

Our Ref: 23050 Ecological Appraisal – Concept Sewer Alignment 30-10-2023
Via: email

Date: 30 October 2023

Attn: Jamie Graham
Monteath & Powys
Tonella Commercial Centre
125 Bull Street
Newcastle West, NSW 2302

Dear Jamie

RE: ECOLOGICAL APPRAISAL – CONCEPT SEWER ALIGNMENT, 42 FULLERTON COVE ROAD

MJD Environmental is writing to you in reference to an ecological appraisal of a concept sewer main alignment that will be associated with the development at 42 Fullerton Cove Road, Fullerton Cove NSW.

Concept Proposal

The concept sewer main is to be co-located with a sewer main to be constructed by the adjacent development situated on the northern side of Fullerton Cove Road, which has been previously assessed and approved as a part of that DA. This ecological appraisal reflects a site assessment conducted by MJD Environmental to determine the likelihood of the proposal having impacts outside the scope of the approved sewer main alignment.

The concept sewer main alignment follows the south road verge of Fullerton Cove Road, approximately 200 m northeast of the roundabout at The Cove Drive and will then underbore beneath Fullerton Cove Rd approximately 20 m southeast of the roundabout. The sewer then follows an existing managed unsealed access track for approximately 300 m, before underboring beneath a patch of native vegetation for approximately 200 m, with the final trench emerging in a cleared area before connecting to a wastewater pumping station (WWPS) located within The Cove Village. Refer to **Attachment 1**.

Site Inspection

A site inspection examining vegetation within a 10 m study area of the concept sewer main was conducted by an ecologist on the 27th of September 2023. At the time of the assessment, the works associated with adjacent development were underway, with the path of the co-located sewer main having been survey and marked. Excavation works had yet to be undertaken, and therefore, the vegetation along the proposed sewer main was intact. As such, along the northern section of the proposal, prior to the first underbore, the vegetation was predominately characterised by cleared or managed road verges and easements, consisting of mown exotic turf or fringing exotic vegetation. The access track south of the roundabout is similarly characterised, with significant gravelled areas that had little to no vegetation. Along this access track is overhanging native canopy and sub-canopy species, such as *Casuarina*, *Eucalyptus* and *Acacia*, however, this canopy vegetation is not expected to be impacted by the proposal. The proposed sewer main intersects a patch of disturbed Swamp Sclerophyll Forest commensurate with a Threatened Ecological Community (TEC), with the second underbore being utilised to avoid impacts to this vegetation.

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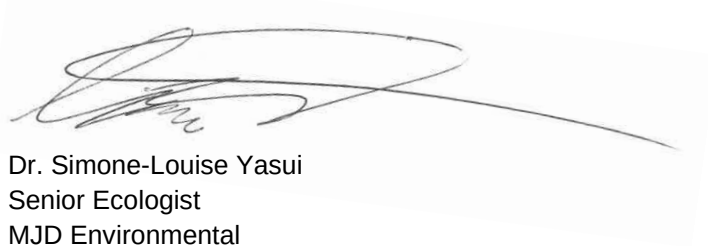
The final section of the proposal emerges in a cleared area that is characterised by a dense ground layer of exotic grasses. At the southernmost point of the proposal, where the sewer connects to the WWPS, is an area of native vegetation. This vegetation is predominately characterised by dense stand of *Leptospermum* regrowth, which falls within the current 10 m study area and may, subject to future detailed engineering design be impacted by the proposal. Refer to **Attachment 2**.

Summary

Generally, the study area associated with the concept sewer main is characterised by disturbed habitat containing exotic vegetation. In areas of extant native vegetation, underbores will be utilised to avoid impact to or removal of native vegetation, with a particular focus on Swamp Sclerophyll Forest TEC. Future detailed engineering design to be completed for pipeline installation must carefully consider the location of launch and receive pits to minimise disturbance in and around areas of native vegetation observed during our inspection. It is reasonable to conclude from our initial appraisal and consideration of ecological constraints observed that impacts to native vegetation can largely be avoided save the southernmost area of alignment where some *Leptospermum* regrowth may be disturbed.

We trust this is sufficient for your purposes, however, should you require any further information or clarification, please do not hesitate to contact Matt Doherty or the writer.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Dr. Simone-Louise Yasui', is written over a light blue rectangular background.

Dr. Simone-Louise Yasui
Senior Ecologist
MJD Environmental

Encl: Attachment 1: Concept Sewer Main Alignment Proposal (Northrop NL161067 - CSK01.pdf)
Attachment 2: Ecological Inspection Observations

VERIFIER: L MCRAE
JOB MANAGER: L MCRAE
DESIGNED: A TURNBULL
DRAWN: J STAUB



LEGEND

- W EXISTING WATER MAIN
- S EXISTING SEWER GRAVITY MAIN
- RM EXISTING 250mm SEWER RISING MAIN
- RM PROPOSED INGENIA SEWER RISING MAIN
- RM PROPOSED SEWER RISING MAIN

NOTES

ALL SERVICE LOCATIONS AND BOUNDARIES INDICATIVE ONLY



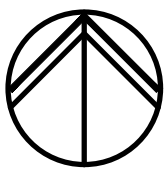
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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
A	PRELIMINARY ISSUE	AT		LM	17.08.23	
B	PRELIMINARY ISSUE	AT		LM	30.08.23	

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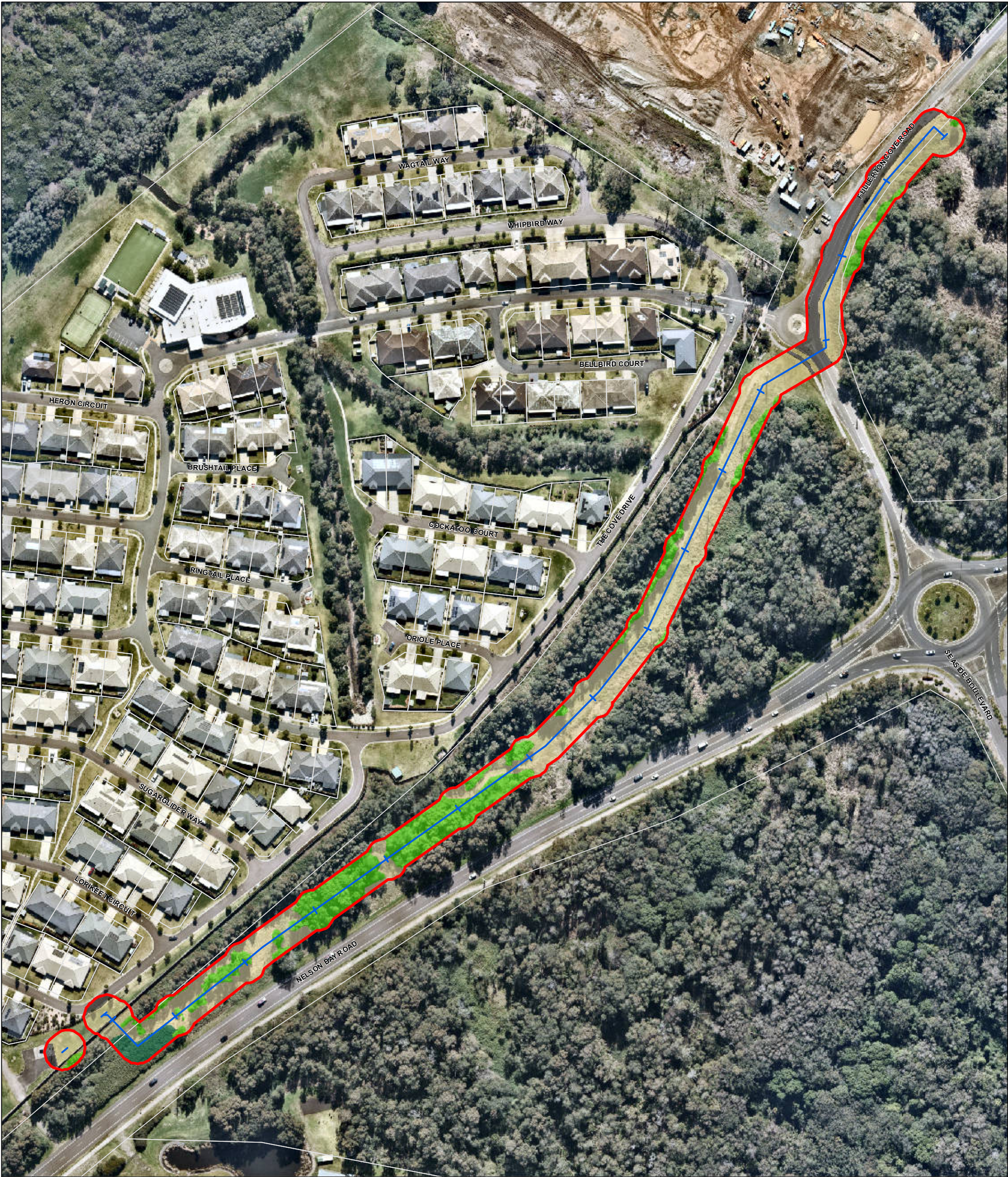
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PROJECT
**42 FULLERTON COVE ROAD,
FULLERTON COVE, NSW 2318**

DRAWING TITLE
**PROPOSED PRIVATE SEWER RISING
MAIN ALIGNMENT**

JOB NUMBER
NL161067
DRAWING NUMBER
CSK01.01
REVISION
B
DRAWING SHEET SIZE = A1



42 FULLERTON COVE ROAD
ATTACHMENT 2: ECOLOGICAL INSPECTION OBSERVATIONS

Legend

Study Area (10m Buffer)

Concept Sewer Alignment

Cadastral Boundaries

Vegetation

Swamp Sclerophyll Forest (TEC)

Leptospermum Regrowth

Exotic Vegetation

Not Vegetated

Aerial: NearMap (2023) | Data: MJD Environmental,
Spatial Services (2023) | Datum/Projection: GDA
2020 MGA Zone 56 | Date: 30/10/2023 | Version 1 |
Z:\23050 - 42 Fullerton Cove
Road\23050_42FullertonCoveRd_20230925.mxd |
This plan should not be relied upon for critical design
dimensions.