

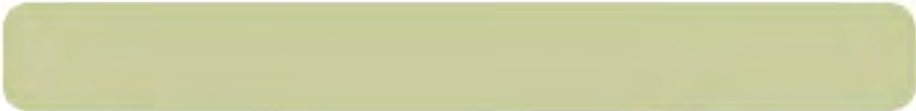
# Transmission Gully Project

Monthly Report to WGP

April 2018

TG-CPBH-RPT-ALL-GE-9169 Rev 00





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## Executive Summary

Over 4 million man hours completed on the Project to date. Earthworks production dropped behind the program target for the month of April due to a number of restrictions halting current productivity. The overall earthworks total exceeds 5.8 million m<sup>3</sup>, with a further 176,100m<sup>3</sup> completed in the month. A significant rain event occurred on the 9th – 11th April also impacting production during the period, as such, earthworks is now a minor negative variance against the V11 baseline target.

### Key Achievements:

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- Te Puka Section 4 completed earthworks to stream level.
- Horokiri Section 5 completed stage 2 rock rip rap, including access track
- Horokiri Section 4 stage 1 of rip rap channel 100% complete
- BR14/BR14A/BR15 both Abutments have now fully been handed over and have MSE wall construction commenced.
- Stage 1 L walls at Bridge 26 complete.
- Bridge 28 – Abutment A undercut backfill for the MSE Wall construction completed.
- RW5 – Soil nail wall complete.
- Bridge 6: The reinforcing on the bridge deck, wing walls and diaphragms have been completed as well as the first of two concrete bridge deck pours.
- Bridge 20 Pier 1: 6 of the 11 foundation concrete pours complete.
- Bridge 20 Pier 2: 6 of the 8 concrete pours complete.
- Bridge 20 Superstructure: Taken delivery of four structural steel girders to date.
- Bridge 14/14A RE Walls: 100% complete on abutment A.

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Boyd Knights

Project Director, D&C – Transmission Gully

CPB HEB Joint Venture

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## Safety and Health

### Overview

- 99 project inductions conducted during April.  
s 9(2)(b)(ii)
- 61 ConstructSafe assessments undertaken in April.  
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- Being at the Leading Edge Training (Safety Leadership Training) booked for two (two days each) courses to be conducted in mid-May, putting another 32 field based leaders through this course.

### Project Hours

Project Hours @ April 2018				
Area	Life Of Project	Last Month	This Month	12MR*
TG Project Total**	4,075,731	177,042	161,513	1,977,323

\*\* Excludes Early Works Hours

\*12MR = 12 Month Rolling Total

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**High Potential Incidents**

The Project experienced no Potential Class 1 Incidents (HPI - CPB HEB JV Classification) for the month of April.



Monthly Report to WGP April 2018



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## Construction

### Overview

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In Zone 1, the southern and northern tie in works have continued with subgrade works commencing in early May. Construction of the Sang Sue driveway has now been completed. Liquefaction works at Bridge 2 continued during the month with MSE Wall production recommencing in mid-May. Preparatory earthworks continued at Bridge 3 and initial site investigations have been completed. Further investigations will be undertaken in May. At Wainui, works have been heavily focused on new pond construction and pipe works to allow the decommissioning of existing SRPs and the opening up of additional fill area. As a result, only limited bulk earthworks were undertaken during the month with full production from Cut 5c recommencing in mid-May. This is reflected in the monthly production variances. At Horokiri, stream works have continued on Sections 4 and 5. Works are now progressing and the main channel on Section 5 is now cut and lined. Defishing of Sections 1 and 2 will commence in early May.

In Zone 2, Bridge 4 MSE works have now commenced and deck pours are underway at Bridge 6. Headwall construction at NRT9040 continues. Base slab works continue at Bridge 11. Final cut foundation works continue in Section E prior to handover of the construction platform. Preload removal was completed at Abutment A at Bridge 14a. Abutment B of Bridges 14, 14a and 15 have been handed over to the MSE team. The temporary bulk watermain relocation at Bridge 19 will complete mid-May.

A major milestone was achieved in Zone 3 with the completion of the Stage 1 L walls at Bridge 26. The Bridge 28 Abutment A foundation treatment has also been completed. Installation of soil nails to RW5 Section 5 is now completed. At Bridge 25 the Pier 1 concrete pour was completed.

At Bridge 20 a major milestone was reached with the arrival on site of the first four steel girders. The 6th foundation pour has been completed at Pier 1 and the team have commenced reinforcing works for pour 7. At Pier 2 reinforcement and formwork works continue for pours 6 and 7.

### Zone 1

#### Achievements

- Completed Coast Rd western batter topsoil, hydroseed between Ch. 190 and Ch. 1100
- Completed Fill 1 foundation treatment Ch. 1400 – Ch. 1520
- Completed Longitudinal drainage line MCK L3 in A2
- Completed Liquefaction foundation treatment north of Bridge 2 to ex SH1
- Removed all redundant temporary services and MCK 1850 stream diversion, following KCDC water main commissioning



## Monthly Report to WGP April 2018

- Te Puka Section 4: Completed earthworks to stream level
- Horokiri Section 5: Completed stage 2 rock rip rap, including access track
- Horokiri Section 4: Stage 1 of rip rap channel 100% complete
- Horokiri Section 3: Drainage Blanket 20% complete Ch. 7400 – Ch. 7700
- Slope stabilisation Cut 3.01NB to Cut 6.10NB ongoing.

### Upcoming Milestones

- Start Te Puka Section 4 stream channel early April
- Liven Horokiri Section 5 stream channel mid-June

### Challenges and Mitigation

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### Zone 2

#### Achievements

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- NRT/9040 major culvert headwall has had design issues due to changes from 90% to IFC. Additional steel has been ordered to compensate for this – targeting completion late May.
- Subgrade is completed in Fills 8A.01/8A.02. One side of the carriage way will now be capped with running course to maintain access throughout winter.
- BR08 temporary stream diversion completed and the Abutment A undercut is 50% completed. BR 08 Abutment A MSE foundation is planned to be completed by mid-June and Abutment B targeting early July.
- Cut 8 and 9 catch drain works are on-going with completing planned by mid-June.
- C2 Bulk earthworks ongoing for Fill 10B, Fill 11, Fill 12 & Fill 16.
- Bulk earthworks continue to progress across C3 fills. The wet weather and high moisture cuts are proving very difficult to maintain constant production with at least 2-3 days required for most fills to be dried after rain.
- Fill 19A Stream Diversion access works well underway and the temporary stream diversion due for completion by mid-May.
- BR14/BR14A/BR15 both abutments have now fully been handed over and have MSE wall construction commenced.
- Bulk earthworks ongoing in James Cook Interchange.
- BR16 Foundation treatment complete.



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- E1/2 Bulk from Cut 36.01 to Cut 42 – completed the last layer of construction platform and also cut foundation treatments ready for pavement.
- Finishing works in E1/2 is still on-going with completion planned by the end of May.

### Upcoming Milestones

- Completion of major culvert headwall at NRT/9040 and livening of culvert.
- Commencement of BR08 Abutment A foundation completion
- Fill 19A Stream Diversion completion
- Subgrade first layer installation in C3 – weather permitting
- Implementation of traffic management on SH58 to allow commencement of works for SH58 switch later in the year.
- Completion of utility culvert 20550 backfill.
- Commencement of major culvert headwall for STH/21310.
- Fill 35.02 (BR19) foundation treatment completion and fill to underside of MSE wall

### Challenges and Mitigations

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## Zone 3

### Achievements / Milestones

#### Section F1

- Bridge 27 – Abutment A RSE Embankment construction recommenced – 20% complete.
- Bridge 28 – Abutment A undercut backfill for the MSE Wall construction completed.
- Cut CLR2 completed.
- SH1 SB widening works at Bridge 27 – Abutment B commenced.
- Bridge 28 – Isolation Wall construction ongoing.



- Bridge 27 – Pier 3 Headstock construction on hold until Bridge 27 – Abutment B RSE Embankment progressed sufficiently.

## Section F2

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## Section F3

- Bridge 26 Stage 1 – L-Wall construction completed and precast concrete edge barrier installation ongoing.
- Bridge 26 Stage 1 – Northern approach embankment construction ongoing.
- Bridge 25 – Abutment A RSE and MSE Embankment construction ongoing – 8,438m<sup>3</sup> / 15,756m<sup>3</sup> – 54% complete.
- Bridge 25 – Abutment B MSE Embankment construction ongoing. RSE embankment will commence when MSE Wall has progressed sufficiently.
- Bridge 25 – Pier 1 Headstock completed.
- Subgrade preparation works ongoing in Cut 45 and Cut 46.
- ITS installation ongoing in Cut 45 and Cut 46.
- Road lighting installation along SH1 northbound and southbound ongoing.
- RW2 MSE Wall construction ongoing.
- RW4 – Capping beam and facing panel footing construction ongoing.
- RW5 – Soil nail wall complete.
- RW5 – Capping beam construction ongoing – 40% complete.
- Longitudinal drainage installation completed in Fill 47.
- Longitudinal drainage installation ongoing in Cut 46.

## Upcoming Milestones

- Completion of Bridge 26 Stage 1 – Approach embankments.
- Completion of RW4 & 5 capping beam and facing panel footing.
- Completion of Longitudinal Drainage Lines in Cut 46 & Cut 47.
- Completion of SH1 Southbound widening works at Bridge 27 – Abutment B.
- Commencement of Bridge 27 – Abutment B RSE Embankment.
- Completion of ITS and Road Lighting installation to facilitate Phase 2 traffic switch.
- Commencement of pavement construction in Cut 45 and South of Bridge 26.

## Challenges & Mitigation Strategies



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## Structures

### Achievements

- MCK1850: Both the inlet and the outlet base slabs for the headwalls completed and also installed pipes to manage the storm water.
- Bridge 3: The first stage of the rock testing on the south side of the arch footing is complete. The Earthworks Team will now continue with the access construction, opening up additional areas for us to test.
- Bridge 6: The reinforcing on the bridge deck, wing walls and diaphragms have been completed as well as the first of two concrete bridge deck pours.
- Bridge 11: The reinforcing for the base slab has been installed. Commenced placing the shutters.
- Bridge 13:
  - Abutment A – Commenced fixing the reinforcing for the abutment beam – 80% complete.
  - Abutment B – Blinding has been placed and commenced the installation of the reinforcing.
- Bridges 14: Abutment A – Abutment beam has been poured.
- Bridge 20:
  - Pier 1: Commenced with the foundation construction works and completed 6 of the 11 foundation concrete pours. The seventh concrete pour is planned for first week of May 2018.
  - Pier 2: Completed 6 of the 8 foundation concrete pours with pour 7 programmed for the first week of May 2018.
  - Superstructure: The assembling of the launching hardware and permanent structural steel girders is well underway in the launch yard. We have taken delivery of four structural steel girders to date.

### Upcoming Milestones

- Bridge 6 – First Bridge deck concrete pour.
- Bridge 11 – Base slab concrete pour.
- Bridge 14 & 14a – Completion of the Abutment B REL Walls.
- Bridge 20:
  - Pier 2 – Completion of the foundation construction.
- Culvert Headwall CH1850: Complete both (Inlet & outlet) wing wall concrete pours.

### Challenges



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## Utilities and ITS

### Achievements

- KCDC permanent water pipeline commissioned
- Bridge 19 temporary bulk water relocation continues – target completion in early May.
- Duct installation continues at SH58 on night shift.

### Milestones

- Bridge 19 temporary bulk water relocation – early May
- Te Marua bulk water relocation – June – August
- Bridge 19 permanent water relocation – September – October

### Challenges and Mitigations

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Project Wide Works

**Achievements**

**Keystone Block MSE Walls**

Wall Location	Wall Label	Actual Area	Total Complete	Comment on Progress
Bridge 12	203A1, 203A2, 203B1, 203B2	s 9(2)(b)(ii)		
Bridge 25	307B, 307D			
RW2	RW2			
<b>TOTAL</b>	All Keystone MSE Walls			

**Reinforced Earth Retaining Walls**

Wall Location	Wall Label	Design Area	Total Complete	Comment on Progress
Bridge 2	103A, 103A1, 103A2, 103B, 103B1, 103B2	934 m2	s 9(2)(b)(ii)	
Bridge 4	105A, 105B	648m2		
Bridge 13	204A, 204A1, 204A2, 204B, 204B1, 204B2	798 m2		
Bridge 14	205A, 205B	268 m2		
Bridge 14A	205E, 205F	190 m2		



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			s 9(2)(b)(ii)
Bridge 15	205C, 205C1, 205C2, 205D, 205D1, 205D2	1008 m2	
<b>TOTAL</b>	All Reinforced Earth Walls	10,330 m2	

- BR15, 14, 14A, 13, 8, 6, 4 and 2 panel production is now 100% complete and delivered to site. Reinforced Earth Ltd have commenced fabrication of panels for Bridge's 16 (15% complete) and 19 (70% complete).
- 90% Design received from Reinforced Earth – BR16, BR19, and BR24.
- FDD for BR13.
- Design submitted to NZTA for review BR4.
- IFC Design for BR2, BR3, BR6, BR8, BR14, BR14A, BR15.

**ITS Duct, Lighting Conduits and Chambers Installation**

Conduit Type	Zone	Measurement Complete
ITS Backbone	F3	s 9(2)(b)(ii)
Lighting Conduit	F3	

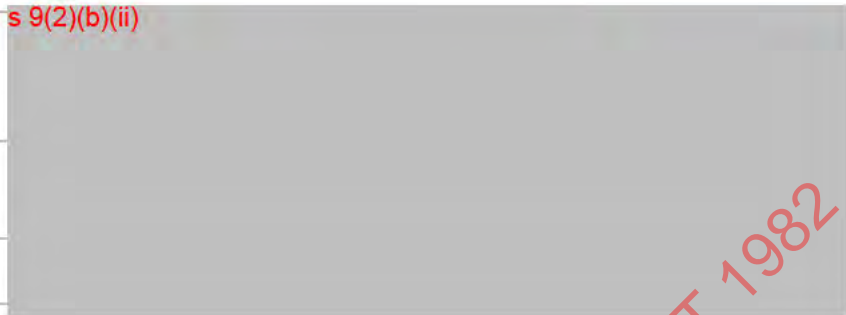
**Landscaping**

Type	Design Quantity	Quantity Complete	Percentage Complete	Measurement Complete
Mitigation Planting	2,441,268 m2	s 9(2)(b)(ii)		



**Monthly Report to WGP April 2018**

Landscape Planting	998,569 m2
Hydro seeding	1,174,011m2
<b>TOTAL</b>	<b>4,613,848 m2</b>



**Traffic Management**

- Gate Shift – Gate 20 SH1 Complete.
- Stage 1 – Paekakariki Northbound lane shift complete (Gate 2).
- Additional VMS boards were installed at Linden northbound and southbound lanes, to advise the traffic to slow down on approach to the temporary traffic management speed zones.
- Deliveries were taken through gate 20 from SH1 southbound for the Bridge 20 girders. Four deliveries have been completed to date from a total of 44.

**Upcoming Milestones**

The following Mechanically Stabilised Earth (MSE) Walls expected to commence in May:

- Bridge 16; Bridge 28; RW7; RW9

**ITS Duct and Chambers Installation**

- First sections of the ITS backbone being installed in the first quarter of 2018:
  - E1 / E2 Ch. 2400 – 26100
  - C1 Ch. 9900 – 11100
  - Road Xing Ch. 24600

**Permanent Barrier Installation**

- First sections of permanent barrier progressively being installed during the month.

**Permanent Line Marking Installation**

- First sections of permanent line marking being installed in the second quarter of 2018.

**Landscaping Planting**

- Ongoing hydroseeding treatments
- Placement of geosocks (bank stabilisation) ongoing.
- Propagation of plants for Landscaping ongoing.

**Mitigation Planting**

- Pest Management site wide commencing in the first quarter of 2018.

**Traffic Management**



## Monthly Report to WGP April 2018

- Stage 2 – Paekakariki Southbound lane shift programmed for July (Gate 2)
- Linden southbound permanent pavement works on the shoulder continuing until the end of May, at which point the traffic team will be installing a traffic separation device. This is being utilised as a trial on the project. It will be assessed if this separation device is more effective than bollards on their own.
- At Linden there will be various night closures in April – June to allow for shoulder widening activities. This is preparation works for the Stage 2 Traffic Switch.
- Mid-May, the project will be rearranging the lanes on SH58.

### Challenges and Mitigation

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### Pavements / Stage 2 Earthworks

#### Achievements

- Farmers Quarry – Consent progressing. Awaiting minor changes from aquatic experts and quarry management drawings from EIC.
- Stage Two Earthworks Application 5 ready for draft review by NZTA ex GWRC pre-application meeting

#### Milestones

- Nil

### Challenges and Mitigation

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## Communications / Stakeholder

### Community Engagement

#### Stakeholder Concerns and Issues

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An update on progress was provided to the Paekakariki Community Board meeting held on April 19. Information on the upcoming traffic switch at the northern end of the work at McKays Crossing was also provided. This was well received.

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We have had a number of requests for presentations to various community groups in June and July. These are good opportunities to strengthen relationships with our affected communities.

### Communications

#### Construction Updates / Quarterly e-Newsletter

April construction update approved by NZTA with final dispatch to database 4 May.

May project newsletter draft content underway. The first draft due for review 14 May with scheduled dispatch to database 25 May.





We have had 82 new subscribers in April taking our subscriber list to a total of 2,757 from the initial list of 890 we started with in early 2017. Each month we get very positive feedback on the content and it is pleasing that people take the time to contact us to give compliments.

### Website

We had 11,005 page views in the month of April.

- 5,690 people found the website through a Google search
- 1,701 were referred via campaign monitor (people who received the electronic newsletter shared the email with others)

The most popular pages included:

- The project's home page, with 3622 visitors
- The Project newsletter received 1961 visitors
- The gallery page received 1837 visitors who spent on average three and a half minutes on the page
- Other popular pages included, the videos, maps and media pages.

### Media

#### Upcoming

- Final changes back from NZTA on summer season earthworks PR
  - To go to Media with b-roll footage and aerial photos 4 May (to align with broader construction update).
- Lizard release PR underway.

#### Beach FM Interviews

- 8 May – Rudolf Joubert, Structures Manager – “Structures underway for the Project and resilience built into these”.

#### Project Photography

- April aerial photos released with April Construction update.
- Photography and video footage of progress on the ground to be loaded to website.



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### New People

The following staff commenced on the Project during the month of April:

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- Site Engineer
- Site Engineer
- Site Engineer
- Administrator

### Voluntary Staff Churn

Rolling average for period April 2017 to April 2018 is 12.18%.

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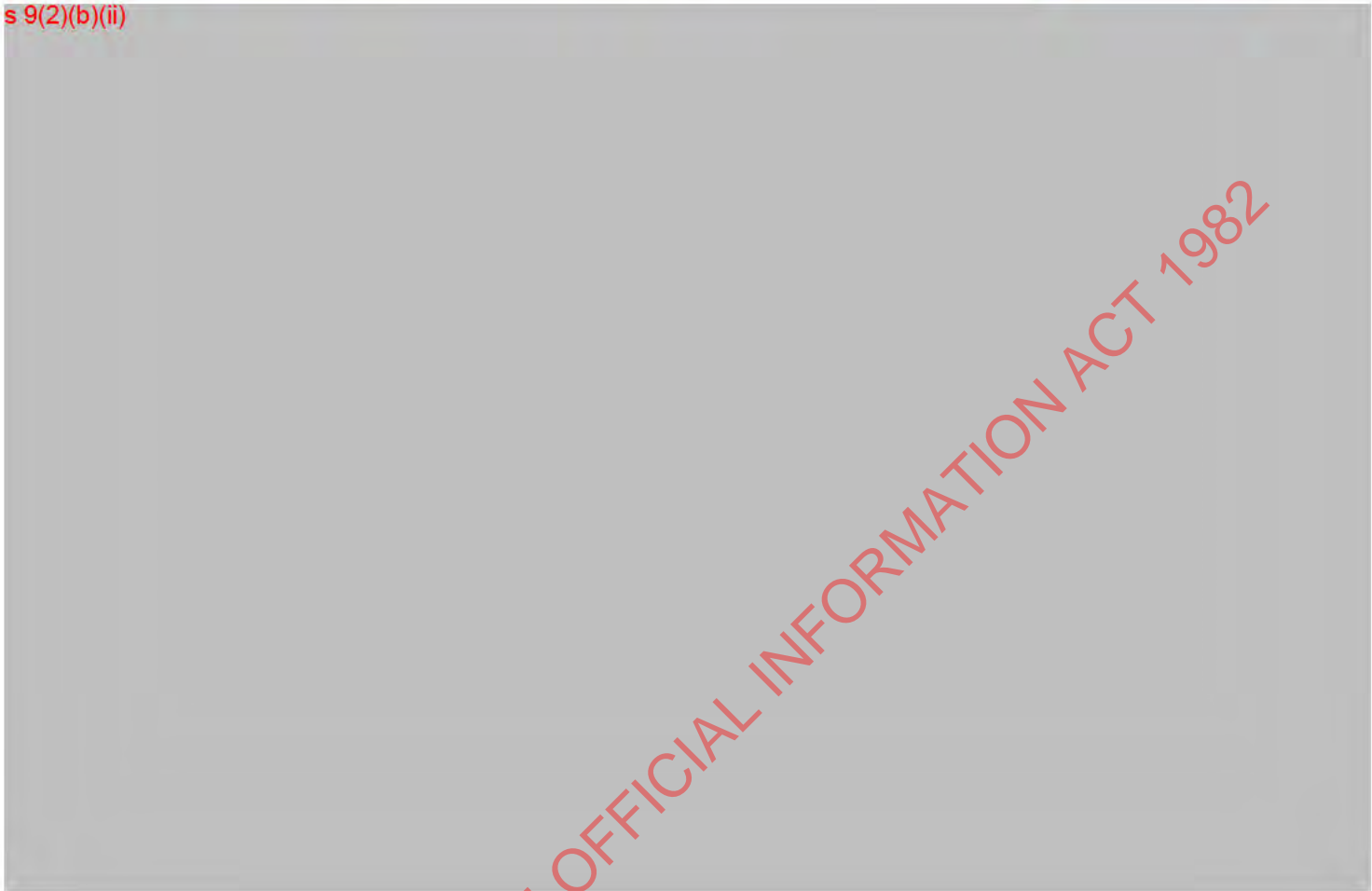


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**Appendix A: Media Monitor**

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News Media

[Long wait for \*\*Transmission Gully\*\* too slow for 96 year old](#)

New Zealand Herald-9/04/2018

That was in 1957 and when Ettie died this month, at the age of 96, 60 years later, one of her very few regrets was not living long enough to see that highway, **Transmission Gully**, completed. It has been over half a century, but progress is at last being made, with construction underway. Ettie took a great deal ...



[Old state highways, new council roads: Major changes for Porirua ...](#)

The Dominion Post-26/04/2018

The New Zealand Transport Agency and Porirua City Council are planning to put sections of SH1 and SH58 through a revocation process that would see them change from state highways run by the NZTA into local roads run by the council once drivers have switched to using **Transmission Gully** after it ...



[Unions challenge 100 migrant workers brought in for \*\*Transmission Gully\*\*](#)

Scoop.co.nz (press release)-19/04/2018

A hundred workers have been brought in from the Philippines to work on Wellington's huge **Transmission Gully** roading project, infuriating unions who insist there are locals who can do the job. The Filipinos have been brought over to operate heavy machinery, like diggers and excavators. But unions and ...

[Porirua forecasting annual rises of more than 5 per cent for the next ...](#)

The Dominion Post-15 hours ago

The other significant expenditure involved roading, particularly the link roads and the anticipated growth from the **Transmission Gully** motorway. Tana said balancing the council's budget by 2021/2022 was a priority already established in the last Long-Term Plan, and previous rating for depreciation had ...

[It's a skill shortage, dummy, not a labour shortage...](#)

Scoop.co.nz (press release)-16 hours ago

Opinion piece: Leading Auckland immigration lawyer Aaron Martin weighs in on the re-cent comments in the media from unions about **transmission gully** and the concerns around labour short-ages taking jobs from New Zealanders. Recently unions have been griping about ex-patriot workers being brought ...

[Otago Daily Times](#)

[Brian Gaynor: Fletcher a reputation that needs rebuilding](#)

New Zealand Herald-20/04/2018

This motorway project, which is expected to be finished in late 2021, is New Zealand's second state highway Public Private Partnership (PPP), after the **Transmission Gully** motorway



project in Wellington. The new motorway is 18.5km long and has a "net present" contract price of \$709.5m. This week's ...

[SunLive](#)

[Anger spills out at hearing on Bay of Plenty road upgrade priorities](#)

New Zealand Herald-10/04/2018

Dunlop said the traffic volumes through Katikati were considerably more than Wellington's \$1 billion **Transmission Gully** project. Katikati resident John Logan said he was sure he spoke for many people who felt they were the victims of contempt and disinterest. The bypass was languishing at 15th while a ...

[Porirua minds get together as stars align for growth](#)

Stuff.co.nz-29/04/2018

**Transmission Gully** would "make Porirua more accessible," improving its connection to Wellington and its business resilience. Wilkinson said Porirua residents had traditionally had a strong connection with their shopping centre but over the years, some of those businesses had been forced out because of ...

[Australian rich-lister buys Porirua's North City mall for \\$100m](#)

Stuff.co.nz-10/04/2018

Two years ago North City managers told Porirua City Council they feared the **Transmission Gully** expressway would divert traffic away from the centre. The sale does not include two vacant shops on Lydney Place next to the shopping centre. Their building has a nearly earthquake-prone rating of 34 per ...

[Ōtaki to north of Levin expressway in limbo after transport policy ...](#)

The Dominion Post-5/04/2018

The expressway would help move traffic up the North Island, and link to **Transmission Gully**, the Kāpiti Expressway and Peka Peka to Ōtaki road project. "It makes logical sense for the bulldozers to carry on, otherwise Levin will be the worst choke point in the lower North Island." The Levin expressway met ...

[Manawatū Gorge construction likely to bring good, bad and ugly](#)

The Dominion Post-29/04/2018

That gave residents the prospect of going on to other construction jobs, such as the Peka Peka to Ōtaki Expressway and parts of **Transmission Gully**. Employment was also secured through the need to plant and maintain tens of thousands of native shrubs and trees along the Kāpiti Expressway, Gurunathan ...

[Mike Williams: Government must tread warily in immigration high-wire ...](#)

New Zealand Herald-27/04/2018

With about 80,000 young Kiwis classified as not in employment, education or training (NEETs) it seemed strange that contractors building the **Transmission Gully** motorway out of Wellington were asking Immigration New Zealand for permission to recruit and employ 100 foreigners to work on the project.

[Kāpiti businesses want expressway completed to Levin](#)

Scoop.co.nz (press release)-23/04/2018

"Our local businesses have been eagerly anticipating the potential that an Expressway from Levin to Kāpiti will bring, particularly once it's connected with **Transmission Gully**. If the road were to stop abruptly north of Ōtaki, it would severely restrict the future growth of our region". Angela Buswell, a Kāpiti .

[A sign of consultation? Transport agency changes signs before public ...](#)

The Dominion Post-14/04/2018



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The consultation is part of a country-wide review on speed limits. Last month, Upper Hutt Mayor Wayne Guppy was unaware about any proposal to drop limits on SH58 and SH2 but said his council would "have plenty to say" about the matter. "When **Transmission Gully** is up and running, SH58 will be the ...

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**Appendix B: Progress Reporting – Design**

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**Appendix C: CPBHEB JV Top Risks and Opportunities**

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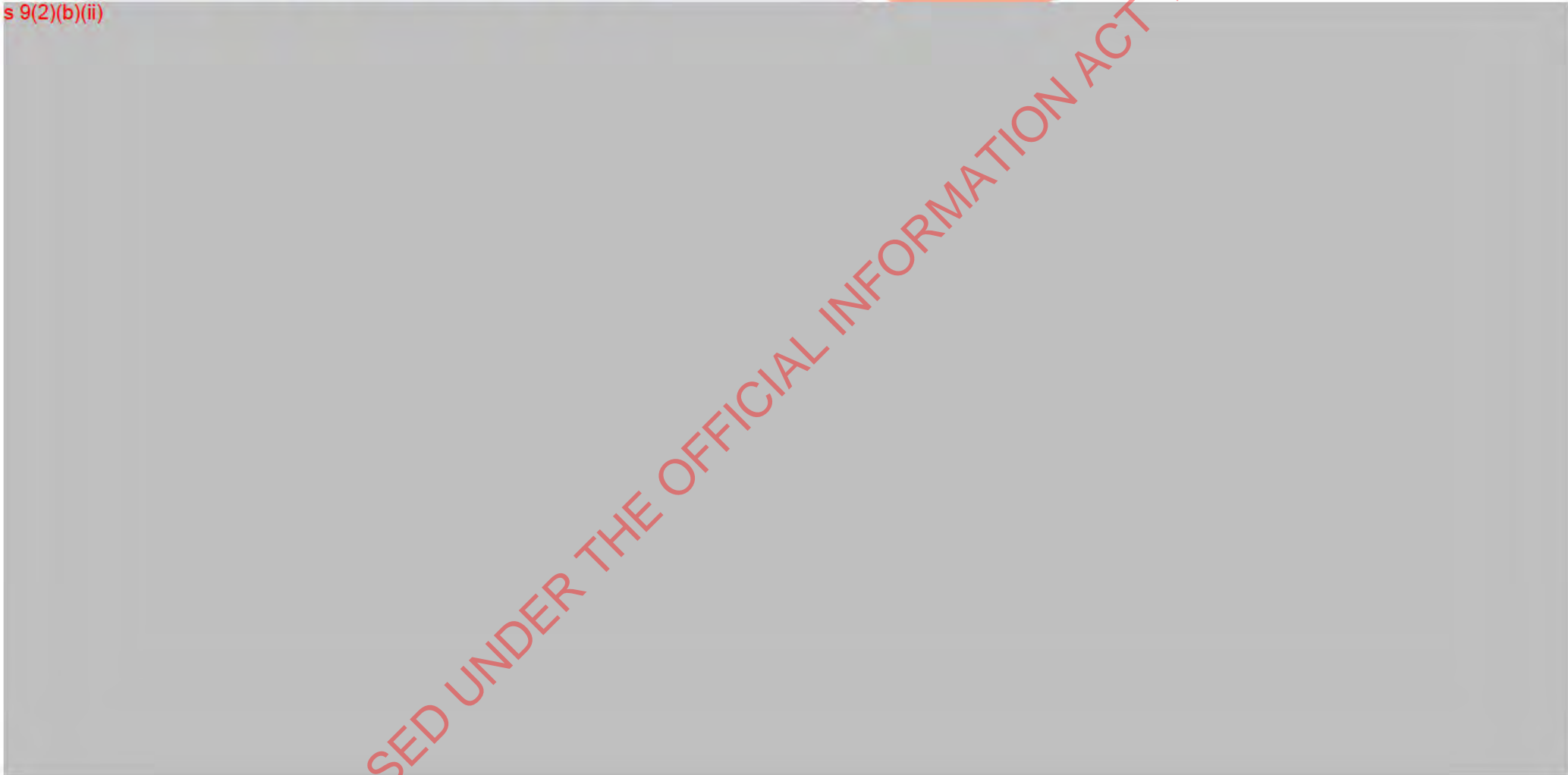
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**Appendix D: Overall Staging Plan**

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**Appendix E: TG Notice Registers**

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**Appendix F: Procurement Status**

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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

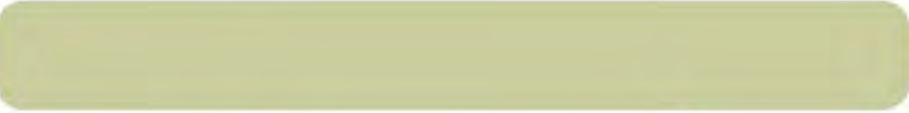


Photo Above: A1 Coast Rd batter stabilisation



Photo Above: A2 MCK1850 Bridge 2

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**Monthly Report to WGP April 2018**



Photo Above: B1 Bridge 3 North Excavation



Photo Above: B1 Cut 3.01 Soil Nail Installation.

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**Monthly Report to WGP April 2018**



Photo Above: B1 Cut 5c 01SB



Photo Above: Cut 6.10 fill5



Photo Above: Horokiri Stream diversion Section 4

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Zone 2



Photo Above: 9040 Culvert



Photo Above: 9040 Culvert



Photo Above: Cut 36 DB



Monthly Report to WGP April 2018



Photo Above: Fill 40 DB



Photo Above: D1 looking south



Photo Above: Fill 24A

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**Monthly Report to WGP April 2018**



Photo Above: Fill 40 Cut – Fill Transition



Photo Above: SH58 Interchange



Photo Above: SH58 Interchange

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Zone 3



Photo Above: Bridge 25 – Abutment A RSE Construction



Photo Above: Bridge 25 headstock construction



Photo Above: Bridge 26 - Northern Approach Embankment Construction



Structures



Photo Above: Bridge 11 base slab



Photo Above: Bridge 13 – Abutment A – Abutment Beam Reo

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Photo Above: Bridge 14 – Abutment A – Abutment Beam



Photo Above: Bridge 20 launch yard



Photo Above: Bridge 20 launch yard



Photo Above: Bridge 20 Pier 2

Project Wide



Photo Above: Bridge 4 south

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Photo Above: Bridge 12



Photo Above: Bridge 14A



Photo Above: Bridge 15

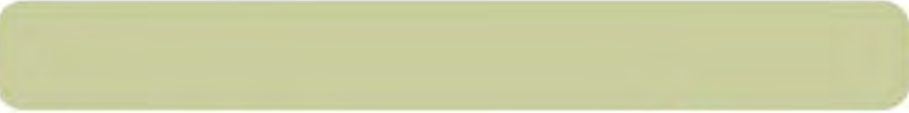


Photo Above: ITS Duct Bank



Photo Above: SH58 Interchange

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Photo Above: Iwi Blessing for the lizard release



Photo Above: Lizard release

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Utilities



Photo Above: 900mm diameter bulk water pipe being fabricated for Bridge 19



Photos Above: Spools installed for the Br19 temporary water relocation to tie in to 2

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