

OUR WATER STORY, IS YOUR WATER STORY

Your ref: AP2022/006

25 June 2024

Office of the Coordinator-General
Planning and Development Services
Attention: Melanie Harris – Manager
Via email: Melanie.Harris@coordinatorgeneral.qld.gov.au

Dear Melanie

Fitzroy to Gladstone Pipeline – Gladstone State Development Area (GSDA) Approval (AP2022/006) – Minor-Change Application

The following information has been provided to support a minor change application to the GSDA material change of use (MCU) approval related to the Fitzroy to Gladstone Pipeline (FGP) approved on 22 February 2024.

The subject of the minor change application is as follows:

- Administrative amendments; and
- Minor change - 24-hour works.

Further detail is provided below to support each requested change.

1. Administrative amendments

Design drawings

Several design drawings listed in Table 1 under Condition 1.1 are not the latest version supplied to the Office of the Coordinator-General (OCG) in the Gladstone Area Water Board's (GAWB) response to an information request on the MCU application dated 23 October 2023.

Also drawing revisions supplied in the GAWB response to a subsequent information request dated 8 December 2023 are listed in Table 1 under Condition 1.1, however, the dates of these drawings need to be corrected.

Refer to **Attachment A** for a comparative list of the relevant drawings.

GAWB requests Table 1 under Condition 1.1 be updated accordingly.

Management plans

GAWB requests that the Construction Environmental Management Plan (CEMP) referenced in Table 1 under Condition 1.1 be amended from 1151-DL00-GWB-XEV-MAP-001; Rev 0, Issue 2 (May 2023) to 1151-DL00-GWB-XEV-MAP-00001; Rev 1, Issue 2 (July 2023) as per the Stanwell to Gladstone Infrastructure Corridor State Development Area (SGIC SDA) MCU approval conditions (AP2022/018 dated 31 July 2023) to ensure consistency of management documentation across the project.

The requested change would require the following conditions with references to the CEMP in the GSDA MCU approval to be updated:

- Condition 1.1, Table 1 – Approved plans and documents;
- Condition 3.1 – Construction Environmental Management Plan; and
- Condition 5.3 – Vegetation management.

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GAWB also requests the Special Area Plan – Larcom Creek Micro-tunnel Crossing (SAP) referenced in Table 1 under Condition 1.1 be amended from Rev 0 dated 21 November 2022 to Rev 2 dated 2 June 2023.

These versions of the FGP CEMP and Larcom Creek SAP were provided to the OCG on 11 July 2023 and 5 June 2023 respectively. These documents were initially provided to the Department of Climate Change, Energy, the Environment and Water (DCCEEW) on 28 August 2023 and specifically for the GSDA on 10 April 2024, and are those as published on the GAWB website (at <https://www.gawb.qld.gov.au/projects/fitzroy-to-gladstone-pipeline/>) as required by Condition 1 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cwth) approval EPBC2007/3501 (dated 20 June 2022), and are distributed to regulators / other interested parties as required.

In relation to these management plans, it is further noted that:

- Appendix A of the CEMP (i.e., Erosion and Sediment Control (ESC) Plan) has been amended since July 2023 (in accordance with condition 3.1 – CEMP must be current and available), and will soon replace that version currently uploaded to the GAWB FGP website. The updated ESC Plan was provided to the OCG on 20 June 2024 to respond to Amanda Koenig's email of 3 June 2024 seeking an update on actions related to the ESC non-compliance and opportunity for improvement identified in the SGIC SDA independent audit report dated 21 May 2024; and
- An update of the Larcom Creek Special Area Plan (SAP, Rev 3, 11 June 2024) was provided to the Department of Climate Change Energy Environment and Water (DCCEEW) on 10 June 2024 to seek confirmation that works at this location outside the May to September window do not trigger matters of national environmental significance (MNES) warranting further assessment from DCCEEW. Should such feedback be received from DCCEEW, and subsequent approval of the updated SAP by OCG, be forthcoming prior to an approval of this minor change application, it is requested that this updated version be referenced rather than the Rev 2 June 2023 version as indicated above.

Condition 12

The condition numbering skips from 11 to 13. Condition referencing after condition 11 needs to be amended accordingly.

2. Minor change - 24-hour time-critical works

Condition 8.1 specifies approved construction days and hours of work as follows:

Construction works will be limited to between 6:30am to 6:30pm Monday to Saturday. Construction works will be permitted on Sunday between 6:30am to 6:30pm where consultation has occurred and written agreement by the sensitive receptor received where construction impacts on a sensitive receptor/s' property. A copy of the written agreements with sensitive receptor/s must be submitted to the Coordinator-General two days prior to construction occurring on a Sunday that impacts a sensitive receptor/s' property that adjoins the right of way.

A change to the approved construction hours is sought to enable time-critical works to be conducted 24-hours a day, for trenchless crossing construction. Refer to **Attachment B** for the relevant trenchless crossing details (**Table B.1**) and locations (**Table B.2**).

It is noteworthy that 24-hour work will only occur during the construction period. There will be no ongoing potential nuisance to sensitive receptors from the operation of the pipeline. Refer to **Attachment B (Table B.1 and associated figures)** for details of nearest sensitive residential receptors. A high-level assessment of potential impacts to sensitive fauna receptors has been undertaken to address previous Department of Environment Science and Innovation (DESI) comments provided in a meeting on the 15 March 2024 related to a previous 24-hour time-critical works MCU change application for the SGIC SDA pipeline (refer to **Table B.3 in Attachment B**).

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The requested change maximises the opportunity for specialist tunnel boring contractors to complete these vital FGP works within the current construction schedule i.e., by end of 2024.

3. Application requirements

Table 1 lists the application requirements of Schedule 2, Section 4 (Making a change application for an SDA approval) of the GSDA Development Scheme (May 2022) and how they have been addressed in this application. It is noted that Schedule 2, Section 4(1b) relevant to this change application requires the same information as Schedule 2, Section 2.1(2) as if a reference to an application were to the change application.

Table 1: GSDA Development Scheme Requirements

Requirement	Comment / Application Reference
2.1: Application stage 2: To be a properly made application, the application must:	
(a) be made to the Coordinator-General in the approved form	The change application has been lodged via the SDA application and request online form.
(b) include: (i) a clear and accurate description of the land subject to the application and (ii) the proponent's name, address and contact details	(i) The land description is included in Attachment B (Table B.2) ; (ii) GAWB are the proponent for this application, with contact details provided in this covering letter and on the SDA application and request online form.
(c) identify the development for which approval is being sought	The subject of the change application is the FGP GSDA MCU approval AP2022/006 (dated 22 February 2024) for a utility installation (water pipeline) as identified in this covering letter and on the SDA application and request online form.
(d) subject to subsection (3), include the written consent of the owner of the land	Not applicable, noting Schedule 2, Section 4(2a) states that consent of the owner is not required to make a minor change application.
(e) state the referral triggers under the Planning Act (and referral entities if known) for the application.	Section 2.4: State Interests and Referral Triggers of the GHD (26 June 2022) <i>Fitzroy to Gladstone Pipeline Project: Planning Report for Material Change of Use for the Pipeline within the GSDA</i> (GHD 2022 Planning Report) remains valid to this change application.
(f) if the application is part of a larger development, include a description of the larger development and details of how the application relates to the larger development	The change application is part of the wider FGP. No change to the approved use is proposed i.e., the use will remain material transport and services infrastructure (water pipeline). The change request is limited to administrative amendments and approved working hours related to trenchless crossing construction.

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Requirement	Comment / Application Reference
(g) include a statement on whether the development has been, is or will be subject to an EIS or IAR	<p>A bilateral Environmental Impact Statement (EIS) process was completed for the overall Project under the <i>State Development and Public Works Act 1971</i> (SDPWO Act) and <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act) (i.e., bilateral process).</p> <p>The OCG issued an evaluation of the project's EIS on 2 February 2010 which established the framework for the State approvals required for the Project (noting the report lapsed in February 2018).</p> <p>The Commonwealth approval was received on 4 November 2011 and remains valid (latest amendment dated 20 June 2022).</p>
<p>(h) be accompanied by:</p> <p>(i) a detailed and comprehensive planning report and</p> <p>(ii) if one has been prepared, an EIS or IAR relevant to the application including a Coordinator-General's report and</p> <p>(iii) payment of the relevant fee, if prescribed by regulation.</p>	<p>(i) The GHD 2022 Planning Report remains valid to this change application, with the exception of the administrative amendments and the 24-hour time critical works as outlined in this supporting document (included in Attachment A and Attachment B).</p> <p>An assessment against the following GSDA Development Assessment Framework is provided in Attachment C:</p> <ul style="list-style-type: none"> • Minor change requirements (Table C.1); • The strategic vision for the GSDA (Table C.2); • The overall objectives for development in the GSDA (Table C.3); • The preferred development intent for the materials transportation and services corridor precinct (Table C.4); and • SDA wide assessment criteria (Table C.5). <p>It is noted this assessment (excluding against the minor change requirements) provides a minor update from the GHD 2022 Planning Report assessment, where specifically relevant to the subject to this change application (i.e., administrative amendments and the 24-hour time critical works).</p> <p>(ii) Refer to response to (g) above.</p> <p>(iii) A fee waiver request was submitted to OCG on 11 June 2024. The fees relevant to this application, when confirmed, will be paid and</p>

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Requirement	Comment / Application Reference
	a copy of the remittance advice will be provided to OCG.

If you require any further information or would like to discuss any aspect of this letter, please contact me on mobile: 0418 625 406, email: lstalley@gawb.qld.gov.au or mail: Level 1, 52 Merivale Street, South Brisbane QLD 4101.

Yours faithfully



Luke Stalley

FGP Approvals Manager

ATTACHMENT A – ADMINISTRATIVE AMENDMENTS

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Table A.1: Approved plans in Table 1 of the GSDA MCU approval compared to RFI plans provided

MCU table information				RFI details	
Title	Prepared By	Document No	Date	Rev	Date
DL07 Connection Details – MMP Tie in Pipework Plan	W3+/MBJV as amended by GPC	1151-DL07-W3P-CIV-DRG-27013; Rev 3	26/09/2023, amended 08/12/2023	3	7/12/2023
DL07 Connection Details – MMP Tie in Pipework Sections	W3+/MBJV	1151-DL07-W3P-CIV-DRG-27014; Rev 1	26/09/2023	1	27/10/2023
DL05 Pipeline CH 96485.10 – 97185.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65139; Rev B	4/05/2023	2	26/09/2023
DL05 Pipeline CH 97185.10 – 97885.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65140; Rev B	4/05/2023	2	13/10/2023
DL05 Pipeline CH 97885.10 – 98585.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65141; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 98585.10 – 99285.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65142; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 99285.10 – 99985.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65143; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 99985.10 – 100685.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65144; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 100685.10 – 101385.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65145; Rev B	4/05/2023	2	13/10/2023
DL05 Pipeline CH 101385.10 – 102085.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65146; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 102085.10 – 102785.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65147; Rev B	4/05/2023	2	13/10/2023
DL05 Pipeline CH 102785.10 – 103485.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65148; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 103485.10 – 104185.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65149; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 104185.10 – 104885.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65150; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 104885.10 – 105585.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65151; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 105585.10 – 106285.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65152; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 106285.10 – 106985.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65153; Rev B	4/05/2034	1	26/09/2023
DL05 Pipeline CH 106985.10 – 107685.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65154; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 107685.10 – 108385.10	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65155; Rev B	4/05/2023	1	26/09/2023
DL05 Pipeline CH 108385.10 – 108597.24	W3+/MBJV	1151-DL05-W3P-PLE-DRG-65156; Rev B	4/05/2023	1	26/09/2023
DL07 Pipeline CH 108899.44 – 109579.44	W3+/MBJV	1151-DL07-W3P-PLE-DRG-67002; Rev B	4/05/2023	3	27/09/2023

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MCU table information				RFI details	
Title	Prepared By	Document No	Date	Rev	Date
DL07 Pipeline CH 109579.44 – 110279.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67003; Rev B	4/05/2023	0	27/09/2023
DL07 Pipeline CH 110279.44 – 110979.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67004; Rev B	4/05/2023	3	27/09/2023
DL07 Pipeline CH 110979.44 – 111679.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67005; Rev B	4/05/2023	0	27/09/2023
DL07 Pipeline CH 111679.44 – 112379.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67006; Rev B	4/05/2023	3	27/09/2023
DL07 Pipeline CH 112379.44 – 113079.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67007; Rev B	4/05/2023	0	27/09/2023
DL07 Pipeline CH 113079.44 – 113779.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67008; Rev B	4/05/2023	0	27/09/2023
DL07 Pipeline CH 113779.44 – 114479.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67009; Rev B	4/05/2023	0	27/09/2023
DL07 Pipeline CH 114479.44 – 115179.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67010; Rev B	4/05/2023	3	27/09/2023
DL07 Pipeline CH 115179.44 – 115879.44	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67011; Rev B	26/09/2023	3	27/09/2023
DL07 Pipeline CH 115879.44 – 116568.03	W3+/MBJV	1151-DL07-W3P-PLE- DRG-67012; Rev 3	27/09/2023	3	7/12/2023
Gladstone Mt Larcom Road Critical Crossing: General Arrangement	W3+/MBJV	1151-DL07-W3P-CIV- DRG-37020; Rev B	4/05/2023	1	26/09/2023
Gladstone Mt Larcom Road Critical Crossing: Details	W3+/MBJV	1151-DL07-W3P-CIV- DRG-37021; Rev B	4/05/2023	2	13/10/2023
DL07 Standard Details: Isolation Valve Assembly	W3+/MBJV	1151-DL07-W3P-CIV- DRG-17001; Rev D	4/05/2023	0	2/10/2023
DL07 Standard Details: Air Valve Assembly	W3+/MBJV	1151-DL07-W3P-CIV- DRG-17002; Rev D	4/05/2023	0	2/10/2023
DL07 Standard Details: Scour Assembly	W3+/MBJV	1151-DL07-W3P-CIV- DRG-17003; Rev D	4/05/2023	0	2/10/2023

KEY

Text: RFI 1 response from GAWB to OCG dated 23 October 2023 (updated versions provided as noted)

[Text](#): RFI 2 response from GAWB to OCG dated 8 December 2023 (revisions correct, dates need revising as noted)

ATTACHMENT B – 24-HR CRITICAL WORK DETAILS

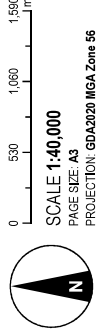
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Table B.1: Critical works - trenchless crossings within the Gladstone State Development Area

Chainage	Trenchless Crossing	Method	Estimated duration – normal work hours	Nearest sensitive receptor (Note 1)
97400	Gladstone Mt Larcom Road / North Coast Line (Aldoga)	110 m microtunnel	60 days	1.2 km NW
101100	East End Mine Rail Link / Blackwater System	90 m microtunnel	57 days	1.8 km NE
102500	Larcom Creek	70 m microtunnel	80 days	2.2 km NW
110250	Mount Larcom Yarwun Road / North Coast Line (Yarwun)	62 m microtunnel	54 days	560 km NW
111700	Gladstone - Mt Larcom Road Crossing	108 m microtunnel	57 days	750 m SE
112500	Gladstone - Mt Larcom / Targinnie Road	152 m microtunnel	62 days	500 m SE
114400	RTA Slurry Crossing	66 m augur bore	40 days	1.1 km SW
115800	RTA Coal Conveyor Crossing	38 m augur bore	37 days	2.5 km SW
NOTE: <ol style="list-style-type: none"> Refer to sensitive receptor mapping on the following pages. To mitigate potential impacts on these receptors, the following works will not occur outside the hours of 6:30am and 6:30pm on Monday to Sunday: <ul style="list-style-type: none"> Site set up; Mobilisation of plant; Installation and removal of sheet piles; Hauling surplus excavated material; Movement of topsoil or material stockpiles; Loading or unloading of trucks; Major deliveries including – concreting trucks, quarry material (e.g., sand); Concrete/grout pumping; Demolition of concrete thrust blocks; and Blasting. 				

- LEGEND
- Pipeline Alignment (P2022_02_2010_0_Alignment)
 - Trenchless Crossings
 - Sensitive Receivers
 - Community Areas
 - Property Boundaries
 - State Development Areas
 - Gladstone State Development Area
 - Stonewall to Gladstone Infrastructure Corridor State Development Area

SOURCE
Pipeline alignment, ROW areas and property boundaries from W3Plus
Aerial imagery from QLD Spatial. (Latest Available when Printed)



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PROJECTION: GDA2020 MGA Zone 56

GLADSTONE AREA WATER BOARD

FITZROY TO GLADSTONE PIPELINE

SENSITIVE RECEPTORS

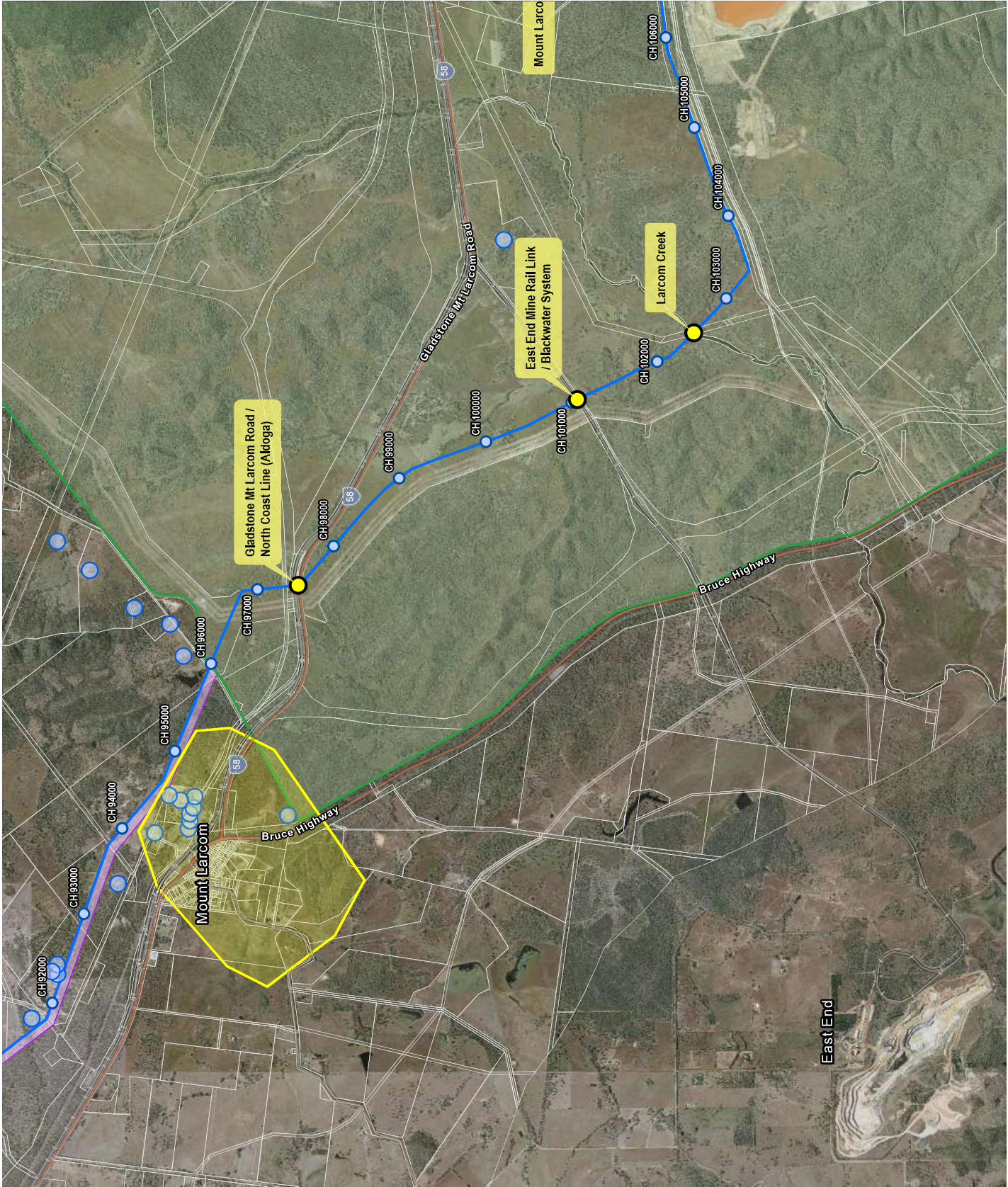
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DOWELL
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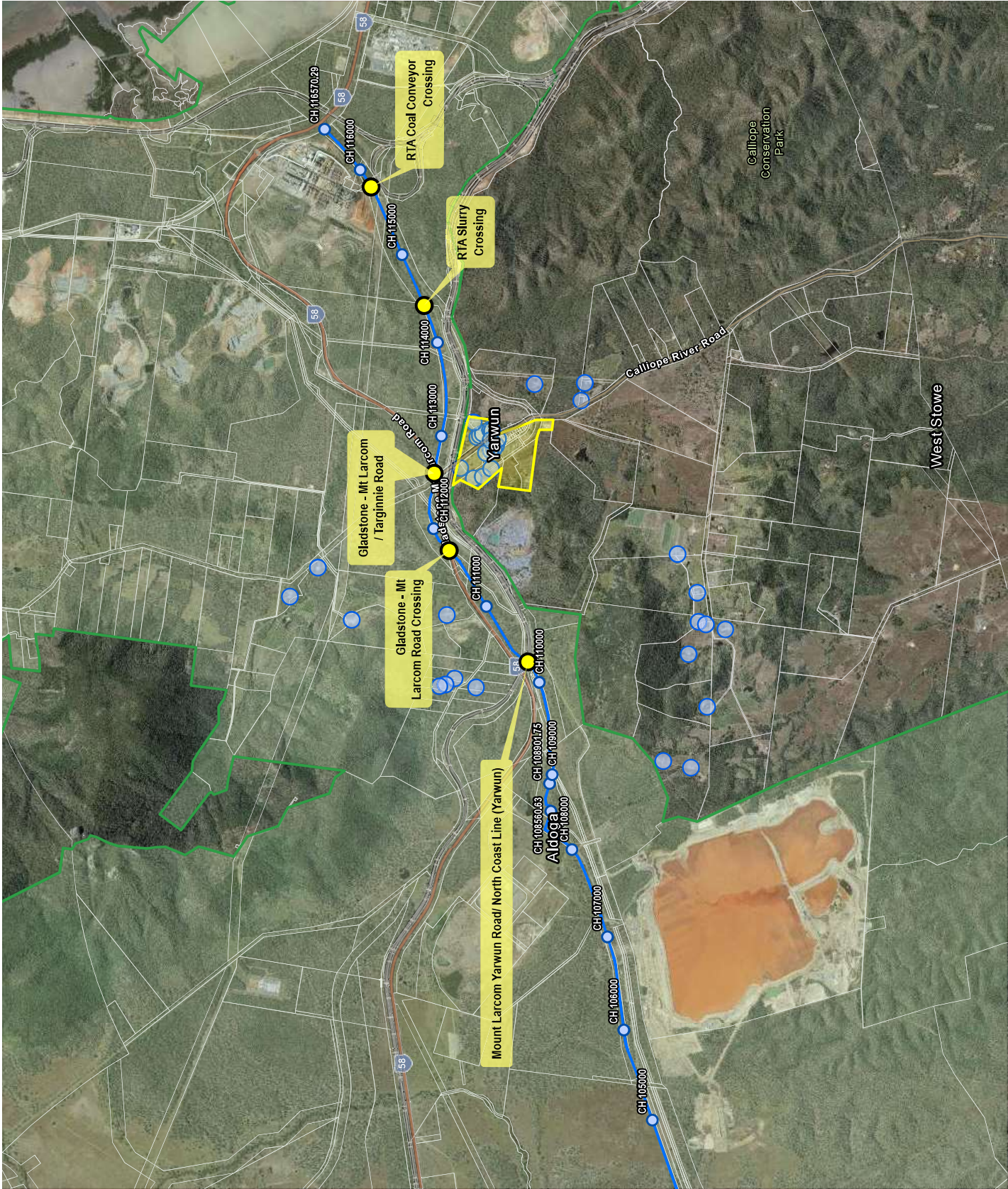
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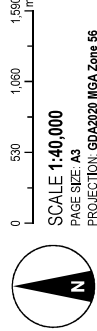
REV: A





- LEGEND**
- Pipeline Alignment (P2022_02_2010_0_Alignment)
 - Trenchless Crossings
 - Sensitive Receptors
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GLADSTONE AREA WATER BOARD
FITZROY TO GLADSTONE PIPELINE
SENSITIVE RECEPTORS

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Table B.2: Properties traversed by the FGP GSDA trenchless crossing locations (excerpt of Table 3.1 of the GHD 2022 Planning Report)

Approx. Chainage	Trenchless Crossing	GAWB Property ID #	Lot and plan	Landholder	Tenure	Suburb	Easements intersected at trenchless crossing
97400	Gladstone Mt Larcom Road / North Coast Line	214	1 SP232672	Aurizon	Leased Land	Aldoga	NIL
		215	140 SP122252				
		216 & 216B	N/A (Gladstone Mt Larcom Road)	Department of Transport and Main Roads (TMR)	Road Reserve	East End	NIL
101100	East End Mine Rail Link / Blackwater System	216A	2 RP616271	Aurizon	Freehold	East End	NIL
		217 & 220	25 SP307529	OCG	Freehold	East End	NIL
		218	3 SP101558	Aurizon	Leased Land	East End	NIL
102500	Larcom Creek	219	1 SP260289				
		220	25 SP307529	OCG	Freehold	East End	N on SP157674 to Powerlink
		221	N/A (Larcom Creek)	Administered by Department of Resource (DoR)	Unallocated State land (USL)	East End	NIL
		222	20 SP272417	OCG	Freehold	East End	M on SP157673 to Powerlink
		233	N/A (Mount Larcom Yarwun Road Reserve)	Gladstone Regional Council (GRC)	Road Reserve	West Stowe	NIL
110250	Mount Larcom Yarwun Road / North Coast Line (Yarwun)	234	91 SP122250	Aurizon	Leased Land	West Stowe	NIL

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Approx. Chainage	Trenchless Crossing	GAWB Property ID #	Lot and plan	Landholder	Tenure	Suburb	Easements intersected at trenchless crossing
		235	13 RP620157	Gladstone Ports Corporation (GPC)	Freehold	Yarwun	NIL, but adjacent to K on RP621003 to Alinta Energy (Jemena)
		238	22 SP115225				NIL
111700	Gladstone Mt Larcom Road Crossing	239 & 242B	N/A (Gladstone Mt Larcom Road)	TMR	Road Reserve	Yarwun	NIL
		240	31 SP129157				
		241	25 SP115226	GPC	Freehold	Yarwun	NIL
112500	Gladstone Mt Larcom / Targinnie Road	244	N/A (Gladstone Mt Larcom Road)	TMR	Road Reserve	Yarwun	NIL
114400	RTA Slurry Crossing	245	25 CP859457				
		250	54 SP137048				
115800	RTA Coal Conveyor Crossing	251	7 SP145439	GPC	Freehold	Yarwun	NIL

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Table B.3: Listed fauna species confirmed as present or likely to occur at the 24-hr trenchless crossing works locations. Data is taken from the Terrestrial and Aquatic Ecology Assessment (GHD 2022) that was included as Appendix E of the GHD 2022 Planning Report

Matter of State Environmental Significance (MSES)	Gladstone Mt Larcom Road / North Coast Line (Aldoga)	East End Mine Rail Link / Blackwater System	Larcom Creek	Mount Larcom Yarwun Road/ North Coast Line (Yarwun)	Gladstone - Mt Larcom Road Crossing	Gladstone - Mt Larcom / Targinnie Road	RTA Slurry Crossing	RTA Coal Conveyor Crossing
Glossy black cockatoo (Note 1a)	No	Potential habitat ~150m away	Potential habitat	Potential habitat ~150m away	Potential habitat ~300m away	Potential habitat ~350m away	No	No
Squatter Pigeon (southern) (Note 1b)	No	Potential foraging habitat ~100m away	Potential foraging habitat ~350m away	Potential foraging habitat ~150m away	Potential foraging habitat ~200m away	Potential foraging habitat ~350m away	No	No
White throated Needletail	No	No	No	No	No	No	No	No
Powerful owl	No	No	No	No	No	No	No	No
Greater Glider (southern and central)	Potential foraging habitat adjacent	Potential foraging habitat ~150m away	Potential foraging habitat	Potential foraging and denning habitats ~100 & 350m away respectively	Potential foraging habitat adjacent	Potential foraging habitat ~100m away	Potential foraging and denning habitats ~350 & 50m away respectively	Potential foraging and denning habitats ~100 & 350m away respectively
Yellow-bellied Glider (south-eastern)	No							
Koala (Note 1b)	Potential habitat adjacent	Potential habitat ~150m away	Potential habitat	Potential habitat adjacent	Potential habitat adjacent	Potential habitat adjacent	Potential habitat adjacent	Potential habitat ~100m away
Grey-headed Flying Fox	Potential habitat adjacent	Potential habitat ~150m away	Potential habitat	Potential habitat adjacent	Potential habitat adjacent	Potential habitat adjacent	Potential habitat adjacent	Potential habitat ~100m away

Matter of State Environmental Significance (MSES)	Gladstone Mt Larcom Road / North Coast Line (Aldoga)	East End Mine Rail Link / Blackwater System	Larcom Creek	Mount Larcom Yarwun Road/ North Coast Line (Yarwun)	Gladstone - Mt Larcom Road Crossing	Gladstone - Mt Larcom / Targinnie Road	RTA Slurry Crossing	RTA Coal Conveyor Crossing
<p>TABLE NOTE:</p> <p>1. Confirmed present within the GSDA during: 1(a) Arup 2008 field surveys and 1(b) GHD 2022 field surveys</p> <p>GENERAL NOTES:</p> <p>A. A range of migratory species listed under the EPBC Act and classified as MSES also have the potential to occur within the GSDA; however, suitable habitat at or in the vicinity of the 24-hour works areas is limited spatially relative to habitat in the surrounding landscape. The potential impacts and management measures listed below would also apply to these species.</p> <p>B. Potential impacts:</p> <ul style="list-style-type: none"> Noise: permanent threshold shift (PTS) is most likely to occur at the actual location of the noise source and within the immediate surroundings (i.e., within approximately 50m). Noise levels are not expected to reach PTS levels. However, temporary threshold shift (TTS) noise levels are likely to occur within the immediate construction zone with higher levels of masking predicted to occur up to 70m from the trenchless crossing construction area with low level masking impacts occurring between 70m to 750m. Beyond 750m from the trenchless crossing construction area, no impacts are expected (based on a technical paper by Bottalico, Spoglianti et al, presented at Internoise 2015 and Protest Engineering Pty Ltd Construction Noise & Vibration Assessment: Gladstone to Fitzroy Pipeline, March 2024 V05). <p>All of the species that have the potential to occur based on habitat, have home ranges and spatial movement patterns that are much larger than 70m radius from the construction area. As such and given daytime construction is being undertaken, it is expected that if individuals were present prior to construction commencing, they would move of their own accord to other areas within their home range. Hence, any potential impacts to MSES at each of the 24-hour trenchless crossing construction areas are expected to be low risk.</p> <ul style="list-style-type: none"> Light: artificial lighting required for safety and to facilitate trenchless crossing construction night works has the potential to disturb wildlife and will likely result in the temporary movement of some nocturnal fauna away from the construction area. The nocturnal species that have the highest potential to occur adjacent to the 24-hour trenchless crossing construction areas are the Yellow-bellied Glider and Greater Glider. Potential denning habitat for both species is located at the RTA slurry pipeline and within approximately 350 m of the RTA conveyor and the Gladstone Mt Larcom Road / North Coast Line (Yarwun). Potential foraging habitat is located in the vicinity of all trenchless crossings in the GSDA. Given the home range size of both species, it is expected that if 24-hour trenchless crossing construction activities disrupted their behaviour, they would be able to relocate to other suitable habitat within their home range. Hence, potential impacts of 24-hour trenchless crossing construction activities are expected to be of low risk to these species. <p>C. Management measures: measures to minimise impacts to fauna from noise and artificial light were outlined in the initial GHD 2022 Planning Report and the approved Fitzroy to Gladstone Pipeline CEMP (July 2023). Mitigation measures from these documents that have relevance to the 24-hour trenchless crossing construction areas are as follows:</p>								

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Matter of State Environmental Significance (MSES)	Gladstone Mt Larcom Road / North Coast Line (Aldoga)	East End Mine Rail Link / Blackwater System	Larcom Creek	Mount Larcom Yarwun Road/ North Coast Line (Yarwun)	Gladstone - Mt Larcom Road Crossing	Gladstone - Mt Larcom / Targinnie Road	RTA Slurry Crossing	RTA Coal Conveyor Crossing
<ul style="list-style-type: none"> Using noise dampening devices on machinery wherever practical and all equipment will be maintained and serviced in accordance with manufacturer's instructions to reduce noise levels; Develop a Traffic Management Plan for the construction sites to control vehicle movements and speeds at night to reduce the unnecessary generation of vehicular noise; Minimise the number of vehicles used and vehicle movements; Limit noise intensive construction activities to daylight hours wherever possible to minimise the need for lighting and resultant light spill into adjacent habitat and to reduce noise and vibration impacts on nocturnal fauna species; and Install directional lighting and shields to minimise light spill outside of the immediate work areas having consideration for health and safety requirements (noting the works will ensure compliance with Condition 11 of the SDA approval). 								

ATTACHMENT C – GSDA DEVELOPMENT ASSESSMENT FRAMEWORK

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Table C.1: Assessment against an SDA approval minor change criteria

Consideration	Comment
A minor change to an SDA approval is a change that the Coordinator-General considers does not substantially alter the original SDA approval in a way that would:	
<p>Result in a substantially different development, for example:</p> <ul style="list-style-type: none"> (A) involves a use that is different to the approved use or (B) results in different or additional impacts that have not been assessed as part of the process to gain the original SDA approval 	<p>No change to the approved use is proposed i.e., the use will remain material transport and services infrastructure (water pipeline).</p> <p>The change request is limited to administrative amendments and approved working hours.</p>
If the proposed change would have been included in the process to gain the original SDA approval – have caused:	
<ul style="list-style-type: none"> • the Coordinator-General or a referral entity to request additional information about the change 	<p>The need was indicated in project assessment documentation, including the GHD 2022 Planning Report and approved GAWB CEMP (July 2023).</p> <p>The OCG has received confirmation from referral agencies relevant to the MCU approval that they do not require further information about the proposed change or have anything further to add in relation to advice originally provided on the GSDA MCU application.</p>
<ul style="list-style-type: none"> • a referral entity to make or alter a referral entity submission about the change 	<p>Referral entities have confirmed they do not need to make or alter a submission in relation to the change (refer to response above).</p>
<ul style="list-style-type: none"> • a person to make or alter a submission about the change or substantially alters any other matter of the original SDA approval 	<p>The MCU was not subject to public consultation, and it is considered that the change would not require additional public consultation.</p>
<ul style="list-style-type: none"> • Substantially alters any other matter of the original SDA approval. 	<p>It is considered the change does not alter any other matter of the original SDA approval.</p> <p>Refer also to Table C.2 to Table C.5 responses below.</p>

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Table C.2: Assessment against the Strategic Visions for the GSDA (minor updates to Table 6.2 of the GHD 2022 Planning Report responses relevant to this change application, indicated in blue text)

Strategic Vision	Proposal Response
(a) Be Central Queensland's economic powerhouse, with an efficient concentration of large-scale industry of national, State and regional significance that benefit from the SDA's strategic location near the Port of Gladstone and major road and rail networks.	<p>Complies</p> <p>The FGP GSDA alignment is located within the GSDA. It will support the expanding industrial development of national, State and regional benefit in Gladstone by providing a reliable supply of water for growth of current customers and future demands. The Project is a response to the lower performance of Awoonga Dam in supplying necessary water allocations, which has negative impacts both in terms of drought and demand responses.</p> <p><i>The proposed change provides a scheduling contingency to ensure this vital water supply infrastructure is not unduly delayed.</i></p>
(b) Support development that aligns with the Queensland Government's strategic priorities for the region, particularly related to the hydrogen industry.	<p>Complies</p> <p>The FGP GSDA alignment directly support the strategic priorities of the region by assisting with a reliable supply of water to industry, including hydrogen.</p> <p>GAWB is committed to providing greater certainty of water reliability to support business investment in the emerging hydrogen industry.</p>
(c) Maintain environmental, cultural heritage and community values where possible to support wider ecological processes and provide community benefits.	<p>Complies</p> <p>The FGP GSDA alignment was selected based on a number of requirements including minimising impact upon environment, cultural heritage and community values. Potential impacts and management associated with the underground water pipeline are discussed in Sections 3.5, 3.6, 3.7 and 7 <i>of the GHD 2022 Planning Report which remain valid for this change application (noting updated responses in Table C.5 below).</i></p> <p>Community benefit will be provided by the Project as a result of increasing reliability of water supply to the region for community and industrial users.</p>
(d) The strategic vision is supported by the overall objectives for development and preferred development intents of development precincts within the GSDA.	<p>Complies</p> <p><i>Refer to responses in Table C.3 and Table C.4 below.</i></p>

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Table C.3: Assessment against the Overall Objectives of the GSDA (minor updates to Table 6.3 of the GHD 2022 Planning Report responses relevant to this change application, indicated in blue text)

Strategic Vision	Proposal Response
Capitalise on Gladstone SDA's strategic location and support the role and function of the Port of Gladstone	<p>Complies</p> <p>The FGP GSDA alignment is not reliant on the Port of Gladstone; however, it will support industry and development through increasing water security for the Port of Gladstone.</p>
Identify and implement opportunities for synergies and co-location between other uses, services and infrastructure to minimise waste and inefficiencies	<p>Complies</p> <p>The FGP GSDA alignment is a linear development. The pipeline alignment has considered impacts on land use through a combination of methods including:</p> <ul style="list-style-type: none"> — Being located within the Materials Transportation and Services Corridor Precinct. — Aligning with existing linear infrastructure where practical. — Following property boundaries where practical. — Impacting land that is suitable for the pipeline (such as land parcels not suitable for future larger scale development). <p>These methods, along with consultation with landowners, have identified potential synergies associated with co-location and reduced land sterilisation where possible. Refer to Section Error! Reference source not found. of the GHD 2022 Planning Report for further information.</p>
Use land and infrastructure efficiently and be adequately serviced by infrastructure	<p>Complies</p> <p>The FGP GSDA alignment is considered to be infrastructure itself. The FGP GSDA alignment will require support from the local transport network where available. No other permanent infrastructure is required to service the alignment.</p> <p>The proposed underground pipeline has been sited taking in consideration existing infrastructure and other land uses and to minimise any impact.</p> <p>There is the potential for the proposed works to impact on existing utilities. GAWB and its construction contractor (MBJV) are working with utility providers to ensure their requirements are met during construction, and where required have agreements in place or in the latter stages of negotiation with third party asset managers. Refer to Section Error! Reference source not found. of</p>

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Strategic Vision	Proposal Response
	the GHD 2022 Planning Report for further information.
Ensure the integrity and functionality of the Gladstone SDA, including infrastructure corridors and future development opportunities, is maintained and protected from incompatible land uses	<p>Complies</p> <p>It is considered that the FGP GSDA alignment will maintain functionality of the GSDA as the infrastructure supports industrial development and consequently does not introduce incompatible uses.</p>
Ensure new lots are appropriately sized to accommodate preferred development	<p>Not applicable</p> <p>No new lots are proposed to be created. Nevertheless, the FGP GSDA alignment siting has minimised impact to potential new development.</p>
Be designed, constructed, and operated to a high quality consistent with best practice	<p>Complies</p> <p>The FGP GSDA alignment is being designed in accordance with current design requirements for water pipelines. During construction MBIJV will meet design requirements, any permits/approval conditions, other regulatory requirements and best practice methods as appropriate. Refer to the approved GAWB CEMP (July 2023).</p> <p>Operation of the pipeline will be in accordance with an OEMP. The OEMP will be prepared and updated as needed, for example upon change in site conditions or best practice.</p>
Avoid impacts on environmental, cultural heritage, and community values (including sensitive land uses), or minimise or mitigate impacts where they cannot be avoided and offset any residual impacts	<p>Complies</p> <p>Impacts to environmental values are unavoidable; however, they will be minimised and managed by reducing the footprint (i.e. ROW) in sensitive areas and implementing the approved GAWB CEMP (July 2023).</p> <p>Impacts to community values are anticipated to be minor due to the nature of the Project (a buried water pipeline), and the predominately rural and developed nature of the area. Nevertheless, the approved GAWB CEMP (July 2023) will be implemented to mitigate impacts.</p> <p>The surveyed areas in the Approved CHMP identified that the risk of impacts to cultural heritage are low. To mitigate impacts, the requirements of the Approved CHMP will be implemented.</p> <p>Potential impacts and management associated with the FGP GSDA alignment are further discussed in Sections 3.5, 3.6, 3.7 and 7 of the GHD 2022</p>

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Strategic Vision	Proposal Response
	<p>Planning Report which remain valid for this change application (noting updated responses in Table C.5 below).</p> <p>Operational impacts are anticipated to be minor; however, environmental, cultural heritage and community values will be managed in accordance with an OEMP.</p>
Not adversely impact on the outstanding universal values of the Great Barrier Reef World Heritage Area (GBRWHA)	<p>Complies</p> <p>The FGP GSDA alignment will not directly impact upon the GBRWHA. The approved GAWB CEMP (July 2023) will be implemented to protect and maintain water quality values, as well as any relevant downstream GBRWHA values. The most southern extent of the FGP GSDA alignment is located approximately 2 km from the boundary of the GBRWHA and 8 km from the Great Barrier Reef (GBR) Marine Park.</p> <p>The FGP GSDA alignment will be operated in accordance with an OEMP which will include mitigation of water quality impacts to the surrounding catchments that drain to Port Curtis.</p> <p>Refer to Section 7 of the GHD 2022 Planning Report for further information.</p>
Manage the risks associated with the projected impacts of climate change and natural hazards to protect people and property	<p>Not applicable</p> <p>The Project is a response to the lower performance of Awoonga Dam, which may worsen as a result of climate change, in supplying necessary water allocations, which has negative impacts both in terms of drought and demand responses.</p> <p>The FGP GSDA alignment is not required to consider flood immunity. Ground levels will be returned to natural profiles following construction.</p>
Manage impacts of air quality on the capacity of the Gladstone airshed.	<p>Complies</p> <p>Impacts to air quality as a result of dust and exhaust emissions may occur during construction, these will be managed in accordance with the approved GAWB CEMP (July 2023).</p> <p>The Project will not negatively impact the capacity of Gladstone's airshed.</p>

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Table C.4: Materials Transportation and Services Corridor Precinct – Preferred Development Intent Assessment (minor updates to Table 6.4 of the GHD 2022 Planning Report responses relevant to this change application, indicated in blue text)

Strategic Vision	Proposal Response
<p>This precinct provides an efficient, effective and safe route for linear infrastructure to link development in the GSDA and the Port of Gladstone.</p>	<p>Complies</p> <p>The FGP GSDA alignment directly complies with the intent as it is linear infrastructure and a water pipeline. One purpose of the pipeline is to support the GSDA and industrial development within Gladstone by providing water security for the region.</p>
<p>Development in the precinct is to:</p> <ul style="list-style-type: none"> i) Minimise construction and operation footprints and follow a logical sequence of development to maximise opportunity for future linear infrastructure ii) Avoid adverse impacts of existing infrastructure iii) Provide and maintain access to the corridor for the construction, operation and maintenance of existing and future linear infrastructure iv) Coexist with other linear infrastructure internal and external to the GSDA v) Recognises and manages adverse impacts to sensitive land uses adjacent to the GSDA. 	<p>Complies</p> <ul style="list-style-type: none"> i) The FGP GSDA alignment has been designed to minimise the footprint and consider existing linear infrastructure, and where possible follow their alignments. This will also assist in minimising any impacts on future linear infrastructure. ii) The underground water pipeline has been designed in consideration of the existing infrastructure and any known future infrastructure. GAWB and its construction contractor (MBJV) are working with utility providers to ensure their requirements are met and impacts minimised during construction, and where required have agreements in place or in the latter stages of negotiation with third party asset managers. iii) Construction access tracks are identified in the Traffic Management Plan, with existing access tracks to be used preferentially. Existing infrastructure will not be compromised. MBJV will be responsible for ensuring safe access during construction. During operation, where existing access is not available access will be via the FGP GSDA alignment where possible. iv) Design has considered other infrastructure, the FGP GSDA alignment can coexist safely with other infrastructure. v) The FGP GSDA alignment is a buried pipeline and as such, impacts to adjacent sensitive land uses are not anticipated. Above ground

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Strategic Vision	Proposal Response
	infrastructure (including valves) locations will consider land use where practical.
Defined uses that support the preferred development intent include a linear infrastructure facility or utility installation.	Complies The underground water pipeline is considered a linear infrastructure facility and utility installation under the GSDA.

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Table C.5: SDA Wide Assessment Criteria Assessment (minor updates to Table 6.5 of the GHD 2022 Planning Report responses relevant to this change application, indicated in blue text)

Strategic Vision	Proposal Response
2.5.1 Infrastructure and services	
1. a) Development is designed to maximise efficiency and minimise the cost for infrastructure and services	Complies During the design of the pipeline, including liaison with various stakeholders, MJBV and GAWB have ensured the construction maximises efficiency and minimise costs for supporting infrastructure and services.
1. b) Development plans for and manages its impacts on existing and planned infrastructure and services	Complies During the design of the pipeline, the existing infrastructure in the area was considered to avoid conflicts with current and future known service networks, where possible. The alignment of the pipeline parallel to existing linear infrastructure (where feasible) will reduce the potential for impacts. Impacts upon existing infrastructure and utilities will occur as a result of the FGP GSDA alignment. The impacts are being managed through consultation with infrastructure owners (including formal agreements as required), implementation of the approved GAWB CEMP (July 2023) and other relevant procedures.
1. c) Development is adequately serviced by the infrastructure and services necessary to meet the demand generated by the development	Complies Limited infrastructure and services are required for the Project. The development will ensure existing infrastructure and services are not impacted within the GSDA.
1. d) Development integrates with existing and planned infrastructure and services where possible.	Complies During the design of the pipeline, the existing infrastructure in the area was considered to maximise integration where possible. This included identifying a location for the connection to the existing GAWB raw water network (Mt Miller) which is within the GSDA.
<i>Note: infrastructure and services include telecommunications, transport (including corridors and operations), water, wastewater, recycled water and energy networks, and State or local government infrastructure and services.</i>	

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Strategic Vision	Proposal Response
2.5.2 Transport	
1. Increased traffic arising from the development is either able to be accommodated within existing road networks, or works are undertaken to minimise adverse impacts on existing and future uses and road networks.	<p>Complies</p> <p>It is anticipated that temporary increases in traffic during construction and maintenance periods will occur on roads within the GSDA.</p> <p>No alterations to the road networks within the GSDA are proposed as a result of the FGP GSDA alignment. A Traffic Management Plan (TMP) has been developed to minimise adverse traffic related impacts during construction, with a separate TMP to be developed for the operational phase.</p>
2. Road networks in the GSDA are designed to accommodate the proposed vehicle type and predicted traffic volumes associated with the development and the precinct/s.	<p>Not applicable</p> <p>No permanent alterations to the road networks within the GSDA are proposed as a result of the FGP GSDA alignment.</p>
3. Development is designed to facilitate safe and efficient vehicular ingress and egress and does not unduly impact on the safe and efficient operation of transport infrastructure, including corridors.	<p>Complies</p> <p>The FGP GSDA alignment intersects Gladstone-Mt Larcom Road, which is a State-controlled road and a number of GRC managed road reserves. GAWB proposes lower impact construction methods (trenchless crossings) to cross major road reserves to avoid permanent impacts to the structure of the roads and impacts with other road users.</p> <p>The project has obtained relevant corridor permits from TMR, Aurizon and GRC to enable works to occur safely and efficiently in the road and rail reserves.</p> <p>During construction appropriate Traffic Management Plans / Guidance Schemes will be enacted to manage construction traffic.</p>
4. Adequate onsite parking for the number and nature of vehicles expected is provided.	<p>Complies</p> <p>It is anticipated that temporary increases in traffic during construction and maintenance periods will occur. All equipment will be parked within the GSDA ROW.</p>
2.5.3 Environmental nuisance	
1. Development is located, designed, and operated to avoid, minimise or manage:	<p>Complies</p>

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Strategic Vision	Proposal Response
<ul style="list-style-type: none"> a. adverse impacts from air, noise and other emissions that will affect the environment and/or health and safety, wellbeing, and amenity of communities and individuals b. conflicts with sensitive uses arising from (but not limited to) spray drift, odour, noise, light spill, dust, smoke, or ash emissions. 	<p>The FGP GSDA alignment potential impacts during construction associated with assessment criteria 2.5.3 include:</p> <ul style="list-style-type: none"> — Air impacts as a result of dust or vehicle/machinery emissions. — Noise and vibration impacts as a result of earthworks (including trenchless methods). <p>The FGP GSDA alignment is located in a combination of rural and industrial areas with limited environmental or community sensitive receptors (such as residences). The implementation of the approved GAWB CEMP (July 2023) will assist in mitigating impacts to sensitive receptors. Stakeholder and community consultation is ongoing to provide information on construction stages and assist in managing expectations.</p> <p>Operational impacts will be restricted to maintenance activities only and managed in accordance with an OEMP; the underground water pipeline will not result in any emissions.</p>
<p>2. The location, design and operation of development achieves the relevant acoustic objectives of the Environmental Protection (Noise) Policy 2019 and achieves the relevant air quality objectives of the Environmental Protection (Air) Policy 2019.</p>	<p>Complies</p> <p>The construction of the Project will be undertaken in accordance with the approved GAWB CEMP (July 2023), which includes compliance with the Environmental Protection (Noise) Policy and Environmental Protection (Air) Policy.</p>
<p>3. Development:</p> <ul style="list-style-type: none"> a. avoids adverse impacts on the cumulative air quality of the Gladstone airshed or b. where impacts cannot be avoided, conducts air shed modelling in accordance with current best practice to demonstrate compliance with air quality standards. 	<p>Not applicable</p> <p>Air emissions contributing to the Gladstone airshed are not anticipated.</p>
2.5.4 Contaminated Land	

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Strategic Vision	Proposal Response
1. Development on land likely to be contaminated or recorded on the Environmental Management Register or Contaminated Land Register does not adversely impact on human health or the environment by exposure, management, or movement of contaminants.	<p>Complies</p> <p>The FGP GSDA alignment traverses seven properties that have been identified as being on the EMR (refer to Section Error! Reference source not found. and Appendix D of the GHD 2022 Planning Report). Earthworks on these properties has the potential to result in impacts as a result of contaminated land disturbance. MBJV is implementing the approved GAWB CEMP (July 2023) to manage risk. A suitably qualified consultant (PSK Environmental Pty Ltd) has been engaged to provide advice on contaminated land risks and management during construction.</p> <p>If spoil is to be removed from any properties on the EMR a Soil Disposal Permit will be sought from DESI.</p>
2. Where required, develop a strategy to manage any existing contamination and the potential for additional contamination, so that human health and the environment are not adversely affected.	<p>Complies</p> <p>The approved GAWB CEMP (July 2023) includes a strategy for the management of EMR listed properties, incidental finds of potentially contaminated land, and measures should contamination occur as a result of construction. Site-specific strategies will be developed in consultation with the suitably qualified consultant (PSK Environmental Pty Ltd), as required.</p> <p>Operational impacts will be restricted to maintenance activities only and managed in accordance with an OEMP. Impacts are anticipated to be minor and incident related only.</p>
2.5.5 Natural hazards	
1. Development, in accordance with current best practice: <ul style="list-style-type: none"> a. identifies relevant natural hazards that may impact upon the project b. appropriately manages risk associated with identified hazards c. avoids increasing the severity of natural hazards d. avoids adverse impacts from natural hazards to protect people and property and enhances the community's resilience to natural hazards, or where adverse 	<p>Complies</p> <p>Development will be in accordance with best practice in consideration of natural hazards. Additionally, given the pipeline will be buried, it is considered that it will not increase the severity of a natural hazards in the area. The above ground infrastructure for the Project includes valves. Valve designs can consider natural hazards where relevant and will not increase the severity of natural hazards in the area.</p>

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Strategic Vision	Proposal Response
<p>impacts cannot be avoided, impacts are minimised, mitigated, or offset</p> <p>e. avoids directly or indirectly increasing the severity of coastal erosion either on or off the site.</p>	
<p>2. Development, in accordance with current best practice, achieves an appropriate level of flood immunity and:</p> <p>a. does not adversely affect existing flow rates, flood heights, or cause or contribute to other flooding impacts on upstream, downstream, and adjacent properties, or the State transport network (including potential impacts from changes to stormwater flows and local flooding).</p>	<p>Complies</p> <p>The proposed development consists of a buried pipeline. It is proposed that existing surface levels will be retained and therefore no impact upon flood conditions or flows are considered applicable.</p> <p>The above ground infrastructure for the Project includes valves. Valve designs can consider natural hazards where relevant.</p>
2.5.6 Climate change	
<p>1. Development:</p> <p>a. avoids or, if avoidance cannot be achieved, minimises net increases in the emission of greenhouse gases</p> <p>b. can adapt to current and future impacts of a changing climate.</p> <p><i>Note: projected climate change conditions include potential impacts from sea level rises, increased maximum cyclone intensity, increased rainfall intensity or increased likelihood and intensity of bushfires.</i></p>	<p>Complies</p> <p>It is expected the FGP GSDA alignment will have minimal GHG emissions during the construction and operation phases.</p> <p>The project is being assessed against the Infrastructure Sustainability Council (ISC) Version 1.2 Design and As Built (IS v1.2) rating scheme to achieve a rating level of 'Excellent'. This assessment includes the development of a model of greenhouse gas emissions for the project lifecycle.</p> <p>In addition, all infrastructure associated with the FGP GSDA alignment will be designed to not be affected by the risk of climate change, i.e. risks relating to sea level rise, increased bushfire and increased extreme weather events.</p>
2.5.7 Acid sulfate soils	

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Strategic Vision	Proposal Response
<p>1. Development, in accordance with current best practice, is to:</p> <ol style="list-style-type: none"> Avoid the disturbance of ASS or Ensure that the disturbance of ASS avoids or minimises the mobilisation and release of contaminants. 	<p>Complies</p> <p>The Project has sought to minimise disturbance to ASS through restricting earthworks (where feasible).</p> <p>A suitably qualified consultant (PSK Environmental Pty Ltd) has been engaged to provide advice on ASS risks and management during construction. The PSK Interim ASS management plan (7 July 2023) is included as Appendix B of the approved GAWB CEMP (July 2023) which includes mitigation and management measures.</p> <p>PSK also prepared an ASS Sampling and Analysis Plan (10 May 2023, Rev 1). This identified that the GSDA Section of the pipeline is not below 5 mAHD (generally between 20 and 50 mAHD, but up to 100 mAHD), therefore, does not trigger further assessment under the State Planning Policy – state interest guidance materials emissions and hazardous activities.</p>
2.5.8 Water Quality	
<p>1. Consistent with the Environmental Protection (Water and Wetland Biodiversity) Policy 2019, development avoids or, if avoidance cannot be achieved, minimises, mitigates or offsets adverse impacts on the environmental values and water quality objectives of receiving waters and wetlands arising from:</p> <ol style="list-style-type: none"> Altered stormwater quality and/or flow Wastewater (other than contaminated stormwater and sewage) The creation or expansion of regulated structures or non-tidal artificial waterways The release and mobilisation of nutrients and sediments. 	<p>Complies</p> <p>Potential impacts to water quality during construction and commissioning will be managed via the approved GAWB CEMP (July 2023), including Appendix A ESCP (prepared by TOPO), to protect local waterways and meet water quality objectives.</p> <p>CPESC consultants (TOPO) have been engaged to provide advice on site-specific ESC risks and management during construction, as required.</p> <p>As identified in the GHD 2022 Planning Report, no wetlands are proposed to be impacted. Further, no regulated structures on waterways (or artificial waterways) are proposed within the GSDA.</p> <p>During operation it is likely that water from the pipeline may be locally discharged, for example during cleaning or maintenance works requiring an empty pipe. Where discharge is required, it will occur if the water is not contaminated and meets discharge water quality guidelines. If there is potential for water to be contaminated it will be removed from site and discharged to a licenced treatment plant. Measures for discharge management will be included in the OEMP.</p>

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Strategic Vision	Proposal Response
2. Development encourages a precinct-wide stormwater management approach that achieves an improved water quality outcome.	<p>Complies</p> <p>The FGD GSDA alignment is not proposed to impact stormwater quantity or quality. Potential impacts during the construction phase will be managed by the approved GAWB CEMP (July 2023).</p> <p>Appropriate rehabilitation and maintenance procedures will minimise ongoing risks of erosion along the ROW during operation.</p>
3. Development protects the ecological and hydraulic function of waterway corridors in and adjacent to the GSDA, with particular regard to the Great Barrier Reef World Heritage Area, fish passage and marine plants.	<p>Complies</p> <p>Design of the FGP GSDA alignment has considered locations of waterways. For major waterways (<i>i.e.</i>, Larcom Creek within the GSDA), trenchless installation methods are being implemented to minimise impact. For minor waterways, the design has allowed for trenched installation of the pipeline, with natural waterway profiles being re-established and rehabilitation occurring.</p> <p>Temporary waterway barrier works will be undertaken in accordance with the Accepted Development Requirements. At this stage no permanent waterway barrier works are required or proposed. Should design require scour protection to be placed in waterways the works will progress following approval by DAF.</p> <p>No marine plants are proposed to be impacted by the FGP GSDA alignment.</p>
2.5.9 Risk Management – Activities	
<p>1. Development is located, designed, and operated to:</p> <ul style="list-style-type: none"> a. minimise the health and safety risks to communities and individuals b. avoid any potential adverse impacts from emissions and hazardous activities, or where adverse impacts cannot be avoided, impacts are minimised or mitigated c. protect high pressure gas pipelines from encroachment that would compromise the ability of the pipelines to function safely and effectively. 	<p>Complies</p> <p>The FGP GSDA alignment has been located and designed to minimise health and safety risks to communities. The water pipeline itself does not present a major health and safety risk, nor will it result in impacts from emissions or hazardous activities.</p> <p>The FGP GSDA alignment crosses a number of gas pipelines. The design process has considered these pipeline localities and will meet utility provider requirements, such as depth of cover and access. GAWB and MJBV have consulted with the gas pipeline managers to ensure their requirements</p>

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	are met through construction and operation, and there are formal agreements for each either already in place or these are in the latter stages of negotiation.
2. Activities involving the use, storage, and disposal of hazardous materials and prescribed hazardous chemicals, dangerous goods, and flammable or combustible substances are located and managed to minimise the health and safety risks to communities and individuals.	<p>Complies</p> <p>During construction of the FGP GSDA alignment, hazardous materials or chemicals may be required (such as fuels and oils). These will be managed in accordance with the approved GAWB CEMP (July 2023).</p> <p>During operation, for FGP GSDA alignment, there is no permanent storage of hazardous materials or chemicals on site. Occasionally hazardous materials or chemicals may be required during maintenance activities. Such use will be managed in accordance with the OEMP.</p>
3. Development provides adequate protection from the harmful effects of noxious and hazardous materials and chemicals manufactured or stored in bulk during natural hazard events.	<p>Not applicable</p> <p>There will be no noxious or hazardous materials and chemicals stored in bulk.</p>
2.5.10 Cultural Heritage and Community	
<p>1. Indigenous and non-Indigenous cultural heritage values, and community values of the premises on which the development is undertaken, and immediate surrounds, are identified and managed, consistent with current best practice.</p> <p><i>Note: Duty of Care under Section 23 of the Aboriginal Cultural Heritage Act 2003 should be considered a minimum requirement of all development</i></p>	<p>Complies</p> <p>Indigenous cultural heritage will be managed in accordance with the Approved CHMP with the traditional owners of the GSDA RoW i.e., First Nations Bailai, Gurang, Gooreng Gooreng, Taribelang (FNBGGGTB) People.</p> <p>No non-indigenous cultural heritage sites are proposed to be impacted by the FGP GSDA alignment. An incidental find procedure will be implemented.</p>
2. Development is located, designed and operated to avoid adverse impacts on cultural heritage and community values, or where adverse impacts cannot be avoided, impacts are minimised, mitigated, or offset.	<p>Complies</p> <p>Where practical, direct impacts on Aboriginal cultural heritage will be avoided. Where this is not possible Aboriginal cultural heritage will be managed in accordance with the Approved CHMP with the traditional owners of the GSDA RoW i.e., First Nations Bailai, Gurang, Gooreng Gooreng, Taribelang (FNBGGGTB) People.</p> <p>No non-indigenous cultural heritage sites are proposed to be impacted by the FGP GSDA</p>

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	alignment. An incidental find procedure will be implemented.
<p>3. Development recognises and protects the cultural heritage values associated with:</p> <ul style="list-style-type: none"> a. the Euroa Homestead on Lot 200 on SP239672 b. the Mount Larcombe Station Original Homestead Site on Lot 73 on SP272417 and Lot 20 on SP272417 c. the Targinnie Cemetery on Lot 95 on DS287. 	<p>Complies</p> <p>Direct impacts to the listed places are not expected due to:</p> <ul style="list-style-type: none"> — At its closest point the western boundary of the Euroa Homestead allotment is approximately 1.14 km northeast from the FGP GSDA alignment. — At its closest point the eastern boundary of the Mount Larcombe Station Original Homestead (as mapped by Gladstone Regional Council Planning Scheme mapping) is approximately 1 km south west of the FGP GSDA alignment. — At its closest point Targinnie Cemetery is 6.2 km north of the FGP GSDA alignment.
<p>4. Where development requires a buffer to mitigate the adverse amenity impacts of the development, including, but not limited to, visual and acoustic impacts, that buffer is accommodated within the development site</p>	<p>Not applicable</p> <p>The FGP GSDA alignment will be buried, therefore buffers are not proposed as visual and acoustic impacts are not expected.</p> <p>The above ground infrastructure for the Project includes valves. Valve designs can consider amenity where relevant.</p>
2.5.11 Environment	
<p>1. Environmental values of the premises on which the development is undertaken, and immediate surrounds are identified and managed, consistent with current best practice.</p>	<p>Complies</p> <p>The FGP GSDA alignment has been sited to reduce potential impact on the environment where practical. A review of environmental values is presented in Section Error! Reference source not found. with impacts and mitigation measures discussed in Section Error! Reference source not found. of the GHD 2022 Planning Report (noting updated responses within this table).</p> <p>Environmental impacts will be managed during construction through the approved GAWB CEMP (July 2023) and during operational through an OEMP. The CEMP and OEMP will be prepared in consideration of best practices at the time.</p>
<p>2. Development is located, designed, and operated to:</p>	<p>Complies</p> <p>Refer to response for item 1 above. In addition:</p> <ul style="list-style-type: none"> — Impacts to local matters of environmental significance, MSES and MNES will be

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<ul style="list-style-type: none"> a. Avoid adverse impacts on environmental values including matters of local, State, and national environmental significance or where adverse impacts cannot be avoided, impacts are minimised, mitigated, or offset b. Maintain ecological connectivity and processes c. Maintain the outstanding universal value (OUV) of the Great Barrier Reef World Heritage Area including the local attributes of the OUV identified in the Master plan for the Priority Port of Gladstone and Port overlay d. Retain, to the greatest extent possible, tidal fish habitat and marine plants. 	<p>minimised where practical and/or managed. Management measures include rehabilitation of areas not part of the operational ROW. GAWB has secured environmental offsets for significant residual impacts (noting none are relevant to the GSDA).</p> <ul style="list-style-type: none"> — The impact on ecological connectivity has been minimised where possible by maximising use of previously disturbed areas and other linear infrastructure. Due to its linear nature, some local connectivity impact will occur. As the pipeline is buried, impacts are anticipated to be minor with most fauna able to cross the ROW. The exception would be the greater glider. — The most southern extent of the FGP GSDA alignment is located approximately 2 km from the boundary of the GBRWHA. Direct impacts to the GBRWHA are not proposed. The risk of indirect impacts during construction, for example as a result of erosion and sediment control, are to be mitigated in accordance with the approved GAWB CEMP (July 2023), including Appendix A ESCP (prepared by TOPO). The OUV of the GBRWHA is not proposed to be impacted. <p>No tidal habitat or marine plants will be impacted by the FGP GSDA alignment.</p>
<p>3. Any residual significant adverse impacts are offset in accordance with the relevant Commonwealth or Queensland environmental offset framework</p>	<p>Complies</p> <p>GAWB has secured environmental offsets for significant residual impacts related to marine plants as identified through subsequent approval processes. Otherwise, no significant residual impact for which an offset is required was identified (noting no marine plants are located within the GSDA).</p>
<p>4. Lighting associated with the construction and operation of development is designed to limit the impacts on aquatic wildlife, including turtles and migratory species.</p>	<p>Complies</p> <p>Temporary lighting of worksites will be required during construction; however, construction will generally be limited to daylight hours (6:30am to 6:30pm).</p> <p>Where work outside routine hours is required (i.e., for trenchless crossings the subject to this change application) it will be conducted in accordance with the approved GAWB CEMP (July 2023),</p>

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	<p>including use of directional lighting and shields to minimise light spill outside of the immediate work areas having consideration for health and safety requirements (noting the works will ensure compliance with Condition 11 of the SDA approval),</p> <p>During operation no permanent lighting is proposed.</p>
5. Where development requires a buffer to mitigate the impacts of the development, that buffer must be accommodated within the development site.	<p>Not applicable</p> <p>Due to the pipeline being buried, it does not trigger the need for a buffer to mitigate the impacts of the development on surrounding areas.</p>
<p>6. Development avoids native vegetation clearing, or where avoidance is not reasonably possible, minimises clearing to:</p> <ul style="list-style-type: none"> a. conserve vegetation b. avoid land degradation c. avoid fragmentation and conserve connectivity. 	<p>Complies</p> <p>Given the length of the pipeline and topographic constraints, it is not possible to avoid all areas of native vegetation. Where possible, the use of existing disturbed areas has been maximised to minimise impacts to vegetation communities. Within the ROW rehabilitation will occur to minimise risk of ongoing land degradation.</p> <p>Any fragmentation will be minor and it is considered that some regrowth may occur within the ROW. Fragmentation has been minimised where possible by aligning the pipeline with other linear infrastructure or along property boundaries.</p>
2.5.12 Engineering and Design Standards	
1. Development is to be designed and constructed in accordance with the relevant engineering and design standards (and any subsequent revisions to the relevant standards) stated in Table 7. Alternative and innovative solutions that demonstrate compliance with the relevant standards are encouraged.	<p>Complies</p> <p>Where appropriate relevant engineering and design standards will be met during Project design and construction.</p> <p>The design and construction will be in accordance with water industry standards and codes of practice with a view of generally achieving a design lifespan of 75 years, taking into account the conditions along the FGP GSDA alignment and the nature of the materials and processes involved.</p>
2.5.13 Other Government Matters	
1. Development is to demonstrate consistency with any other relevant legislative requirements that may be necessary for the development to proceed and to the extent practicable, be consistent with regional plans, the State Planning Policy, the Port Overlay for	<p>Complies</p> <p>The FGP GSDA alignment development will be undertaken in consideration of other legislative requirements as detailed in the following sections of the GHD 2022 Planning Report:</p>

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the priority Port of Gladstone, and the State Development Assessment Provisions, where the State interests articulated by these instruments are likely to be affected by the development.	<ul style="list-style-type: none"> – Section Error! Reference source not found. presents a summary of key permits and approval that are required. – Section Error! Reference source not found. provides a review of the SPP. – Section Error! Reference source not found. provides a review of the Central Queensland Region Plan. – Section Error! Reference source not found. provides a review of the Port Overlay for the priority Port of Gladstone. – Section Error! Reference source not found. provides an assessment against the relevant State Development Assessment Provisions (SDAP).
2. Development recognises and protects the long-term availability of the extractive resource and access related to the Targinnie Key Resource Area (Number 119).	<p>Complies</p> <p>The FGP GSDA alignment intersects the Transport Route and Separation Area for the KRA (refer to Sections Error! Reference source not found. and Error! Reference source not found. of the GHD Planning Report):</p> <ul style="list-style-type: none"> – The crossing of the Transport Route is proposed by trenchless methods, reducing impacts to the roads use. – The water pipeline is not considered a sensitive use and as such can occur in the Separation Area.
3. Development does not compromise existing or future port facilities and operation on Strategic Port Land.	<p>Complies</p> <p>Strategic Port Land is not impacted by the FGP GSDA alignment.</p>
2.6.14 Energy and Water Efficiency	

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<p>1. Building, site design and layout maximises energy efficiency having regard to:</p> <ol style="list-style-type: none"> Building orientation and passive solar design Maximising opportunities for cross ventilation Appropriate shade treatments and Landscaping treatments to the western side of the building. 	<p>Not applicable</p> <p>The development within the GSDA is an underground water pipeline. As such energy efficiency is not required to be considered.</p>
<p>2. Water efficiency is optimised through the use of alternative water supply sources, including:</p> <ol style="list-style-type: none"> Rainwater harvesting systems Recycled water sources. 	<p>Generally complies</p> <p>Water will be required during construction. MBJV has identified suitable sources of water in accordance with legislative and stakeholder requirements.</p> <p>During operation and maintenance:</p> <ul style="list-style-type: none"> The pipeline will improve reliability of water supply to the region. Significant water use along the pipeline is not required during operation. For maintenance or cleaning activities appropriate water sources will be used. This may include water already within the infrastructure.
<p>3. Where practicable, development should be consistent with the Queensland government's renewable energy policies.</p>	<p>Complies</p> <p>Where appropriate the Project outcomes will be consistent with the Queensland government's renewable energy policies.</p>
2.5.15 Visual Impacts	
<p>1. Visual impacts of buildings, retaining structures, or other development are minimised through building design, landscaping, and use of appropriate materials when viewed from a publicly accessible viewpoint such as major roads and the Mount Larcom landform.</p>	<p>Complies</p> <p>The FGP GSDA alignment is in an existing industrial environment suggesting that this infrastructure will be of low visual sensitivity.</p> <p>The FGP GSDA alignment is underground and the only visual impacts upon rehabilitation will include the valves and a maintained ROW. It will not cause any significant visual impacts to viewpoints.</p> <p>The EIS included an assessment of visual impacts (Arup, 2008). Chapter 17 of the EIS was provided in Error! Reference source not found. of the GHD Planning Report. The visual amenity values outlined within the EIS are similar to the current values. Therefore, the assessment presented</p>

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	within the EIS is still relevant. Additional information is provided in Error! Reference source not found. of the GHD Planning Report .
<p>2. Development maintains and enhances significant vegetation where possible and provides landscaping that:</p> <ul style="list-style-type: none"> a. minimises the visual impacts of the development b. incorporates at least 50 per cent local species c. is low maintenance. 	<p>Complies</p> <p>Impacts to significant vegetation have been minimised through site selection and design measures. Rehabilitation of the ROW is primarily proposed to be via local grass species.</p>