

Chainage 00.000
Datum: 45.000

PROPOSED LEVELS	45.382	47.496	50.092
EXISTING LEVELS	45.371	47.496	50.092
LEVEL DIFFERENCE	0.012	0.000	0.000
OFFSETS	-6.128	0.000	7.291

Total Volume at Station 0+000.00		
Cut Vol	0.00	
Fill Vol	0.00	

Chainage 20.000
Datum: 40.000

PROPOSED LEVELS	45.683	46.498	44.974
EXISTING LEVELS	45.683	45.539	44.974
LEVEL DIFFERENCE	0.000	0.959	0.000
OFFSETS	-3.530	0.000	4.948

Total Volume at Station 0+020.00		
Cut Vol	0.00	
Fill Vol	44.29	

Chainage 10.000
Datum: 45.000

PROPOSED LEVELS	45.889	46.622	46.237
EXISTING LEVELS	45.889	45.980	46.237
LEVEL DIFFERENCE	0.000	0.642	0.000
OFFSETS	-3.365	0.000	2.669

Total Volume at Station 0+010.00		
Cut Vol	22.62	
Fill Vol	27.42	

Chainage 30.000
Datum: 40.000

PROPOSED LEVELS	44.811	46.498	43.387	43.292
EXISTING LEVELS	44.811	44.555	43.338	43.292
LEVEL DIFFERENCE	0.000	1.943	0.049	0.000
OFFSETS	-5.273	0.000	8.124	8.314

Total Volume at Station 0+030.00		
Cut Vol	0.00	
Fill Vol	106.61	

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
WESTERN TUNNEL BUND
CROSS SECTIONS

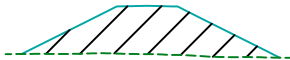
Project
WAIPAOPA RIVER

Date
08.06.2026

Scale
1:500 @ A3

Sheet
1

Chainage 36.055
Datum: 40.000



Total Volume at Station 0+036.05	
Cut Vol	0.00
Fill Vol	146.52

PROPOSED LEVELS	43.307		46.498	43.454	43.064
EXISTING LEVELS	43.307		43.304	43.076	43.064
LEVEL DIFFERENCE	0.000		3.194	0.378	0.000
OFFSETS	-8.284		0.000	7.998	8.776

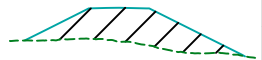
Chainage 50.000
Datum: 45.000



Total Volume at Station 0+050.00	
Cut Vol	0.00
Fill Vol	117.48

PROPOSED LEVELS	45.700		46.499	45.098	
EXISTING LEVELS	45.700		45.764	45.098	
LEVEL DIFFERENCE	0.000		0.735	0.000	
OFFSETS	-3.498		0.000	4.703	

Chainage 40.000
Datum: 40.000



Total Volume at Station 0+040.00	
Cut Vol	0.00
Fill Vol	104.16

PROPOSED LEVELS	44.331	44.937	46.499	43.367	43.279
EXISTING LEVELS	44.331	44.331	44.235	43.314	43.279
LEVEL DIFFERENCE	0.000	0.606	2.264	0.053	0.000
OFFSETS	-6.235	-5.023	0.000	8.165	8.339

Chainage 60.000
Datum: 45.000

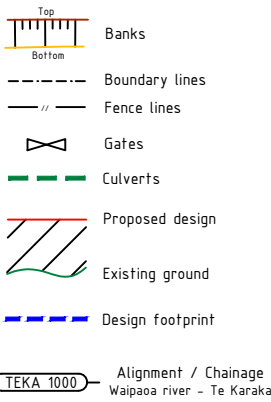


Total Volume at Station 0+060.00	
Cut Vol	0.00
Fill Vol	26.89

PROPOSED LEVELS	46.348	46.572	46.248		
EXISTING LEVELS	46.348	46.342	46.248		
LEVEL DIFFERENCE	0.000	0.230	0.000		
OFFSETS	-2.349	0.000	2.549		

General Notes

Keys

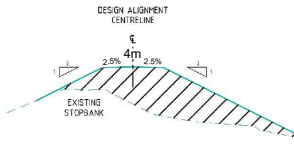


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
WESTERN TUNNEL BUND
CROSS SECTIONS

Project WAIPAOA RIVER	Sheet 2
Date 08.06.2026	
Scale 1:500 @ A3	

Chainage 70.000
Datum: 45.000

PROPOSED LEVELS	47.412	47.262	47.123
EXISTING LEVELS	47.412	47.194	47.123
LEVEL DIFFERENCE	0.000	0.068	0.000
OFFSETS	-2.400	0.000	2.177

Total Volume at Station 0+070.00	
Cut Vol	0.52
Fill Vol	5.63

Chainage 73.136
Datum: 45.000

PROPOSED LEVELS	49.774	47.501	47.370
EXISTING LEVELS	49.953	47.501	47.370
LEVEL DIFFERENCE	-0.179	0.000	0.000
OFFSETS	-6.646	0.000	2.160

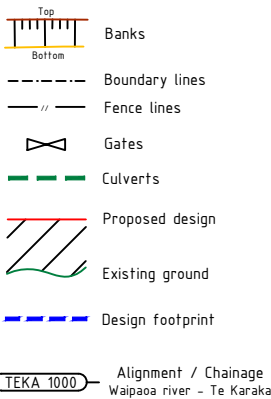
Total Volume at Station 0+073.14	
Cut Vol	2.80
Fill Vol	0.49

Total Volume Table

Station	Fill Area	Fill Volume	Cumulative Fill Vol
0+000.00	2.49	0.00	0.00
0+010.00	2.99	27.42	27.42
0+020.00	5.87	44.29	71.71
0+030.00	16.96	106.61	178.32
0+036.05	33.52	146.52	324.84
0+040.00	21.36	104.16	429.00
0+050.00	4.52	117.48	546.48
0+060.00	0.93	26.89	573.37
0+070.00	0.20	5.63	579.00
0+073.14	0.12	0.49	579.49

General Notes

Keys

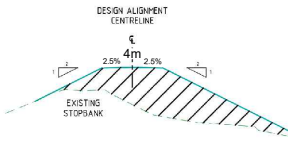


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
WAIPA OA RIVER
TE KARAKA - TOWNSHIP
WESTERN TUNNEL BUND
CROSS SECTIONS

Project WAIPA OA RIVER	Sheet 3
Date 08.06.2026	
Scale 1:500 @ A3	