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Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Existing Ground.12dmodel Project: 24113 Existing Ground Plotted: 24 /09 /26 16:56

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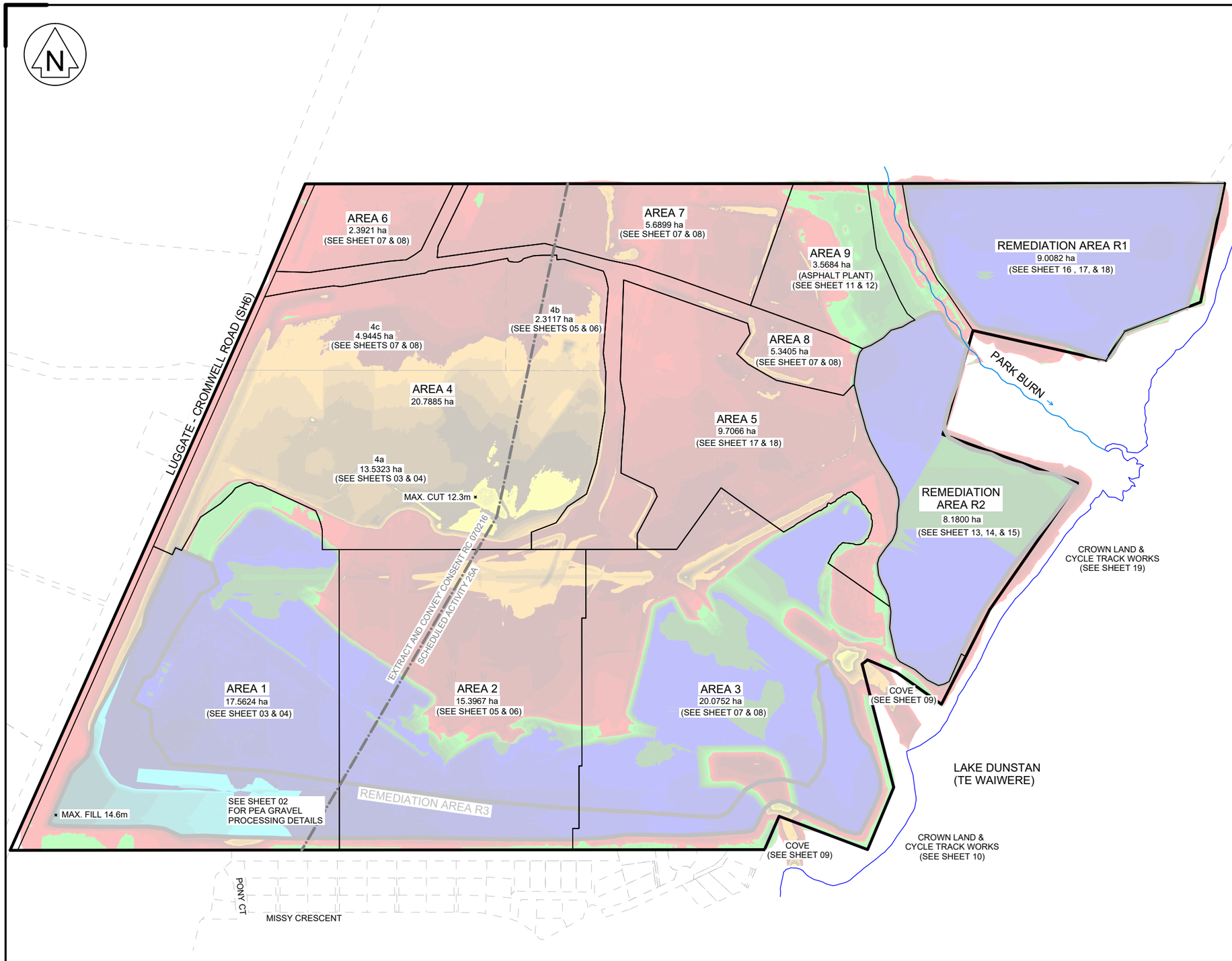
DESIGN CONTOURS

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By
A	09 2026	Lot layout updated with road width changes	KA

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 112_01
Drawn: KA	Date: 05 2026	Scale: 1:5000 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: A



BULK EARTHWORKS METHODOLOGY

1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE IN PLACE IN ACCORDANCE WITH THE ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO COMMENCEMENT OF BULK EARTHWORKS WITHIN ACTIVE AREAS.

2. PEA GRAVEL PROCESSING IN REMEDIATION AREA R3
   (SEE SHEET 02)
   - EXTRACT, CRUSH, AND STORE PEA GRAVEL IN 2 X STOCKPILES

3. CUT TO FILL IN AREA 1
   (SEE SHEET 03)
   - EXTRACT MATERIAL FROM AREA 4a, CART AND PLACE IN AREA 1
   - EXTRACT MATERIAL FROM WITHIN AREA 1, PLACE IN AREA 1
   - CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 1

4. STABILISE AREA 1 (AND, BY EXTENSION, AREA 4a)
   (SEE SHEET 04)
   - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
   - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

5. CUT TO FILL IN AREA 2
   (SEE SHEET 05)
   - EXTRACT MATERIAL FROM AREA 4b, CART AND PLACE IN AREA 2
   - EXTRACT MATERIAL FROM WITHIN AREA 2, PLACE IN AREA 2
   - CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 2

6. STABILISE AREA 2 (AND, BY EXTENSION, AREA 4b)
   (SEE SHEET 06)
   - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
   - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

7. CUT TO FILL IN AREA 3
   (SEE SHEET 07)
   - EXTRACT MATERIAL FROM AREA 4c, 6, 7 & 8; CART AND PLACE IN AREA 3
   - EXTRACT MATERIAL FROM WITHIN AREA 3, PLACE IN AREA 3
   - CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 3

8. STABILISE AREA 3 (AND, BY EXTENSION, AREA 4c, 6, 7, AND 8)
   (SEE SHEET 08)
   - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
   - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE
   - CONSTRUCT COVE LININGS AND PLANTINGS

9. EXCAVATE OPENINGS BETWEEN THE COVES AND THE LAKE
   (SEE SHEET 09)
   - EXTRACT MATERIAL FROM LAKESIDE BUNDS

10. CONSTRUCT INTERFACE BETWEEN SITE AND LAKE
    (SEE SHEET 10)
    - REFER TO CROWN LAND CYCLE TRACK WORKS PLAN 24113_107
    - COMPLETE CYCLE TRACK WORKS FROM CH 0 TO CH 880

11. CUT TO FILL IN AREA 9
    (SEE SHEET 11)
    - EXTRACT MATERIAL FROM AREA 9, CART AND PLACE IN AREA 9

12. STABILISE AREA 9
    (SEE SHEET 12)
    - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
    - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

13. PEA GRAVEL PROCESSING IN REMEDIATION AREA R2
    (SEE SHEET 13)
    - EXTRACT, CRUSH, & STORE PEA GRAVEL IN STOCKPILE WITHIN AREA R2

14. CUT TO FILL IN REMEDIATION AREA R2
    (SEE SHEET 14)
    - CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA R2

15. STABILISE AREA R2
    (SEE SHEET 15)
    - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
    - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

16. PEA GRAVEL PROCESSING IN REMEDIATION AREA R1
    (SEE SHEET 16)
    - EXTRACT, SCREEN, CRUSH, AND STORE PEA GRAVEL IN STOCKPILE WITHIN AREA R1
    - DISPOSE OF UNSUITABLE MATERIAL

17. CUT TO FILL IN REMEDIATION AREA R1
    (SEE SHEET 17)
    - CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA R1
    - EXTRACT MATERIAL FROM WITHIN AREA R1, PLACE IN AREA R1
    - EXTRACT MATERIAL FROM AREA 5, CART AND PLACE IN AREA R1

18. STABILISE AREA R1 (AND, BY EXTENSION, AREA 5)
    (SEE SHEET 18)
    - TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
    - DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

19. CONSTRUCT INTERFACE BETWEEN SITE AND LAKE
    (SEE SHEET 19)
    - REFER TO CROWN LAND CYCLE TRACK WORKS PLAN 24113_107
    - COMPLETE CYCLE TRACK WORKS FROM CH 880 TO CH 1830

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BULK EARTHWORKS STAGING - METHODOLOGY OVERVIEW

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_01
Drawn: KA	Date: 05 2026	Scale: NTS	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

2. PEA GRAVEL PROCESSING IN REMEDIATION AREA R3
- EXTRACT, CRUSH, AND STORE PEA GRAVEL IN 2 X STOCKPILES

N

LUGGATE - CROMWELL ROAD (SH6)

REMEDIATION AREA R1
(SEE SHEET 16, 17 & 18)

PARK BURN

REMEDIATION AREA R2
(SEE SHEET 13, 14 & 15)

"EXTRACT AND CONVEY" CONSENT RC 070216
SCHEDULED ACTIVITY 25A

NOTE:
PEA GRAVEL PROCESSING TO TAKE PLACE WITHIN AREA 1 FIRST.
PEA GRAVEL PROCESSING IN AREAS 2 AND 3 WILL TAKE PLACE CONCURRENTLY WITH AREA 1 BULK CUT TO FILL WORKS.

STOCKPILE (CRUSHED PEA GRAVEL)

STOCKPILE (CRUSHED PEA GRAVEL)

REMEDIATION AREA R3
AREA: 10.62 ha
VOLUME OF PEA GRAVEL: 726,100 m3 (loose)

LAKE DUNSTAN (TE WAIWERE)

CUT

Cut/Fill Depths				
Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

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BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R3)

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_02
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

3. CUT TO FILL IN AREA 1
- EXTRACT MATERIAL FROM AREA 4a, CART AND PLACE IN AREA 1
- EXTRACT MATERIAL FROM WITHIN AREA 1, PLACE IN AREA 1
- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 1

LUGGATE - CROMWELL ROAD (SH6)

MATERIAL TO BE EXCAVATED FROM AREA 4:
799,200 m3 (loose)
726,500 m3 (solid)
13.5323 ha

AREA 1
17.5624 ha

FILL REQUIRED: 1,186,900 m3
(solid measure)

726,500 m3 (solid measure) cut to fill from Area 4 to Area 1.

STOCKPILE (CRUSHED PEA GRAVEL)

39,400 m3 (solid measure) cut to fill within Area 1.

421,000 m3 (solid measure) of crushed Pea Gravel to be placed as certified fill.

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY 25A

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
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1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

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BULK EARTHWORKS STAGING - AREA 1 - CUT TO FILL

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_03
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

4. STABILISE AREA 1 (AND, BY EXTENSION, AREA 4a)
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

LUGGATE - CROMWELL ROAD (SH6)

31.0947 ha

BATTER SLOPES AND/OR BENCHING TO BE PROVIDED AT INTERFACE WITH AREA 2 TO ENSURE SITE STABILITY AND MAINTAIN SAFE WORKING CONDITIONS

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

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BULK EARTHWORKS STAGING - AREA 1 - STABILISATION

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922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_04
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

5. CUT TO FILL IN AREA 2
- EXTRACT MATERIAL FROM AREA 4b, CART AND PLACE IN AREA 2
- EXTRACT MATERIAL FROM WITHIN AREA 2, PLACE IN AREA 2
- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 2

LUGGATE - CROMWELL ROAD (SH6)

AREA 4b
2.3117 ha

MATERIAL TO BE EXCAVATED FROM AREA 4b:
96,600 m3 (loose)
87,800 m3 (solid)

PARK BURN

AREA 2
15.3967 ha

FILL REQUIRED: 454,900 m3
(solid measure)

87,800 m3 (solid measure) cut to fill from Area 4 to Area 2.

287,300 m3 (solid measure) cut to fill within Area 2.

79,800 m3 (solid measure) of crushed Pea Gravel to be placed as certified fill.

EXTRACT AND CONVEY CONSENT RC 070216

SCHEDULED ACTIVITY 25A

STOCKPILE (CRUSHED PEA GRAVEL)

LAKE DUNSTAN (TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
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8	to	9	m	
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10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

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BULK EARTHWORKS STAGING - AREA 2 - CUT TO FILL

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_05
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
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6. STABILISE AREA 2 (AND, BY EXTENSION, AREA 4b)
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE

LUGGATE - CROMWELL ROAD (SH6)

2.3117 ha

15.3967 ha

PARK BURN

BATTER SLOPES AND/OR BENCHING TO BE PROVIDED AT INTERFACE WITH AREA 2 TO ENSURE SITE STABILITY AND MAINTAIN SAFE WORKING CONDITIONS

LAKE DUNSTAN
(TE WAIWERE)

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BULK EARTHWORKS STAGING - AREA 2 - STABILISATION

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_06
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

7. CUT TO FILL IN AREA 3
- EXTRACT MATERIAL FROM AREA 4c, 6, 7 & 8; CART AND PLACE IN AREA 3
- EXTRACT MATERIAL FROM WITHIN AREA 3, PLACE IN AREA 3
- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 3

MATERIAL TO BE EXCAVATED FROM AREA 6:
29,500 m3 (loose)
25,200 m3 (solid)
2.3921 ha

MATERIAL TO BE EXCAVATED FROM AREA 7:
66,550 m3 (loose)
60,500 m3 (solid)
5.6899 ha

MATERIAL TO BE EXCAVATED FROM AREA 4c:
174,500 m3 (loose)
157,100 m3 (solid)
4.9445 ha

5.3405 ha

MATERIAL TO BE EXCAVATED FROM AREA 8:
149,000 m3 (loose)
134,100 m3 (solid)

LUGGATE - CROMWELL ROAD (SH6)

PARK BURN

EXTRACT AND CONVEY" CONSENT RC 070216
SCHEDULED ACTIVITY 25A

AREA 3
20.0752 ha

FILL REQUIRED: 644,800 m3
(solid measure)

157,100 m3 (solid measure) cut to fill from Area 4c to Area 3.

25,200 m3 (solid measure) cut to fill from Area 6 to Area 3.

60,500 m3 (solid measure) cut to fill from Area 7 to Area 3.

134,100 m3 (solid measure) cut to fill from Area 8 to Area 3.

STOCKPILE (CRUSHED PEA GRAVEL)

187,700 m3 (solid measure) cut to fill within Area 3.

80,200 m3 (solid measure) of crushed Pea Gravel to be placed as certified fill.

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value	Colour
-15	to	-14 m	
-14	to	-13 m	
-13	to	-12 m	
-12	to	-11 m	
-11	to	-10 m	
-10	to	-9 m	
-9	to	-8 m	
-8	to	-7 m	
-7	to	-6 m	
-6	to	-5 m	
-5	to	-4 m	
-4	to	-3 m	
-3	to	-2 m	
-2	to	-1 m	
-1	to	0 m	
0	to	1 m	
1	to	2 m	
2	to	3 m	
3	to	4 m	
4	to	5 m	
5	to	6 m	
6	to	7 m	
7	to	8 m	
8	to	9 m	
9	to	10 m	
10	to	11 m	
11	to	12 m	
12	to	13 m	
13	to	14 m	
14	to	15 m	

FILL

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BULK EARTHWORKS STAGING - AREA 3 - CUT TO FILL

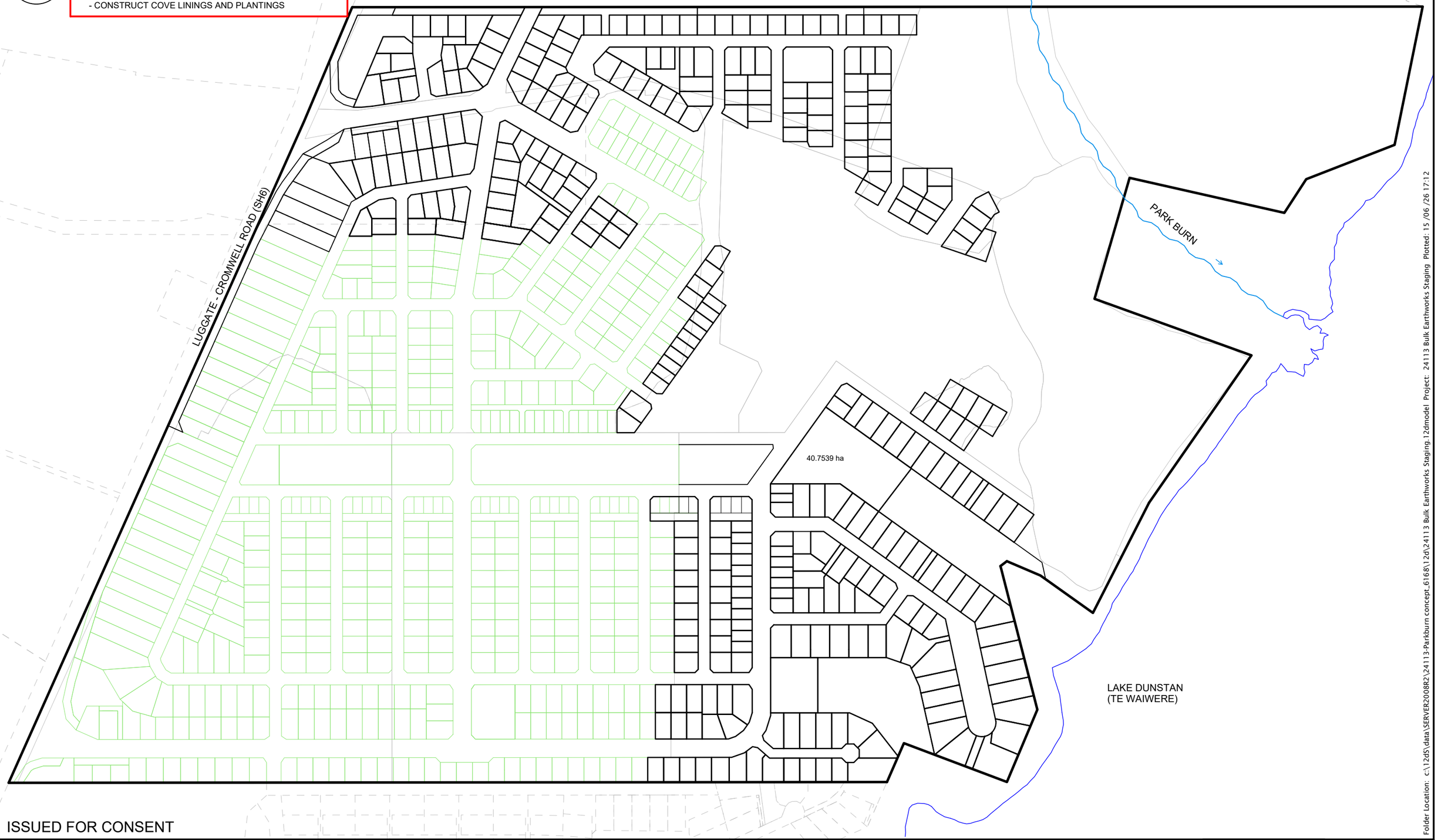
PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_07
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
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8. STABILISE AREA 3 (AND, BY EXTENSION, AREAS 4c, 6, 7 & 8)
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE
- CONSTRUCT COVE LININGS AND PLANTINGS



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BULK EARTHWORKS STAGING - AREA 3 - STABILISATION
PARKBURN DEVELOPMENT PROJECT
922 LUGGATE - CROMWELL ROAD

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Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_08
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9. EXCAVATE OPENINGS BETWEEN THE
COVES AND THE LAKE
- EXTRACT MATERIAL FROM LAKESIDE BUNDS

LUGGATE - CROMWELL ROAD (SH6)

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY 25A

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

ISSUED FOR CONSENT

Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:13

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BULK EARTHWORKS STAGING - EXCAVATE COVES THROUGH TO LAKE

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_09
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

10. CONSTRUCT INTERFACE BETWEEN SITE AND LAKE
- REFER TO CROWN LAND CYCLE TRACK WORKS PLAN 24113_107
- COMPLETE CYCLE TRACK WORKS FROM CH 0 TO CH 880

LUGGATE - CROMWELL ROAD (SH6)

PARK BURN

REFER TO PLAN 24113_107 (CROWN LAND CYCLE TRACK WORKS PLAN)

CH 0
CH 100
CH 200
CH 300
CH 400
CH 500
CH 600
CH 700
CH 800
CH 880

LAKE DUNSTAN (TE WAIWERE)

LEGEND — CUT

-6.5	to	-5.5	m	
-5.5	to	-5	m	
-5	to	-4	m	
-4	to	-3.5	m	
-3.5	to	-3	m	
-3	to	-2.5	m	
-2.5	to	-2	m	
-2	to	-1.5	m	
-1.5	to	-1	m	
-1	to	-0.5	m	
-0.5	to	0.0	m	
0.0	to	0.5	m	
0.5	to	1	m	
1	to	1.5	m	
1.5	to	2	m	
2	to	2.5	m	
2.5	to	3	m	
3	to	3.5	m	
3.5	to	4	m	
4	to	5	m	

FILL

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BULK EARTHWORKS STAGING - LAKESIDE INTERFACE WORKS CH 0-880

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_10
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

11. CUT TO FILL IN AREA 9
- EXTRACT MATERIAL FROM WITHIN AREA 9, PLACE IN AREA 9

AREA 9
(ASPHALT PLANT)
3.5684 ha

FILL REQUIRED: 48,200 m3 (solid measure). CUT TO FILL WITHIN AREA 9

LUGGATE - CROMWELL ROAD (SH6)

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY 25A

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

ISSUED FOR CONSENT

Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:13

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BULK EARTHWORKS STAGING - AREA 9 - CUT TO FILL

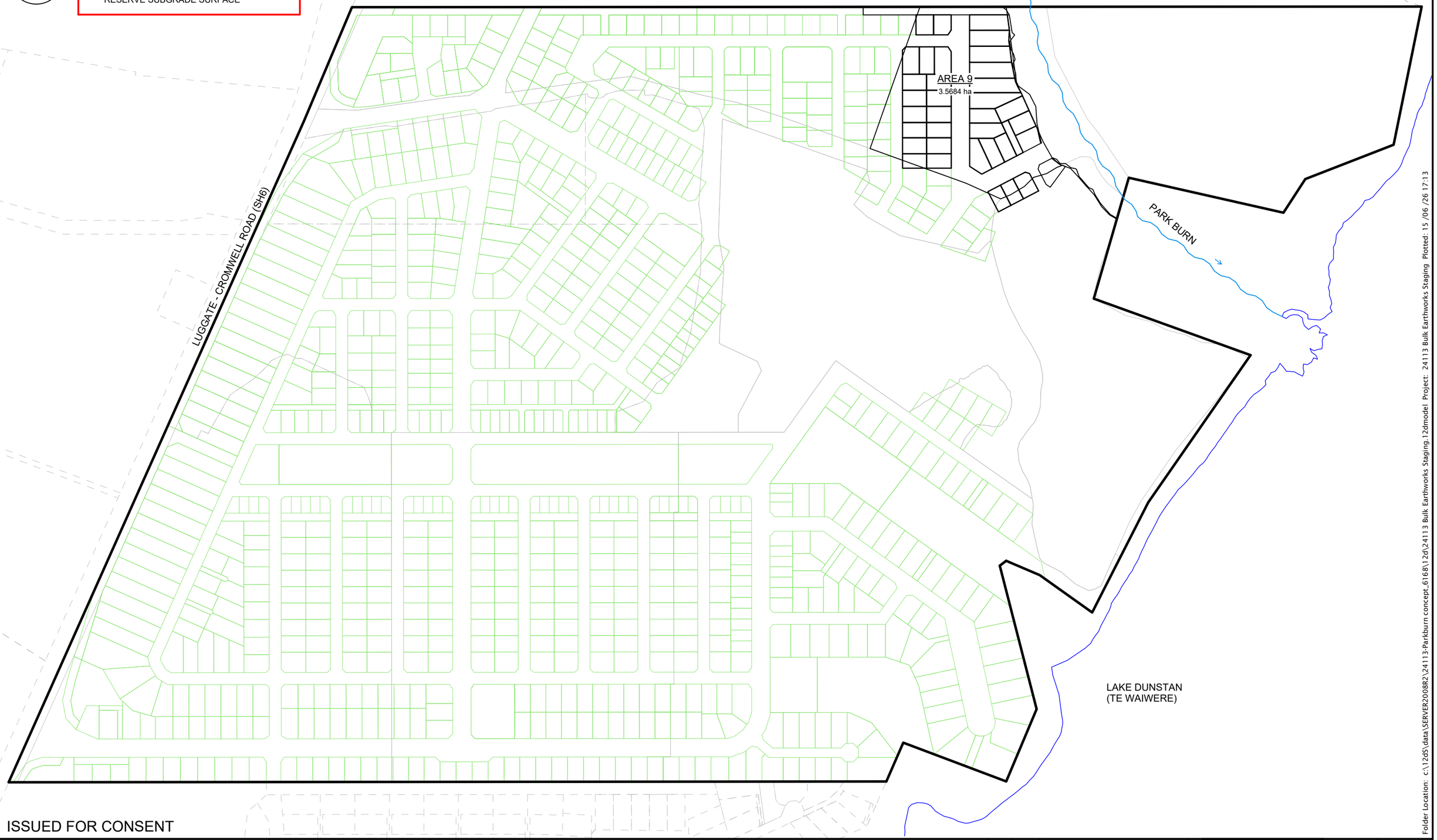
PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_11
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

12. STABILISE AREA 9
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE



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Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:13

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BULK EARTHWORKS STAGING - AREA 9 - STABILISATION

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922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_12
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

13. PEA GRAVEL PROCESSING IN REMEDIATION AREA R2
- EXTRACT, CRUSH, AND STORE PEA GRAVEL IN STOCKPILE WITHIN AREA R2

LUGGATE - CROMWELL ROAD (SH6)

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY 25A

PARK BURN

ALL PEA GRAVEL PROCESSING WORKS TO BE CONTAINED WITHIN LOCATION R2 (EXCAVATE, CRUSH, PLACE)

REMEDIATION AREA R2
8.1851 ha

Pea Gravel
Loose Volume: 620,700 m3
Crushed and Compacted Volume: 496,600 m3

STOCKPILE (CRUSHED PEA GRAVEL)

LAKE DUNSTAN (TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value	Colour
-15	to	-14 m	
-14	to	-13 m	
-13	to	-12 m	
-12	to	-11 m	
-11	to	-10 m	
-10	to	-9 m	
-9	to	-8 m	
-8	to	-7 m	
-7	to	-6 m	
-6	to	-5 m	
-5	to	-4 m	
-4	to	-3 m	
-3	to	-2 m	
-2	to	-1 m	
-1	to	0 m	
0	to	1 m	
1	to	2 m	
2	to	3 m	
3	to	4 m	
4	to	5 m	
5	to	6 m	
6	to	7 m	
7	to	8 m	
8	to	9 m	
9	to	10 m	
10	to	11 m	
11	to	12 m	
12	to	13 m	
13	to	14 m	
14	to	15 m	

FILL

Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:13

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BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R2)

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_13
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

14. CUT TO FILL IN REMEDIATION AREA R2
- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA R2

LUGGATE - CROMWELL ROAD (SH6)

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY' 25A

PARK BURN

REMEDIATION AREA R2
8.1851 ha
448,700 m3 (solid measure) of crushed Pea Gravel from within location R2 to be placed as certified fill.

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:13

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BULK EARTHWORKS STAGING - REMEDIATION AREA R2 - CUT TO FILL

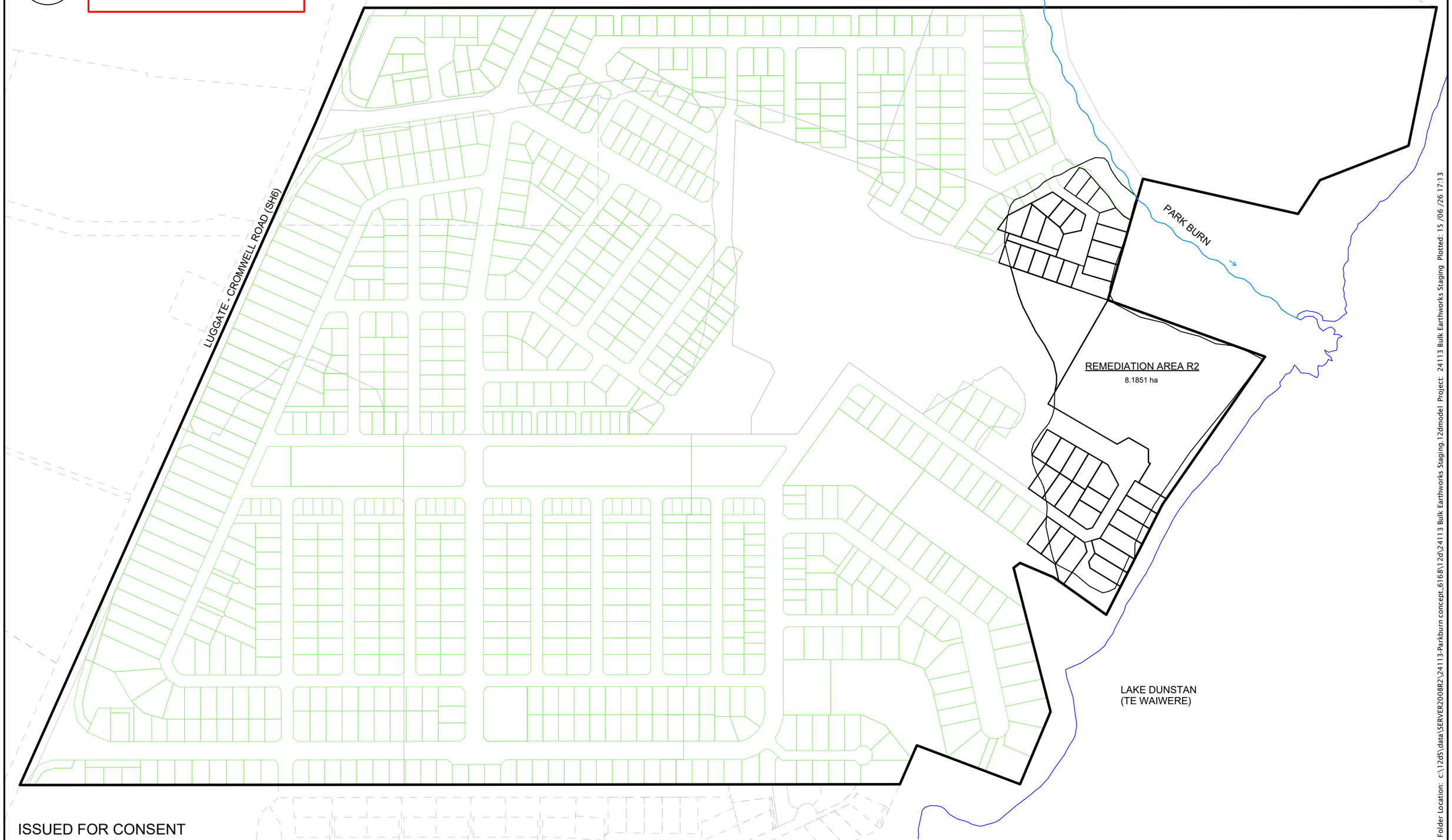
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922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_14
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

15. STABILISE AREA R2
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE



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BULK EARTHWORKS STAGING - REMEDIATION AREA R2 -STABILISATION

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_15
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

16. PEA GRAVEL PROCESSING IN REMEDIATION AREA R1
- EXTRACT, SCREEN, CRUSH, AND STORE PEA GRAVEL IN STOCKPILE WITHIN AREA R1
- DISPOSE OF UNSUITABLE MATERIAL

N

LUGGATE - CROMWELL ROAD (SH6)

'EXTRACT AND CONVEY' CONSENT RC 070216
SCHEDULED ACTIVITY 25A

REMEDIATION AREA R1
9.0082 ha

STOCKPILE (CRUSHED PEA GRAVEL)

ALL PEA GRAVEL PROCESSING WORKS TO BE CONTAINED WITHIN LOCATION R1 (EXCAVATE, CRUSH, PLACE)

Pea Gravel
Loose Volume: 535,800 m3
Crushed and Compacted Volume: 428,700 m3

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

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BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R1)

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_16
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

17. CUT TO FILL IN REMEDIATION AREA R1
- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA R1
- EXTRACT MATERIAL FROM WITHIN AREA R1, PLACE IN AREA R1
- EXTRACT MATERIAL FROM AREA 5, CART AND PLACE IN AREA R1

N

LUGGATE - CROMWELL ROAD (SH6)

EXTRACT AND CONVEY" CONSENT RC 070216
SCHEDULED ACTIVITY 25A

AREA 5
9.7066 ha

REMEDIATION AREA R1
9.0082 ha

FILL REQUIRED: 532,500 m3

428,700 m3 (solid measure) of crushed Pea Gravel from within location R1 to be placed as certified fill.

7,600 m3 (solid measure) cut to fill within Area R1.

46,800 m3 (solid measure) of crushed Pea Gravel from location R2 to be place as certified fill within location R1.

49,400 m3 (solid measure) cut to fill from Area 5 to Area R1.

PARK BURN

LAKE DUNSTAN
(TE WAIWERE)

CUT

Cut/Fill Depths

Lower_value		Upper_value		Colour
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
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0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	
9	to	10	m	
10	to	11	m	
11	to	12	m	
12	to	13	m	
13	to	14	m	
14	to	15	m	

FILL

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BULK EARTHWORKS STAGING - REMEDIATION AREA R1 - CUT TO FILL

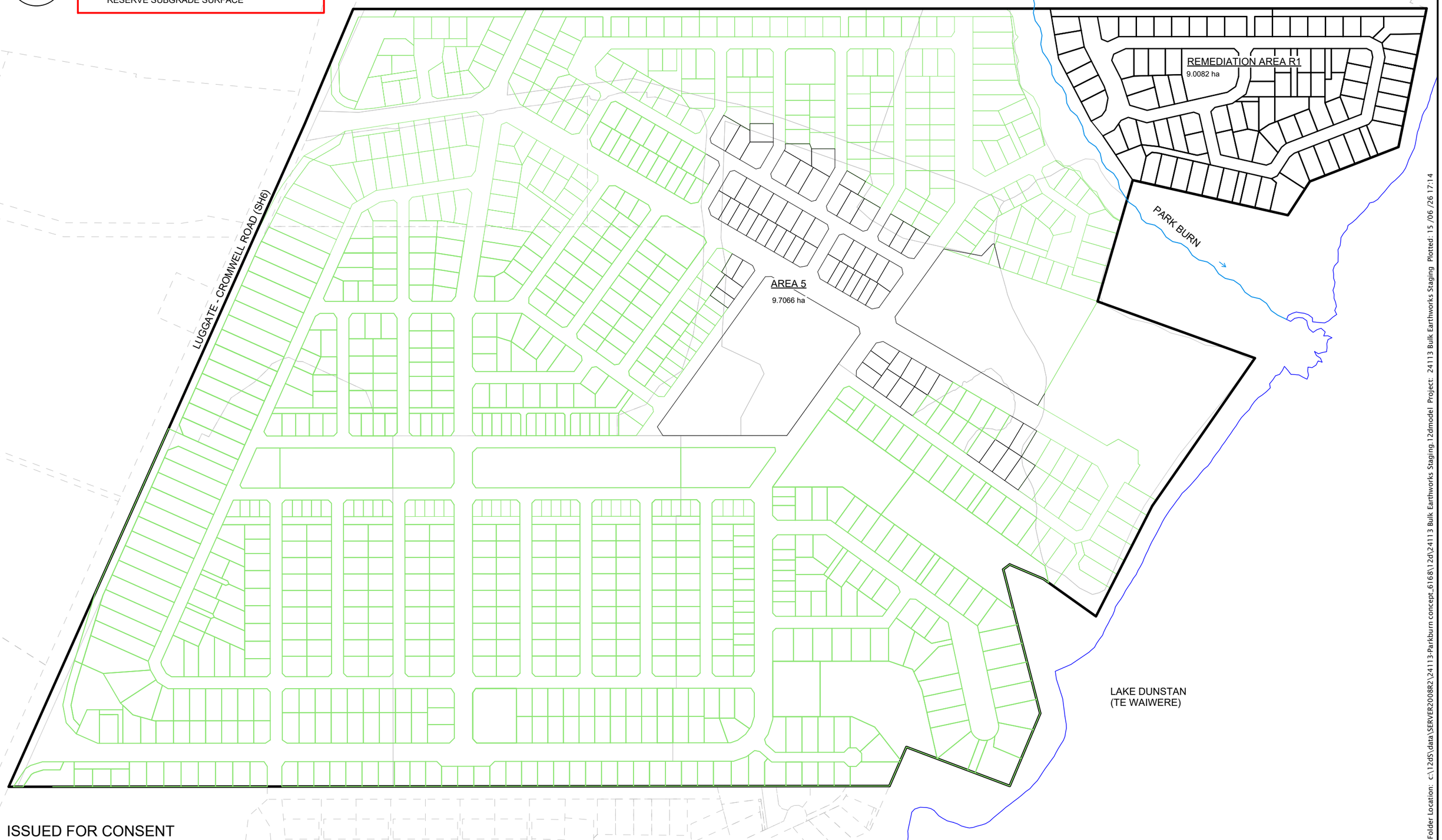
PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_17
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

18. STABILISE AREA R1 (AND, BY EXTENSION, AREA 5)
- TOPSOIL AND SOW GRASS SEED ACROSS LOTS AND RESERVES
- DIRECT-DRILL GRASS SEED INTO ROAD RESERVE SUBGRADE SURFACE



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BULK EARTHWORKS STAGING - REMEDIATION AREA R1 -STABILISATION

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_18
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

19. CONSTRUCT INTERFACE BETWEEN SITE AND LAKE
- REFER TO CROWN LAND CYCLE TRACK WORKS PLAN 24113_107
- COMPLETE CYCLE TRACK WORKS FROM CH 880 TO CH 1830

LUGGATE - CROMWELL ROAD (SH6)

PARK BURN

CH 1800

CH 1700

CH 1600

CH 1500

CH 1400

CH 1300

CH 1200

CH 1100

CH 1000

CH 880

REFER TO PLAN 24113_107
(CROWN LAND CYCLE TRACK WORKS PLAN)

LAKE DUNSTAN
(TE WAIWERE)

LEGEND

CUT				
-6.5	to	-5.5	m	
-5.5	to	-5	m	
-5	to	-4	m	
-4	to	-3.5	m	
-3.5	to	-3	m	
-3	to	-2.5	m	
-2.5	to	-2	m	
-2	to	-1.5	m	
-1.5	to	-1	m	
-1	to	-0.5	m	
-0.5	to	0.0	m	
0.0	to	0.5	m	
0.5	to	1	m	
1	to	1.5	m	
1.5	to	2	m	
2	to	2.5	m	
2.5	to	3	m	
3	to	3.5	m	
3.5	to	4	m	
4	to	5	m	FILL

Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15/06/26 17:14

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BULK EARTHWORKS STAGING - LAKESIDE WORKS CH 880-1830

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By

Designed: KA	Date: 04 2026	Job No.: 24113	Drawing No.: 113_19
Drawn: KA	Date: 05 2026	Scale: 1:4500 @ A3	
Checked: NKA	Date: 06 2026	Datum & Level: LP2000 & NZVD16	Rev.: -

Appendix B: Environmental site induction and emergency contacts

Emergency contact list

The below table provides a non-exhaustive list of contacts that may be appropriate to inform/involve in the event of an environmental incident or emergency. The Environmental Representative should always be contacted and consulted prior to contacting any outside parties regarding an incident.

Print this table and pin it to your site office and smoko room walls for quick reference!

Incident/emergency	Contact	Phone number
Pollution or spill	ORC pollution hotline	0800 800 033
	ORC compliance officer	TBD
	CODC compliance officer	TBD
Fire	Fire and Emergency New Zealand	111
Human remains discovery	New Zealand Police	111
Public utilities issue	CODC	03 440 0056
Contaminated land discovery	Environmental Representative	TBD
Accidental heritage discovery		
Environmental complaint		

Environmental roles and responsibilities

Key personnel relating to onsite environmental management are as follows:

- Project manager:
- Site supervisor:
- Environmental Representative:
- Environmental Consultant: Will Nicolson

It is important to remember that all personnel working on site have a responsibility to ensure the provisions of the Environmental Management Plan (EMP) are enforced. This includes preventing sediment-laden water from leaving site, keeping erosion and sediment controls in good working order, minimising dust, keeping the site clean and tidy, and being familiar with the spill contingency plan outlined in Section 5.8.4 of the EMP.

A copy of the EMP will be available onsite at all times.

Significant environmental locations

Environmentally sensitive areas

The two key environmentally sensitive features are Lake Dunstan/Te Wairere, immediately east of the site, and the Park Burn – a small creek that runs through the northeast part of the site, and drains into the lake. Any earthworks near these water bodies must be undertaken with extreme care, and in exact accordance with the erosion and sediment control plan (ESCP) – see Appendix D of the EMP.

Environmentally sensitive receptors

Neighbouring residents to the south of the project site are at risk of adverse effects from dust, noise and vibration in particular. Also be conscious of motorists using the adjacent state highway, and of users of the cycle trail that is located between the eastern boundary of the property and the lake.

Relevant resource consents

To be updated following grant of consents sought.

Earthworks staging and vegetation clearance

Earthworks staging plans are provided in Appendix A of this EMP, and staging area outlines are shown on the ESCP. This sequencing must be adhered to, in order to avoid increased environmental risk from the works. In order to reduce the potential for stormwater contamination, ground disturbance should always be kept to a minimum.

Changes to the approved earthworks sequencing is to be approved by the Environmental Representative/Site Supervisor (in collaboration with ORC).

While much of the site has already been cleared of vegetation, ground cover vegetation should be maintained as far as practicable – this protects the soil and helps to minimise generation of dirty runoff and dust.

Key EMP measures to be aware of

The following is a brief summary of measures presented in the EMP that all site personnel, including subcontractors, should be aware of:

Environmental issue	Mitigation measures
Erosion, runoff and sedimentation (EMP Section 5.1)	• Ensure the erosion and sediment control plan is implemented at all times. • Report issues with ESC measures (e.g. silt fences, basins, etc) to the Site Supervisor or Environmental Representative immediately. • Avoid working immediately adjacent to drainage

Environmental issue	Mitigation measures
	ditches, swales, inlet pipes and basins. • Report any uncontrolled movement of sediment-laden water away from site to the Site Supervisor immediately. • Keep clean water and dirty water separate, to reduce pressure on water treatment controls. • Stabilise and/or revegetate disturbed ground ASAP. • Make sure stockpiles are covered or dampened to prevent dust issues. • Check ESCs both before and after storm events to ensure they're in good working order.
Dust (EMP Section 5.3)	• Ensure exposed soil is dampened regularly via the water carts or sprinklers. • Keep offsite roads clean and free of silt or dirt. • Ensure stockpiles are securely covered, stabilised or dampened, especially prior to/during high winds • Report any dust issues to the Site Supervisor immediately. • If dust suppression during high winds is difficult, works must cease.
Cultural heritage (EMP Section 5.4)	• In the case of an accidental discovery, stop works in the vicinity and report to the Site Supervisor.
Noise (EMP Section 5.5)	• Noise-producing activities (including larger machinery operation) only to occur between 0730 to 1900 Monday to Friday and 0730 to 1800 on Saturdays.. No work to occur on Sundays and public holidays. • Particularly noisy work should be undertaken towards the middle of the day, during normal business hours.
Fuel and chemicals (EMP Section 5.8)	• Only refuel in designated areas, away from drainage features such as swales, channels and ponds. • No refuelling is to occur within 30 m of the lake or creek.

Environmental issue	Mitigation measures
	• Use drip trays or absorbent mats during refuelling. • Only store chemicals and fuels in designated areas that are bunded to at least 110% of the largest container stored there. • Locate chemical and fuel storage areas away from drainage features. • All onsite staff are to be trained in spill response and are to be familiar with the spill contingency plan provided in Section 5.8.4 of the EMP. • Spill kits are to be clearly identified and readily available onsite. Spill kits should be regularly audited and items replaced after use. • Only designated pits are to be used for concrete washout. Drivers to be made aware of these designated washout locations and appropriate procedures for their use.

Notifying Environmental Incidents

An Environmental Incident is one that causes a significant environmental effect or nuisance offsite or to sensitive receptors like waterways (e.g. a dust complaint from a neighbour, dirty water discharge to the lake).

Environmental Incidents are to be reported immediately to the Site Supervisor/Environmental Representative, who will follow the procedures outlined in Section 4.3 of the EMP. The Environmental Incident form, attached in Appendix C of the EMP, is to be completed and submitted accordingly.

Procedures for managing storm events

The Site Supervisor should regularly monitor the weather forecast and manage onsite works with the forecast in mind. If a storm is approaching, the following procedures will be followed:

- **Wind**: Stop works in advance and secure all loose items that may be prone to being blown away by high winds. Ensure all areas of exposed soil are thoroughly dampened, stabilised or covered to prevent dust generation. After the wind has abated, check that nothing has blown onto adjacent properties or roads.

- **Rain**: Perform a full inspection of erosion and sediment control measures well prior to a rain event. Any issues identified (holes in silt fencing, infiltration basins in need of cleaning out, etc) should be rectified immediately, where practicable to do so. Perform the same inspection after the rain has passed, and rectify issues as needed.

Appendix C: EMP forms

1. Site environmental induction register

2. Environmental Incident Report template

3. Weekly inspection proforma

4. Environmental complaints register

5. EMP non-conformance register

6. Water quality monitoring log

CEMP induction register

Date	Inductee			Inductor		
	Name	Phone #	Signature	Name	Phone #	Signature

ENVIRONMENTAL INCIDENT REPORT FORM

Project address/description: Parkburn Subdivision, Cromwell	**CODC consent no.:** **ORC consent no.:**

Instructions

Complete this form for all environmental incidents that cause contaminants (including sediment) or environmental nuisance to leave the site. Please be succinct, stick to known facts and do not make assumptions.

Incident details

Date and time	Date:	Time:
Description Provide a brief and factual description of what happened during the incident. Include relevant details such as: • The estimated distance to the nearest waterway (including storm water and dry courses) • Estimated distance to the nearest sensitive receiver • The activity being undertaken when the incident occurred Sketches/diagrams/photos may be referenced and appended to this report to aid in the description of the incident		
Location of the incident Include address, landmarks, features, nearest intersection, etc. Maps and plans can be attached to the incident report if appropriate.		
Who identified the incident?	☐Community ☐Contractor ☐Council ☐Other	

What immediate actions or control measures were taken to rectify or contain the incident?

What corrective action will be taken to prevent similar incidents recurring?

Approvals

Name:	**Role/organisation:**
Date:	**Signature:**

Parkburn – Weekly Environmental Inspection

Date:	Inspector:	Weather/general conditions:

Inspection item	**Compliance** (Not applicable, complies, non-compliance)			**Comments** List any observations relating to the item inspected, and any remedial action required	**Timeframe** Remedial action to be completed by date or within certain timeframe
	N/A	**C**	**NC**		
Admin					
Is a hard copy of the EMP available onsite?					
Is a register of environmental records (inductions, inspections, etc) available onsite and up-to-date?					
Erosion and sediment control					
Are controls installed as per the ESCP and in good working order?					
Are IBs, swales, silt fences etc in need of sediment removal?					
Are completed earthworks being stabilised?					
Are stockpiles, storage and refuelling areas ≥30 m from water/drainage features?					

Inspection item	Compliance (Not applicable, complies, non-compliance)			Comments List any observations relating to the item inspected, and any remedial action required	Timeframe Remedial action to be completed by date or within certain timeframe
	N/A	C	NC		
Are stockpiles stabilised and surrounded by silt fencing or similar?					
Is uncontrolled contaminated runoff discharging beyond the site boundary?					
Is mud being tracked onto SH6?					
Water quality					
Is the Water Quality Monitoring Plan being adhered to?					
Has the Dosing System Maintenance Checklist been completed?					
Dust and vibration					
Is there evidence of dust migrating beyond the boundary?					
Have any dust or vibration complaints been received in the 7 days prior?					

Inspection item	Compliance (Not applicable, complies, non-compliance)			Comments List any observations relating to the item inspected, and any remedial action required	Timeframe Remedial action to be completed by date or within certain timeframe
	N/A	C	NC		
Are stockpiles sufficiently stabilised or covered to prevent dust generation?					
Noise & vibration					
Have any noise or vibration complaints been received in the 7 days prior?					
Has monitoring been conducted in response to a complaint?					
Vegetation					
Is ground disturbance limited to those shown in the plans? Has surrounding vegetation been retained?					
Chemicals and fuel					
Are designated refuelling areas at least 30 m from IBs, swales, and water bodies?					
Is suitable onsite chemical storage provided?					
Are spill kits well maintained and in suitable locations?					

Inspection item	**Compliance** (Not applicable, complies, non-compliance)			**Comments** List any observations relating to the item inspected, and any remedial action required	**Timeframe** Remedial action to be completed by date or within certain timeframe
	N/A	**C**	**NC**		
Waste management					
Are sufficient bins provided for onsite waste?					
Is there evidence of uncontained waste/litter onsite?					

Parkburn – Environmental Complaints Register

Complaint No.	Date & time complaint received	Complainant details (Name, address, phone or email)	Complaint details	Investigation and findings	Remedial actions, if applicable?	Date complaint closed

Parkburn – EMP Non-Conformance (NC) Register

NC no.	Date	Source of NC (e.g. inspection, complaint, etc.)	Details of NC	Remedial actions	Remedials undertaken by?	Close-out date

Parkburn – Water Quality Monitoring Log

Date:	Person:	Monitoring trigger:

	Location 1	Location 2	Location 3 (optional)
Location description			
Sampling results			
TSS			
Turbidity			
pH			
Visual monitoring			
Hydrocarbons			
Tannins & paint			
Waste			
Non-compliance and remedial actions?			

Appendix D: Erosion and sediment control plan

N

LEGEND

- CLEAN WATER DIVERSIONS
- EXISTING CLEAN WATER DIVERSIONS
- DIRTY WATER DIVERSIONS
- TRAFFICABLE CONTOUR BUND
- HAUL ROAD
- SILT FENCE
- SILT CURTAIN
- INFILTRATION BASIN
- SPILLWAY
- STABILISED CONSTRUCTION ENTRANCE
- GENERALISED OVERLAND FLOW DIRECTION

NOTES

1. THIS PLAN IS TO BE VIEWED AND IMPLEMENTED IN CONJUNCTION WITH THE ASSOCIATED ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR THE PROJECT.
2. ESC LOCATIONS AND/OR ALIGNMENTS ARE INDICATIVE ONLY, WITH EXACT PLACEMENT TO BE CONFIRMED VIA DETAILED DESIGN AND IN COLLABORATION WITH THE SQEP/ENVIRONMENTAL CONSULTANT.
3. ESCs ARE TO BE INSPECTED DAILY, PRIOR TO AND FOLLOWING RAIN EVENTS. ANY REQUIRED MAINTENANCE SHOULD BE SCHEDULED ASAP.
4. A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED IN RELATION TO LARGER ESCs THAT MIGHT HAVE A RISK OF INSTABILITY OR FAILURE, SUCH AS INFILTRATION BASINS.

LUGGATE - CROMWELL ROAD (SH6)

AREA 1 17.5624 ha

AREA 2 15.3967 ha

AREA 3 20.0752 ha

AREA 4 20.7885 ha

AREA 4a

AREA 4b

AREA 4c

AREA 5 9.7066 ha

AREA 6 2.3921 ha

AREA 7 5.6899 ha

AREA 8 5.3405 ha

AREA 9 3.5684 ha

REMEDIATION AREA R1 9.0082 ha

REMEDIATION AREA R2 8.1800 ha

REFER TO SHEET 114_03 FOR DETAILS OF EROSION AND SEDIMENT CONTROLS

REFER TO SHEET 114_04 FOR DETAILS OF EROSION AND SEDIMENT CONTROLS

REFER TO SHEET 114_05 FOR DETAILS OF EROSION AND SEDIMENT CONTROLS

REFER TO SHEET 114_06 FOR DETAILS OF EROSION AND SEDIMENT CONTROLS

REFER TO SHEET 114_07 FOR DETAILS OF EROSION AND SEDIMENT CONTROLS

CULVERT

CYCLE TRACK

LAKE DUNSTAN (TE WAIRERE)

CWB · Ex. CWB · DWB · TCB

0 100 200 300 400 500

1:5000 Scale Bar

ISSUED FOR CONSENT

Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 25/09/26 10.07

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Client: FH LAND DEVELOPMENT LTD

NOTES
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EROSION AND SEDIMENT CONTROL - OVERVIEW - EXISTING GROUND

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By
A	09 2026	EWK Area Interface linework added	KA

Designed: WN	Date: 04 2026	Job No.: 24113	Drawing No.: 114_01
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Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging.12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 25/09/26 10.07

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EROSION AND SEDIMENT CONTROL - OVERVIEW - DESIGN SURFACE

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By
A	09 2026	EWK Area Interface linework added	KA

Designed: WN	Date: 04 2026	Job No.: 24113	Drawing No.: 114_02
Drawn: KA	Date: 05 2026	Scale: 1:5000 @ A3	
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