

Transmission Gully Project

Monthly Report to WGP

July 2018

TG-CPBH-RPT-ALL-GE-9175 Rev 00



CPB HEB
Joint Venture





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Executive Summary

Over 4.5 million man hours completed on the Project to date. There were no recordable incidents during the month of July. Weather in the period was as planned. s 9(2)(b)(ii)

[Redacted text]

Key Achievements:

- s 9(2)(b)(ii)
- Sub-base for southern Coast Rd tie-in 90% complete.
- Horokiri Stream Section 5 livened.
- Te Puka Section 5: Stage 2 rip rap 50% complete.
- SH58 final undercut completed.
- 20550 Utilities culvert is ready for Wellington Water to commence the utilities switch.
- CLR2 Widening Works at Bridge 27 subsolling complete.
- Sub soils north of Bridge 26 complete.
- Bridge 25 – Pier 3 Headstock poured.
- RW4 – Capping beam and facing panel footing construction completed.
- MCK1850: Completed construction of both the inlet and the outlet headwalls.
- Bridge 6: Construction of the bridge is complete.
- Bridge 11: Second stage wall concrete pour has been completed.
- Bridge 14: REL walls 100% complete. Both abutments have been constructed. Preparing for placement of the Super T girders.
- Bridge 20 Pier 1: Column reinforcing starter cage and cradle have been successfully installed and we have now progressed with fixing the reinforcing for the stage 9 foundation concrete pour.
- Bridge 20 Pier 2: Second column pour completed.

s 9(2)(b)(ii)



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Justin Redelinghuys
Project Director, D&C – Transmission Gully
CPB HEB Joint Venture

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Safety and Health

Overview

- 86 project inductions conducted during July
- s 9(2)(b)(ii)
- 12 Constructsafe assessments undertaken in July.
- Project Induction Reviewed and currently being updated
- Preparation for 'TG Safety Blitz' conducted on the first day of August.

Project Hours

Project Hours @ July 2018				
Area	Life Of Project	Last Month	This Month	12MR*
TG Project Total**	4,526,276	129,905	139,053	1,967,602

** Excludes Early Works Hours

*12MR = 12 Month Rolling Total

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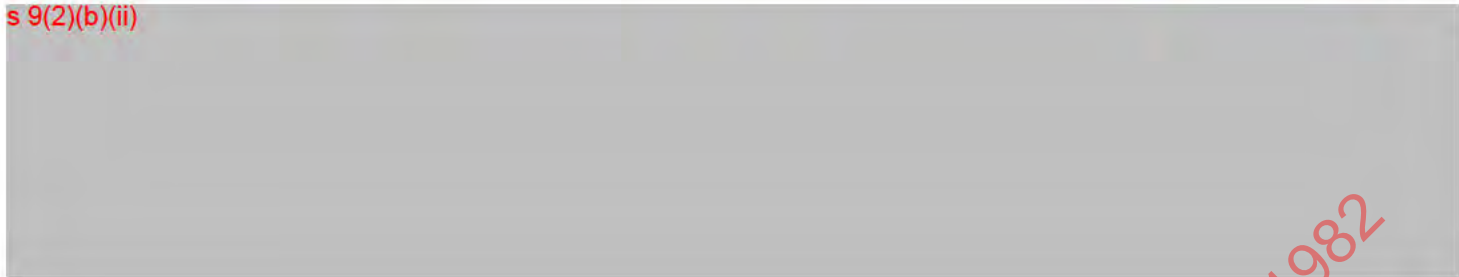
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Construction

Overview

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In Zone 1, southern and northern tie in works continue on the Coast Road. At Wainui, stream works have progressed but production has been constrained at Te Puka due to delays in completing final earthworks. Acceleration measures are being applied at Te Puka to complete the remaining earthworks and the completion of Section 5 ahead of the summer season. The Horokiri catchment area which has been closed following the ESC failure on 9th July has now been re-opened and Horokiri Section 4 works have recommenced with good progress made.

In Zone 2, good progress continues to be made at Cut 35 (Bridge 19). This is an area of focus to get the fill ready for the water main permanent switch. Additional resources are being sought to ensure the forthcoming Te Marua and Bridge 19 Wellington Water relocations will be completed before the outage 'blackout' period begins. Bridge 13 beams have been landed with Bridge 14 Beams expected to be landed mid-August. Bridge 16 MSE wall works are expected to commence early August.

In Zone 3, weather related issues have slowed progress on pavement works with night works and extended shifts put in place to accelerate work in the area. The Linden Stage 2 traffic switch is still targeting the 23rd August.

At Bridge 20, the starter column cradle lift has been completed. At Pier 2 the second pour is now complete.

Zone 1

Achievements

- Sub-base for southern Coast Rd tie-in 90% complete.
- Bridge 3 north excavation stage 1 progressed to 75% complete
- Cut 5B crestal cut 25% complete to first bench
- Te Puka Section 5: Stage 2 rip rap 50% complete
- Te Puka Section 5: Remaining earthworks to stream level ongoing, target completion mid-August.
- Livened Horokiri Stream Section 5
- Slope stabilisation Cut 3.01NB to Cut 6.11NB ongoing. 1580m Soil nails and sub-horizontal drains installed during July.

Upcoming Milestones

- Lateral traffic switch at gate 2 in early August
- Coast Rd subsoil and sub-base construction to commence in August
- Start Bridge 3 stream diversion, following north block excavation
- Complete armour rock Te Puka Section 4/5 in early September

Challenges and Mitigation



s 9(2)(b)(ii)

Zone 2

Achievements

- s 9(2)(b)(ii)
- BR08 Stream Diversion undercut and profiling is now almost completed. Rip Rap installation will start in early August with target completion by end of August.
- CTR-16870 gully has been mucked out and brought up to height ready for the culvert installation.
- CTR-15815 gully muck out has commenced with completion due in August.
- SH58 final undercut completed.
- SH58 Update: Subgrade installation / compliance over winter has been tough. The western roundabout is now 75% complete.
- CCL (drainage contractor) have commenced longitudinal drainage on the western roundabout.
- 20550 Utilities culvert is ready for Wellington Water to commence the utilities switch.
- Fill 30 (1:1 fill) terracing has commenced with the 1:1 wall due to start in August.
- Fill 35.02 (BR19) has been the biggest area of progress s 9(2)(b)(ii)

Upcoming Milestones

- Completion of Major Headwall 13290 – September
- Completion of Major Headwall 14455 – September
- SH58 Foundation Subgrade completion – September
- Fill 30 (1:1) Wall Commencement – August
- Fill 35.02 (BR19) Bulk Water main Relocation – Due before November

Challenges and Mitigations

s 9(2)(b)(ii)



s 9(2)(b)(ii)

Zone 3

Achievements / Milestones

- Bridge 27 – Abutment A RSE Embankment construction and Abutment B RSE embankment undercut ongoing
- CLR2 Widening Works at Bridge 27 – Subsoiling complete, stabilisation and sub base pavement to occur early August
- Subgrade preparation works continuing on the 35 Kenepuru Drive Link Road.
- Processing of Cut 42 material for RSE / MSE Embankments – ongoing. Removal of overburden to allow free draining of cut currently being actioned.
- Bridge 26 Stage 1 – Stitch pours to concrete edge barriers complete, with Noise wall panelling ongoing. Estimated completion of these early August
- Sub soils north of Bridge 26 complete, swale drain at toe of cut shaped. Sub base paving to start early August
- ITS trenching and backfill ongoing in Cut 47. Subgrade preparation from cuts 46 to 47 ongoing but being affected by inclement weather. Handover to Pavements for subsoiling in early August
- Bridge 25 – Abutment A RSE and MSE Embankment construction ongoing. Abutment B MSE Embankment construction continuing.
- Bridge 25 – Pier 3 Headstock poured
- Road lighting installation along SH1 ongoing northbound.
- RW4 – Capping beam and facing panel footing construction completed.
- RW5 – Capping beam and facing panel footing construction ongoing – 55% complete.
- Longitudinal drainage installation works complete at Tremewan Street.

Upcoming Milestones

- Completion of works associated with stage 2 traffic switch – Late August

Challenges & Mitigation Strategies

s 9(2)(b)(ii)



Structures

Achievements

- MCK1850: Completed construction of both the inlet and the outlet headwalls.
- Bridge 6: The construction of the bridge is complete.
- Bridge 11: The second stage wall concrete pour has been completed.
- Bridge 14: Both abutments have been constructed. Preparing for placement of the Super T girders.
- Bridge 20:
 - Pier 1: Column reinforcing starter cage and cradle have been successfully installed and we have now progressed with fixing the reinforcing for the stage 9 foundation concrete pour.
 - Pier 2: Second column pour completed.
 - Superstructure: The fabrication of the launch nose is complete and is currently being shipped to New Zealand due for delivery first week of August.

Upcoming Milestones

- Bridge 11: Complete the remedial works.
- Bridge 13: Complete the first bridge deck concrete pour.
- Bridge 14: Place the Super T girders.
- Bridge 14A: Complete construction of Abutment A.
- Bridge 20:
 - Pier 1 – Complete foundation concrete pour number 9.
 - Pier 2 – Complete the third column concrete pour.
 - Take delivery of the launch nose and the temporary works for the pier head.

Challenges

s 9(2)(b)(ii)

Utilities and ITS

Achievements

- ITS integration workshops continue. Three workshops held in July.
- Chorus relocation progressing (SH58)

Milestones

- Bridge 19 permanent water relocation – September - November



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- Te Marua bulk water relocation – August - September
- Commencement of street light installation – August

Challenges and Mitigations

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Project Wide Works

Achievements

- All Keystone Block MSE walls 39% complete across the Project. Works currently in progress on Bridge 12, 25, and RW2.
- REL walls 37% complete across the Project with works currently underway on Bridges 2, 4, 14A, and 15. Bridge 14 now 100% complete.



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- Reinforced Earth Ltd have commenced fabrication of panels for Bridge 19 (73% complete).
- IFC Design for BR3, BR4, and BR14A
- FDD Design for BR2, BR6, BR8, BR13, BR14, BR15 and BR16
- ITS Duct, lighting conduits and chambers installation ongoing at Linden as part of Phase 2 traffic switch.
- Landscaping mitigation planting commenced in Te Puka, Horokiri and Pauatahanui catchments. Geosock installation remains at 20% complete across the project and ongoing stabilisation with final hydro seeding treatments on cut and fill batters.
- 177 goats to date have been terminated prior to planting commencing.
- The mitigation fencing program continued through July. The team has started work up in the Te Puka and Horokiri catchments.

Upcoming Milestones

- Bridge 16; Bridge 28; RW7; RW9 Mechanically Stabilised Earth (MSE) Walls are expected to commence in August.
- ITS Duct and Chambers Installation to areas E1, E2, C1, and SH58 interchange crossings. Approximately 3km of subgrade at level to allow these works to commence.
- Permanent Barrier and line marking installation as part of the Phase 2 traffic switch at Linden from August.
- Traffic Management:
 - Paekakariki Southbound lane shift (Gate 2).
 - At Linden there will be various night closures through August to allow for shoulder widening activities. This is preparation works for the Stage 2 Traffic Switch. Through August variable speed zones will be implemented on both the southbound and northbound lanes. These zones will be posted at 80km/hr and 70km/hr once the traffic switch is completely implemented.
 - Quality Demolition are programmed to commence demolition of the current southbound BR26 bridge structure in September following the traffic switch. This will require a road closure at Collins Ave, and a lane closure on the SH1. This is being planned to be undertaken on a 12 hour day shift (7am – 7pm) on a Saturday at this stage.

Challenges and Mitigation

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Pavements / Stage 2 Earthworks

Achievements

- Willowbank Quarry – Affected party approval from NZTA issued. Community and Iwi consultation has been completed.

Milestones

- Submission of Willowbank Quarry consent – targeting beginning of August

Challenges and Mitigation

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Communications / Stakeholder

Community Engagement

Draft Communications Plan for the Linden traffic switch is with NZTA for approval. Drafts for the McKays Crossing and SH58 traffic switches are in development. We have engaged NZTA's preferred graphic designer to produce simplified graphics of the switches for publication to ensure consistency across the regional communications for NZTA.

A community meeting will be held in August for the Linden community affected by the closure of Collins Ave for the demolition of the old section of overbridge. This will provide them with an opportunity to ask questions and give feedback on our proposal to manage pedestrians with the use of a shuttle to the nearest alternative access under the motorway.

Refreshed communications have been sent out notifying affected communities of extended Sunday and night works through F and A Zones. s 9(2)(a)

On 15 August, we will be hosting a small group of Tawa College students for a site tour as part of the IPENZ Week of Engineering initiative and will have a stand at the Expo at Shed 11 on 18th August.

Visitor Centre

The visitor centre is currently located in Dolly Varden Park beside SH1 in Mana. We are reviewing the content and imagery with a view to refreshing prior to the move to Wellington in October.

The local food truck collective is holding a monthly fair at Dolly Varden Park on the first Friday of each month for the next 3 months. We will keep the information centre open for visitors on these evenings and will consider staffing the container for the next event. We are reviewing events in Wellington City that we could possibly attend.

Communications

Construction Updates / Quarterly e-Newsletter

July Construction Update was dispatched 31 July.

The next Quarterly newsletter will be published in early September and content development for this is underway.

Upcoming Media

Construction News cover story featuring TG interchanges to be published in August.

Website

- We had 12,548 page views in the month of July
- 6315 people found the website through a Google search
- 1579 were referred via campaign monitor (people who received the electronic newsletter shared the email with others)
- We have added a Traffic Updates page to the website to publicise information about the upcoming traffic switches.
- We have refreshed the Flickr feed with the most recent aerial photography taken in July.



Radio interviews:

Completed in July:

- Matt Brown – Engineering Manager
- Jemma Dutton – Environmental Advisor

Upcoming:

- Justin Redelinghuys – Project Director
- David Wheatley – North Zone Senior Project Engineer

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Staff Turnover

Rolling average for period June 2017 to July 2018 is 15.65%.



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Appendix A: Media Monitor

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News Media

[Air Chathams' Kāpiti to Auckland flights filling up](#)

New Zealand Herald-31/07/2018

... daily flights will be vital in shaping our economy, particularly alongside the opportunities major developments like **Transmission Gully** offer."



[Flights Vital To Shaping Economy](#)

Beach FM (blog)-31/07/2018

... daily flights, will be vital in shaping our economy – particularly alongside the opportunities major developments like **Transmission Gully** offer.

[Transmission Gully toll considered by government to offset cost rise](#)

Radio New Zealand-1/07/2018

Transmission Gully is New Zealand's first Private Public Partnership for a state highway, which means it is being financed, designed, ...

[Transmission Gully motorway looks likely to be user-pays after Labour ...](#)

Highly Cited-[Stuff.co.nz](#)-30/06/2018

[View all](#)



[Andrew Dickens: Transmission Gully toll no conspiracy, just stupidity](#)

Newstalk ZB-2/07/2018

Andrew Dickens: **Transmission Gully** toll no conspiracy, just stupidity coming and your days as sleepy **beach** towns are coming to an end.



Appendix B: Progress Reporting – Design

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Appendix C: CPBHEB JV Top Risks and Opportunities

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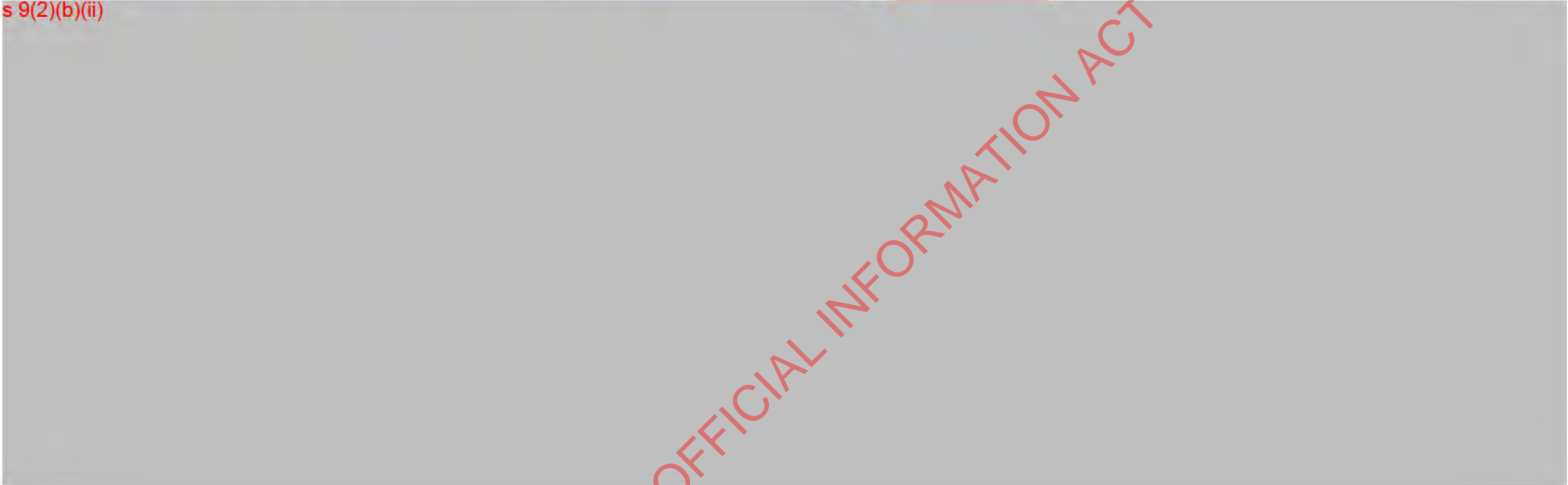
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Appendix D: Overall Staging Plan

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Appendix E: TG Notice Registers

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Appendix G: Reconciliation of Payment Claims and Invoices to Date

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Appendix H: Monthly Progress Claim Graph

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Appendix I: Revenue Flow Graph / Table

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Appendix J: Cash Received

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Appendix K: Programme Dashboard

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Appendix L: Non Conformance Reports

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Appendix M: Construction Programme – Key Milestones

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Appendix N: Photos

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Zone 1



Photo Above: A2 Fill 2B bridging layer



Photo Above: A2 Fill 2B PET layer 1



Photo Above: B1 Cut 2 looking north



Photo Above: B1 Bridge 3 North Excavation



Photo Above: B1 Lime drying fill Te Puka 5



Photo Above: B2 Cut 6.11

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Photo Above: B2 Horokiri section 5

Zone 2



Photos Above: Cut 26



Photos Above: Cut 35 to Fill 35



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Photo Above: SH58 Interchange

Zone 3



Photo Above: Bridge 25B



Photo Above: Bridge 26

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Photo Above: Bridge 27A



Photo Above: Cut 42



Photo Above: Subgrade CLR2

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Structures



Photos Above: Bridge 6



Photo Above: Bridge 13



Photos Above: Bridge 20 Pier 1



Photo Above: Bridge 20 – Launch Yard



Photo Above: Bridge 20 – Pier 2



Photo Above: Headwalls CH1850

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Photo Above: SH58

Project Wide



Photo Above: Bridge 14A and 14B



Photo Above: Bridge 15B

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