holder of the environmental authority.

Zones (Green, Yellow, Red) are areas specified in *Table 1 - Channel Details* and *Figure 1 – Green, Yellow and Red Zones* found in *Schedule 2 – Approved Plans* of the environmental authority.

Schedules

Schedule 1 – Approved Reports

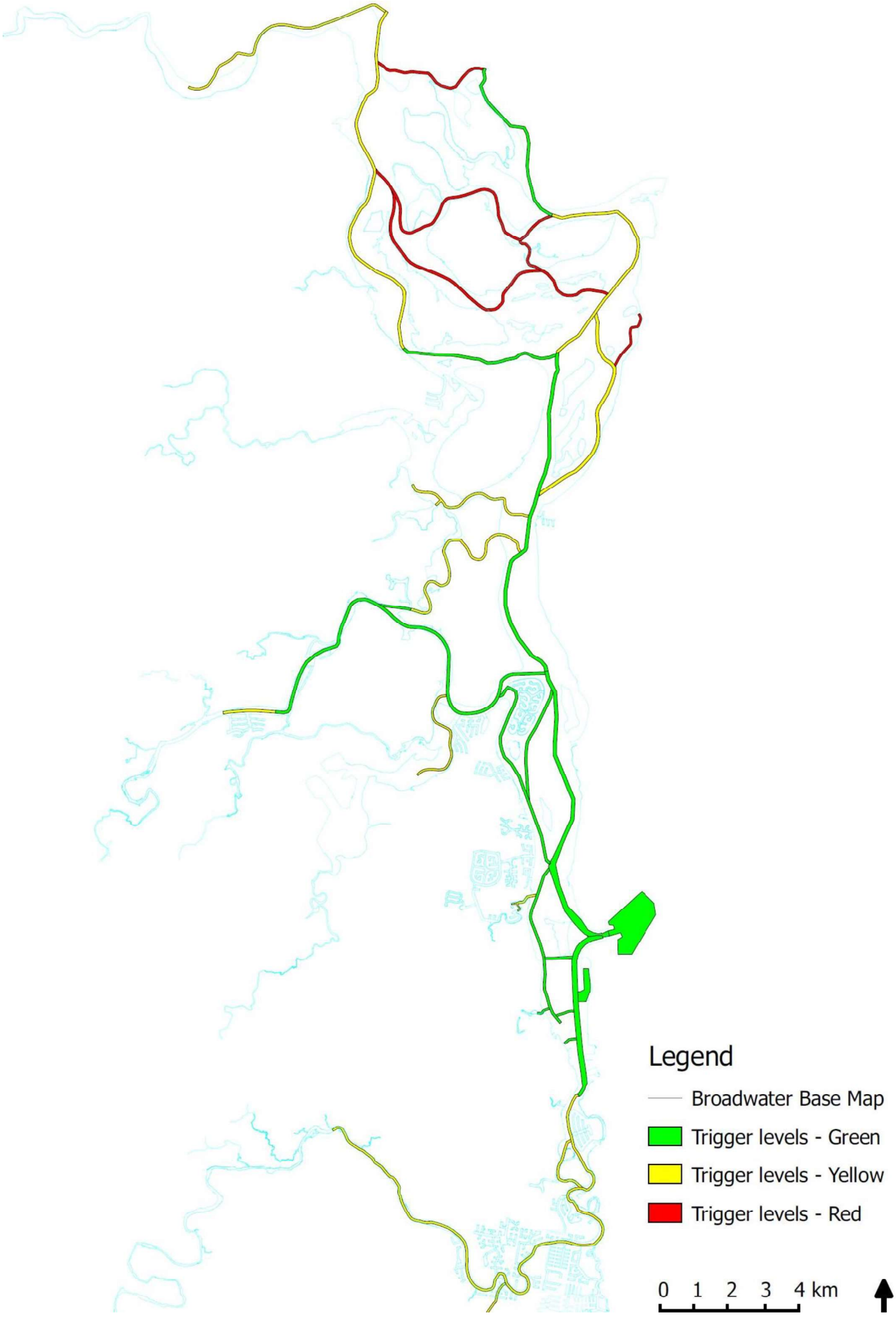
Drawing/Report title	Prepared by	Date	Reference no.	Version/Issue
*Gold Coast Waterways Sand Management Plan Incorporating an Environmental Management Framework (*SMP/EMP) and Appendices	GOLD COAST WATERWAYS AUTHORITY; CITY OF GOLD COAST	March 2020	N/A	Revision 3

Schedule 2 – Approved Plans

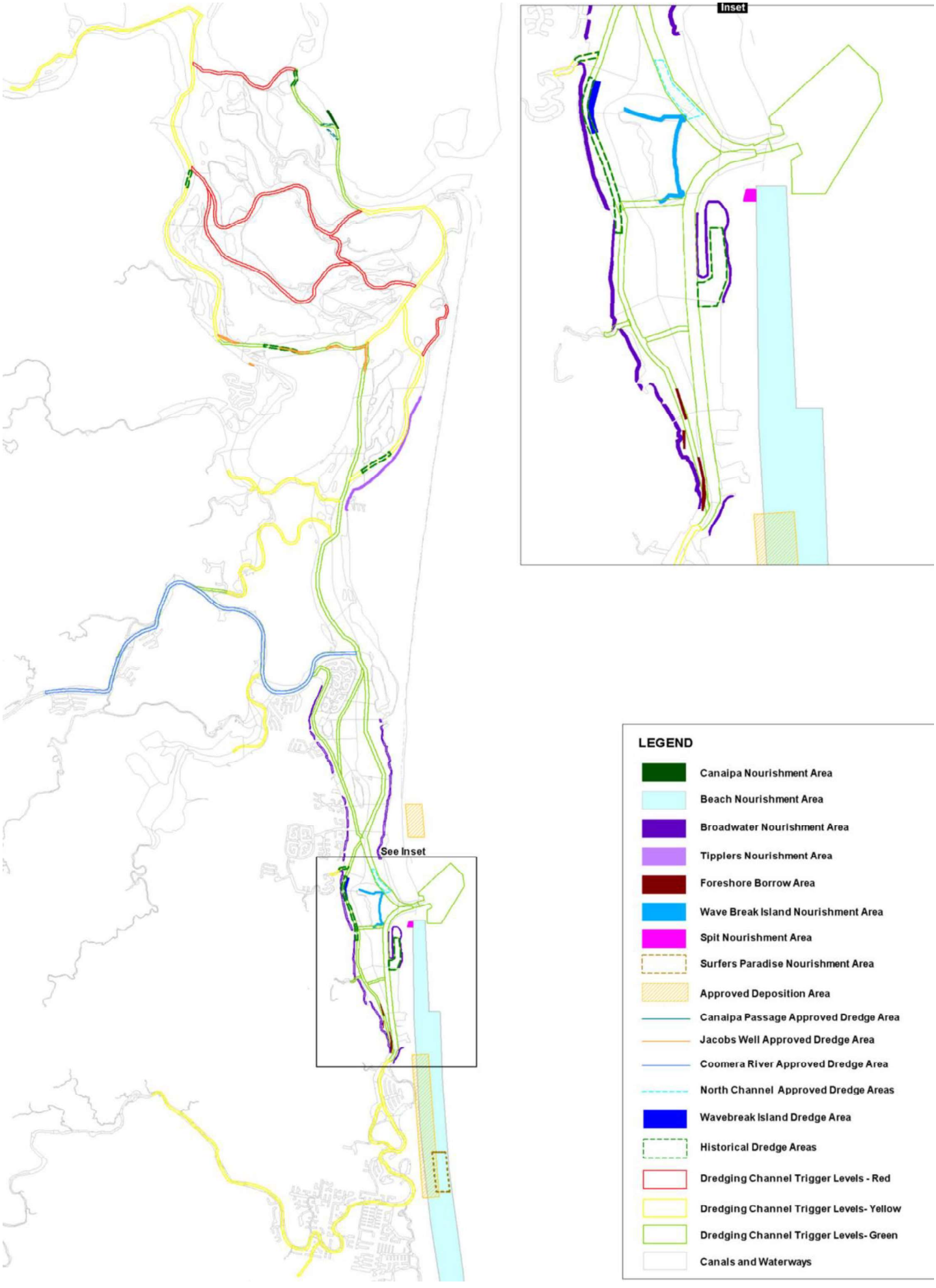
The following plans referenced in this permit are attached:

1. Figure 1 – Green, Yellow and Red Zones
2. Table 1 – Channel Details
3. Dredged Material Placement Areas

END OF PERMIT


Legend
Broadwater Base Map
Trigger levels - Green
Trigger levels - Yellow
Trigger levels - Red
0 1 2 3 4 km

Channel	SMP Tigger Level	Type	Zone	Design Depth (m)	Insurance Depth (m)	Total Maximum Dredge Depth (m) (LAT)	Width (m)	Start Chainage	End Chainage
Biggera Creek	Yellow	Secondary	Rivers	1.0	0.5	**1.5**	**30**	3680	4340
Boobegan Creek	Yellow	Tertiary	Rivers	1.0	0.5	**1.5**	**30**	15250	16524
Canaipa Passage	Green	Secondary	Northern	2.5	0.5	**3.0**	**40**	25527	30940
Chevron Channel	Yellow	Tertiary	Rivers	1.0	0.5	**1.5**	**40**	6629	8681
Coombabah Creek	Yellow	Tertiary	Rivers	1.0	0.5	**1.5**	**30**	12400	15985
Coomera River (North Arm)	Yellow/Green *	Secondary	Central	1.0	0.5	**1.5**	**40**	12700	20270
Coomera River (South Arm)	Green	Primary	Broadwater	3.0	0.5	**3.5**	**40**	8623	21372
Coomera River Upper Reach	Yellow	Tertiary	Rivers	2.5	0.5	**3.0**	**40**	21372	22919
Eden Island Channel	Red	Secondary	Northern	2.5	0.5	**3.0**	**40**	30490	37699
Fishermens Channel	Red	Secondary	Northern	2.0	0.5	**2.5**	**40**	33087	36765
Jumpinpin Bar Channel	Yellow	Secondary	Northern	2.5	0.5	**3.0**	**40**	18728	25527
Labrador Channel	Green	Secondary	Broadwater	2.0	0.5	**2.5**	**40**	2832	9300
Labrador Channel (Northern Area)	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**40**	2983	3266
Loders Creek	Green	Secondary	Broadwater	2.0	0.5	**2.5**	**30**	7120	7559
Logan River	Yellow	Tertiary	Northern	2.0	0.5	**2.5**	**30**	34635	41600
Main Channel North	Yellow/Green *	Primary	Northern	2.5	0.5	**3.0**	**40**	18729	34635
Main Channel South	Green	Primary	Central	2.5	0.5	**3.0**	**60**	8842	18758
Marine Stadium	Green	Secondary	Broadwater	3.0	0.5	**3.5**	**-**	2675	2930
McCoy's Creek	Yellow	Tertiary	Rivers	2.0	0.5	**2.5**	**30**	17065	17283
McKenzies Channel	Red	Secondary	Northern	2.0	0.5	**2.5**	**40**	23652	24726
Nerang River	Yellow	Tertiary	Rivers	1.0	0.5	**1.5**	**40**	5196	23582
North Channel	Green	Primary	Broadwater	3.5	0.5	**4.0**	**60**	1385	8842
North Channel (Area A- Seaway Entrance)	Green	Secondary	Broadwater	5.0	0.5	**5.5**	**120**	0	1385
Olympic Pool Channel	Green	Secondary	Broadwater	2.0	0.5	**2.5**	**30**	3470	3935
Pimpama River	Yellow	Tertiary	Rivers	2.0	0.5	**2.5**	**30**	13865	18100
Ray Newlyn Channel	Green	Secondary	Broadwater	2.0	0.5	**2.5**	**30**	2690	3343
Seaway Entrance	Green	Primary	Ocean	6.0	0.5	**6.5**	**-**	0	1176
South Channel	Green	Primary	Broadwater	4.5	0.5	**5.0**	**100**	0	5196
South Channel (Area B)	Green	Secondary	Broadwater	6.0	0.5	**6.5**	**100**	0	5196
South Wavebreak Island Channel	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**40**	1050	1950
Sovereign Island Channel	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**40**	8150	11636
Tabby Tabby Island Channel	Red	Tertiary	Northern	2.0	0.5	**2.5**	**40**	28465	37909
The Bedroom Channel	Red	Tertiary	Northern	1.0	0.5	**1.5**	**30**	19230	21145
Tipplers Passage	Yellow	Secondary	Northern	2.0	0.5	**2.5**	**60**	14483	21020
Wave Break Island Channel	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**40**	1059	1950
West Crab Island Channel	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**40**	2710	8920
West Crab Island Channel Crossover (Area F)	Green	Secondary	Broadwater	2.5	0.5	**3.0**	**220**	2800	3000
Whalleys Gutter	Red	Secondary	Northern	2.0	0.5	**2.5**	**40**	21044	23652


Inset
See Inset
LEGEND
Canaipa Nourishment Area
Beach Nourishment Area
Broadwater Nourishment Area
Tipplers Nourishment Area
Foreshore Borrow Area
Wave Break Island Nourishment Area
Spit Nourishment Area
Surfers Paradise Nourishment Area
Approved Deposition Area
Canaipa Passage Approved Dredge Area
Jacobs Well Approved Dredge Area
Coomera River Approved Dredge Area
North Channel Approved Dredge Areas
Wavebreak Island Dredge Area
Historical Dredge Areas
Dredging Channel Trigger Levels - Red
Dredging Channel Trigger Levels- Yellow
Dredging Channel Trigger Levels- Green
Canals and Waterways