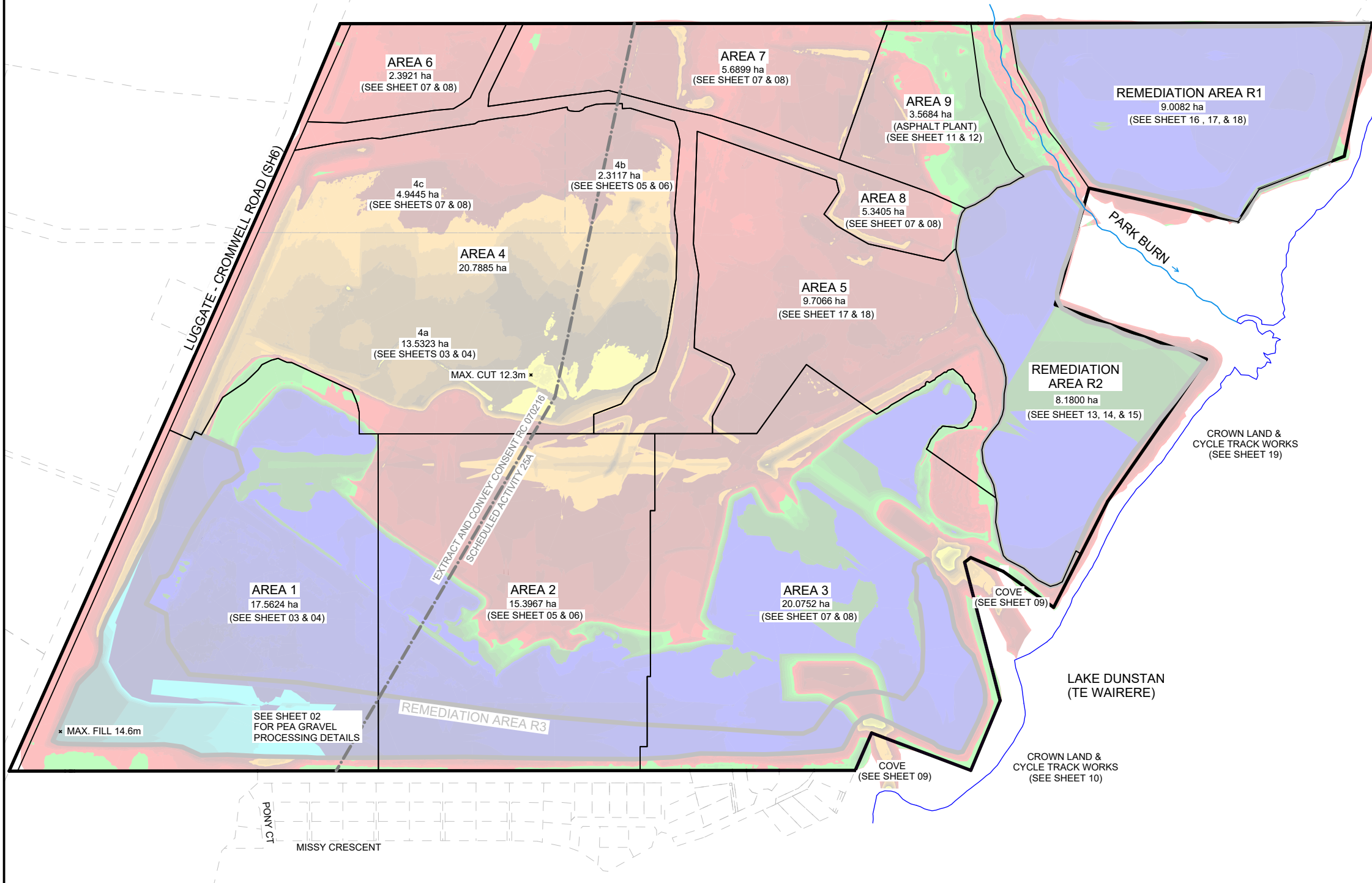


APPENDIX A – Earthworks Drawings



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

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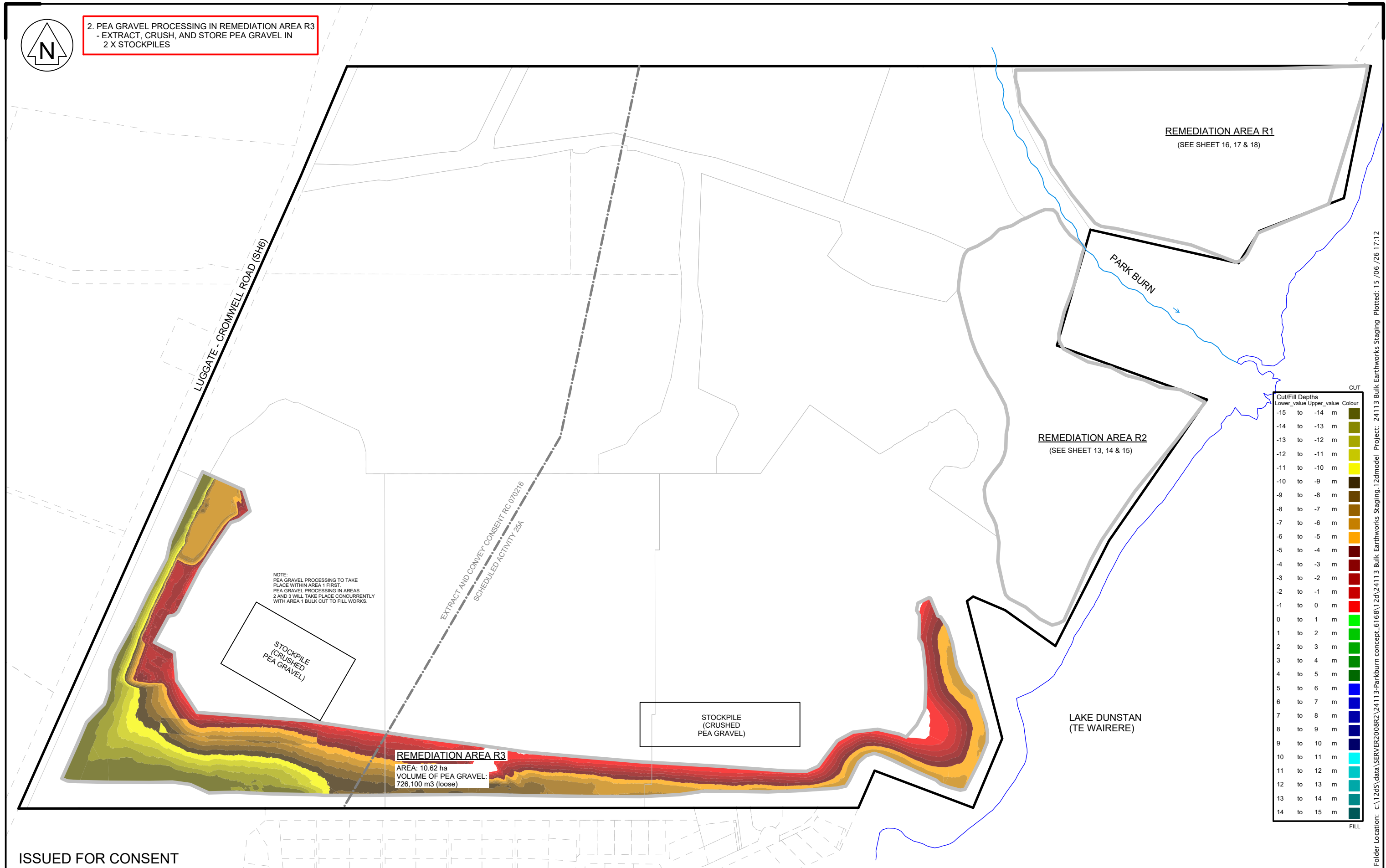
922 LUGGATE - CROMWELL ROAD

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



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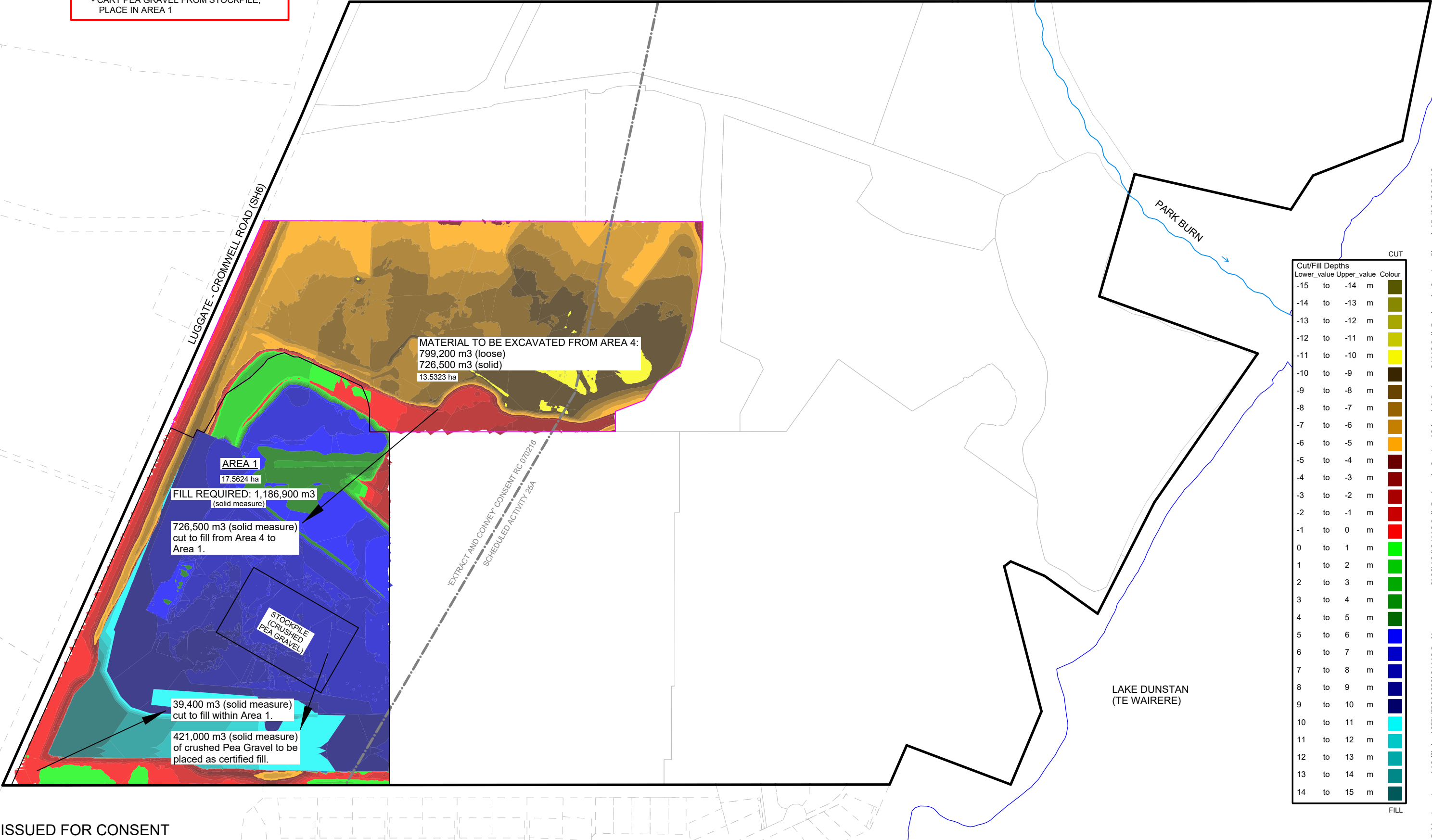
BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R3)
PARKBURN DEVELOPMENT PROJECT
922 LUGGATE - CROMWELL ROAD

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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



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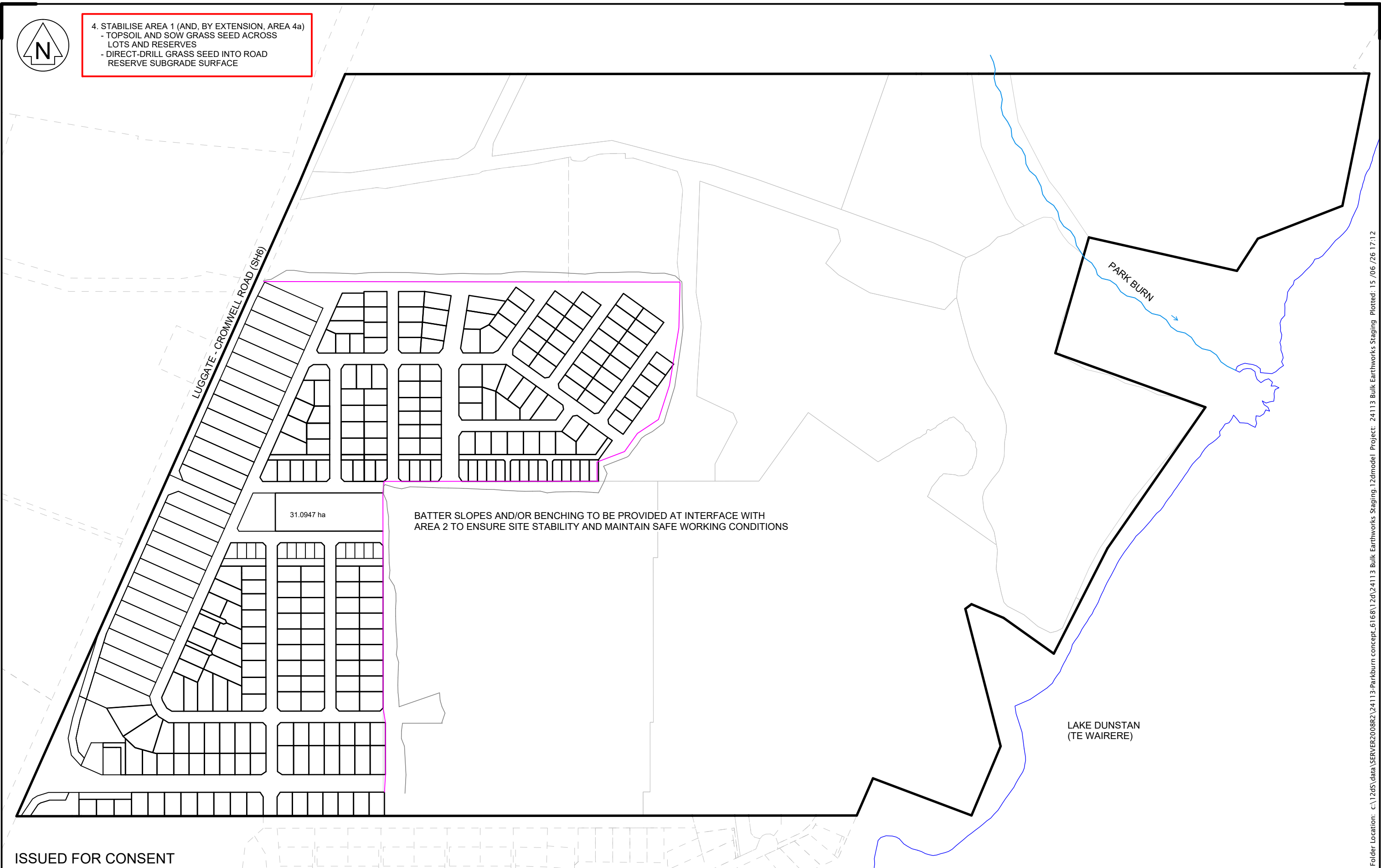
BULK EARTHWORKS STAGING - AREA 1 - CUT TO FILL
PARKBURN DEVELOPMENT PROJECT
922 LUGGATE - CROMWELL ROAD

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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



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BULK EARTHWORKS STAGING - AREA 1 - STABILISATION
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922 LUGGATE - CROMWELL ROAD

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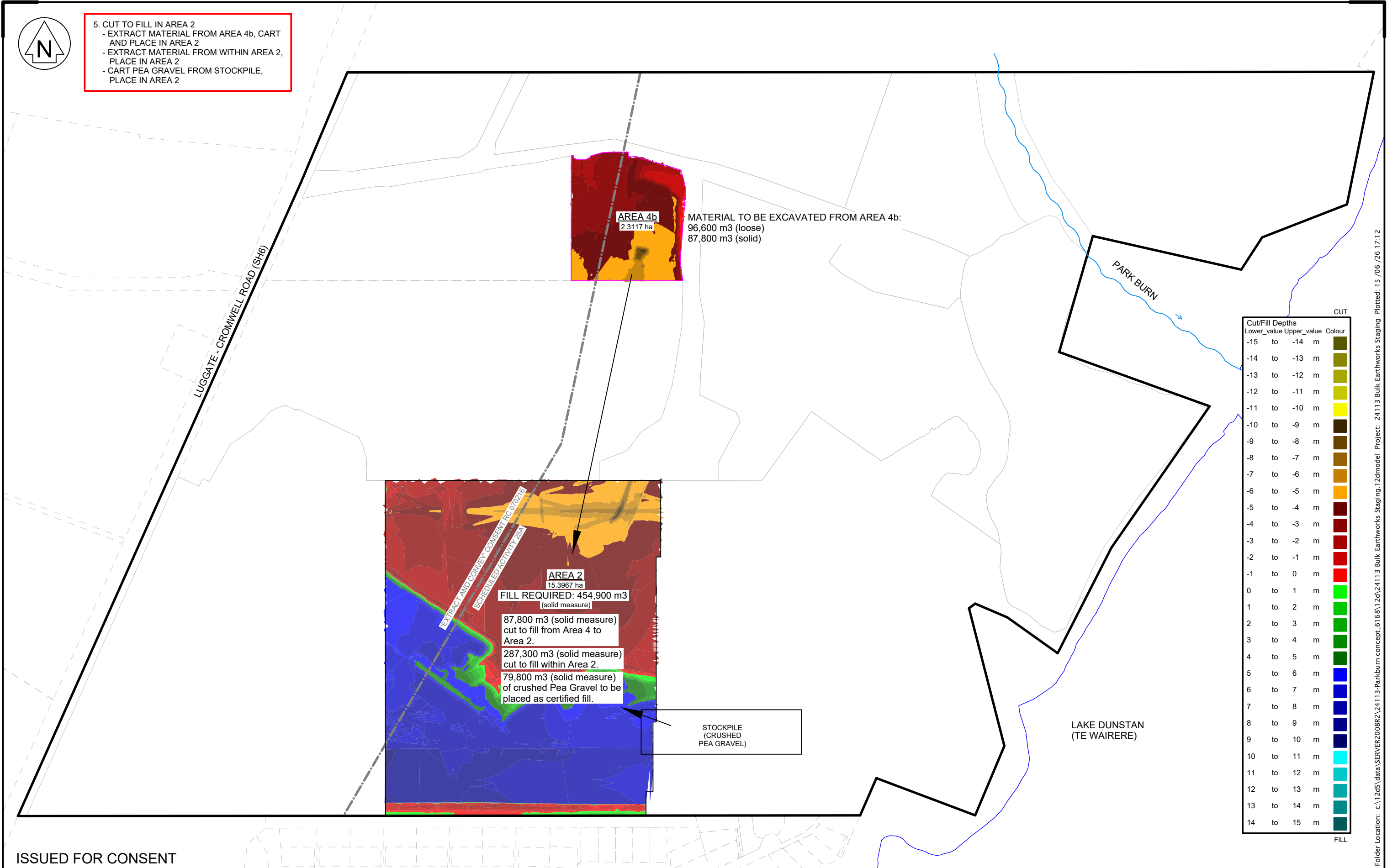
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5. CUT TO FILL IN AREA 2
- EXTRACT MATERIAL FROM AREA 4b, CART AND PLACE IN AREA 2

- EXTRACT MATERIAL FROM WITHIN AREA 2, PLACE IN AREA 2

- CART PEA GRAVEL FROM STOCKPILE, PLACE IN AREA 2



Cut/Fill Depths				
Lower_value	Upper_value	Colour		
-15	to -14	m		CUT
-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		FILL
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 2 - CUT TO FILL

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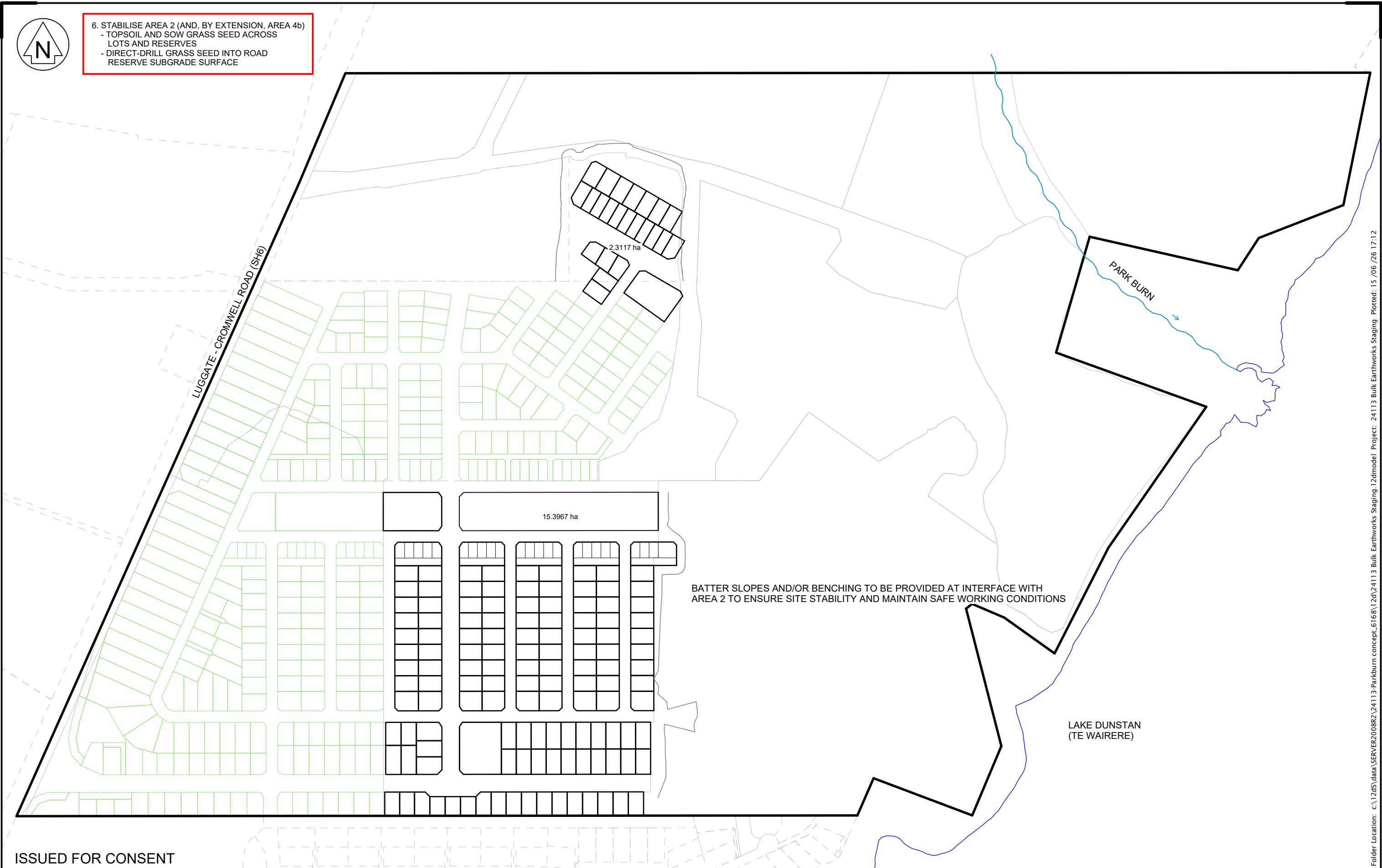
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Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging 12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:12



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



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BULK EARTHWORKS STAGING - AREA 2 - STABILISATION
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922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By	Designed	Date	Job No.	Drawing No.
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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 17:12



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 4c:
174,500 m3 (loose)
157,100 m3 (solid)
4.9445 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 8:
149,000 m3 (loose)
134,100 m3 (solid)
5.3405 ha

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.

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.

STOCKPILE
(CRUSHED
PEA GRAVEL)

LAKE DUNSTAN
(TE WAIRERE)

Cut/Fill Depths			
Lower_value	Upper_value	Colour	
-15	to -14	m	CUT
-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	FILL
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	

EXTRACT AND CONVEY CONSENT RC 070216
SCHEDULED ACTIVITY 25A

LUGGATE - CROMWELL ROAD (SH6)

PARK BURN

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BULK EARTHWORKS STAGING - AREA 3 - CUT TO FILL

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922 LUGGATE - CROMWELL ROAD

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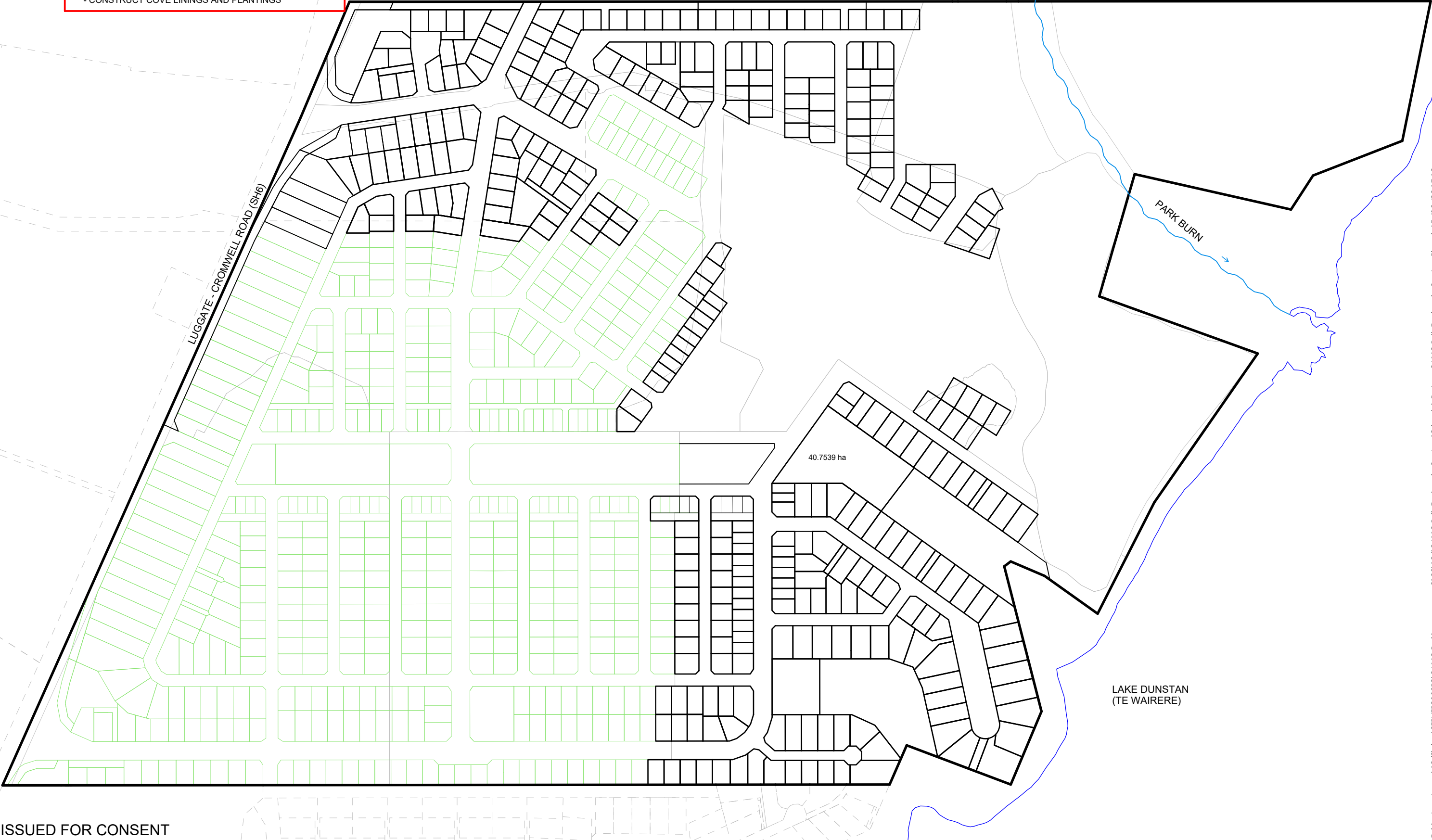
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8. STABILISE AREA 3 (AND, BY EXTENSION, AREAS 4c, 6, 7 & 8)
- TOPSOIL AND SOW GRASS SEED ACROSS
LOTS AND RESERVES

- DIRECT-DRILL GRASS SEED INTO ROAD
RESERVE SUBGRADE SURFACE

- CONSTRUCT COVE LININGS AND PLANTINGS



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BULK EARTHWORKS STAGING - AREA 3 - STABILISATION

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922 LUGGATE - CROMWELL ROAD

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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 17:12



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 WAIRE)

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	

CUT
FILL

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BULK EARTHWORKS STAGING - EXCAVATE COVES THROUGH TO LAKE

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

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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



10. CONSTRUCT INTERFACE BETWEEN
SITE AND LAKE
- REFER TO CROWN LAND CYCLE
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)

LAKE DUNSTAN
(TE WAIRE)

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

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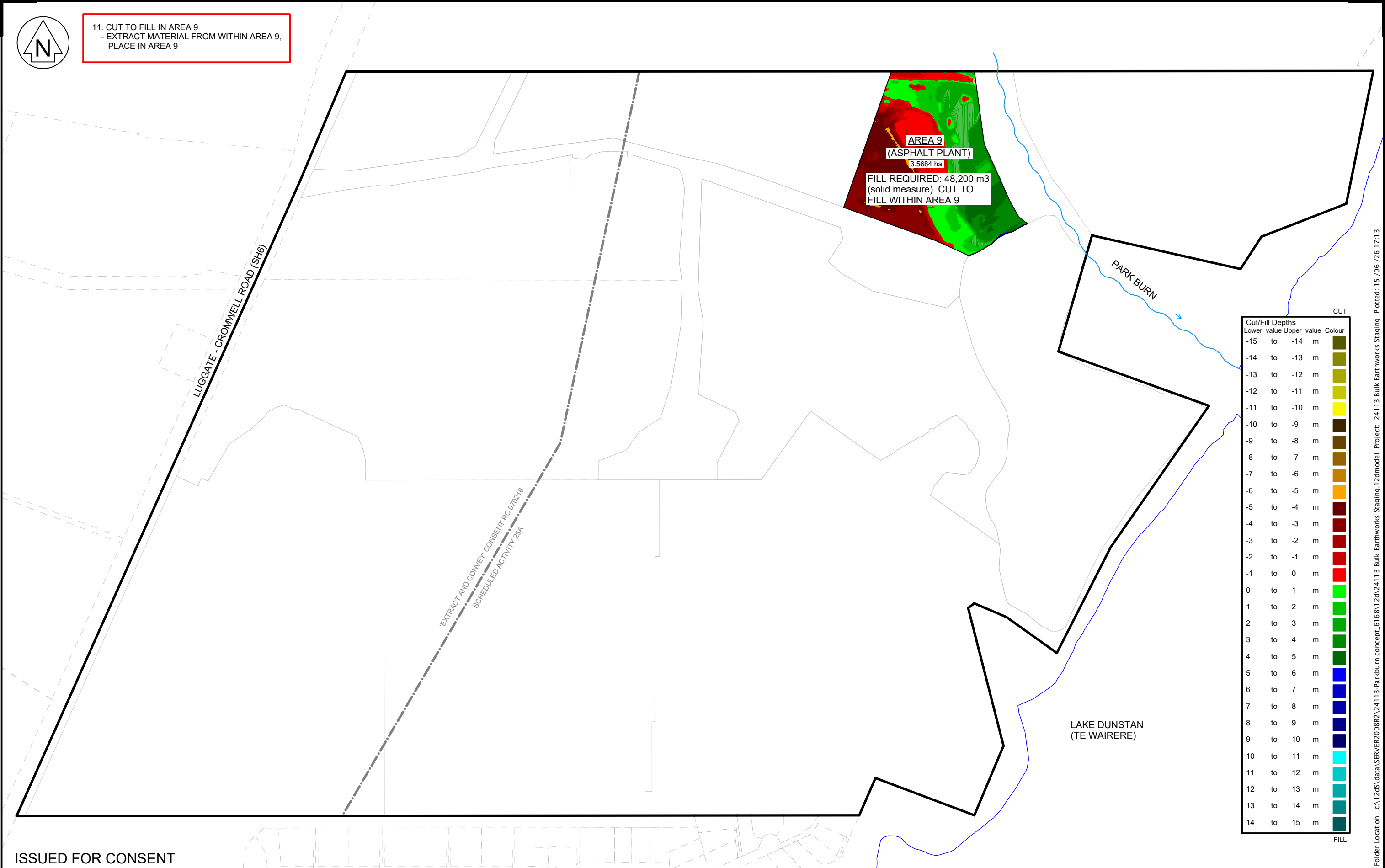
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Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging_12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:13



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



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BULK EARTHWORKS STAGING - AREA 9 - CUT TO FILL
PARKBURN DEVELOPMENT PROJECT
922 LUGGATE - CROMWELL ROAD

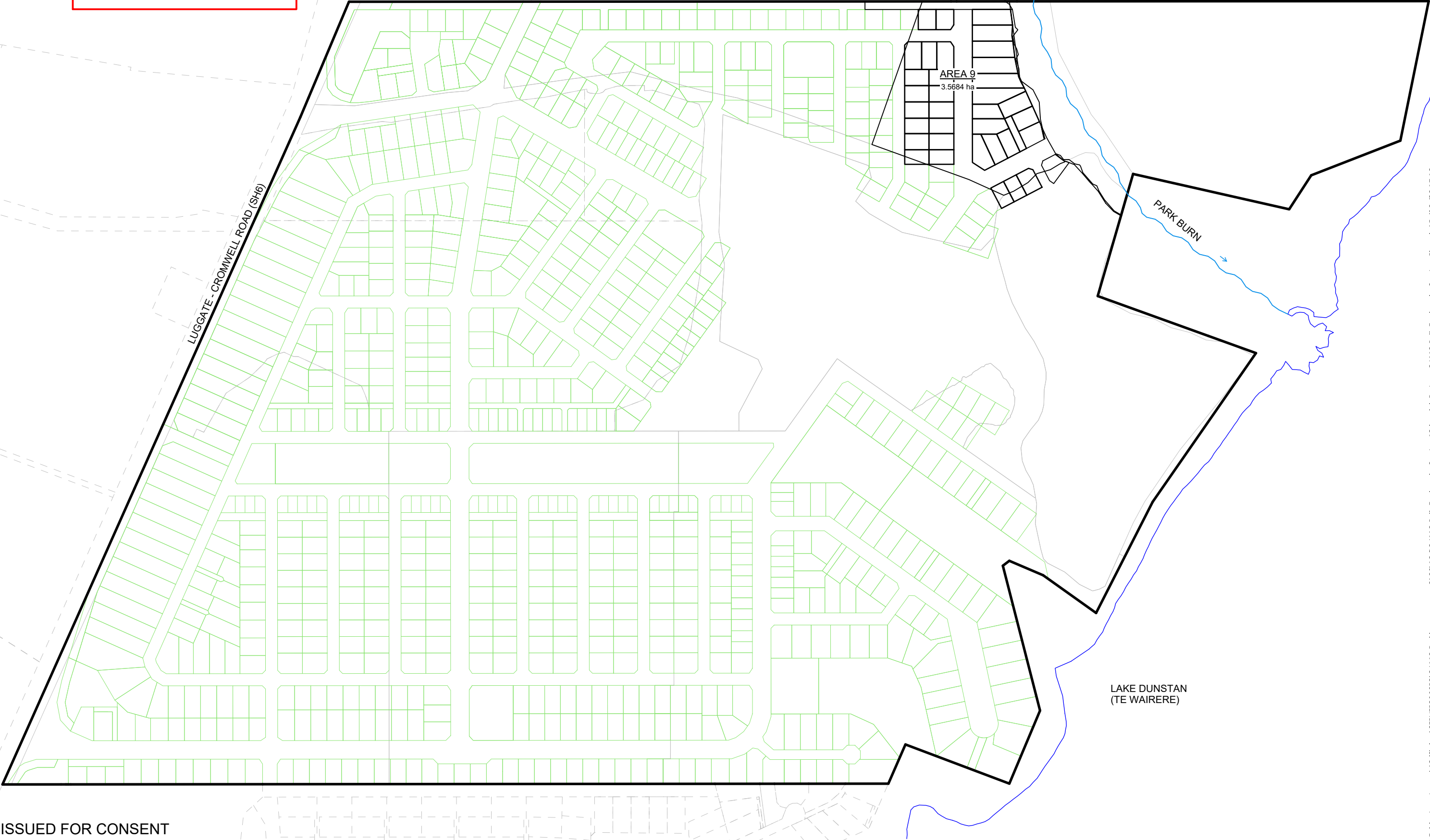
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				NKA	06 2026	LP2000 & NZVD16	-

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



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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BULK EARTHWORKS STAGING - AREA 9 - STABILISATION

PARKBURN DEVELOPMENT PROJECT

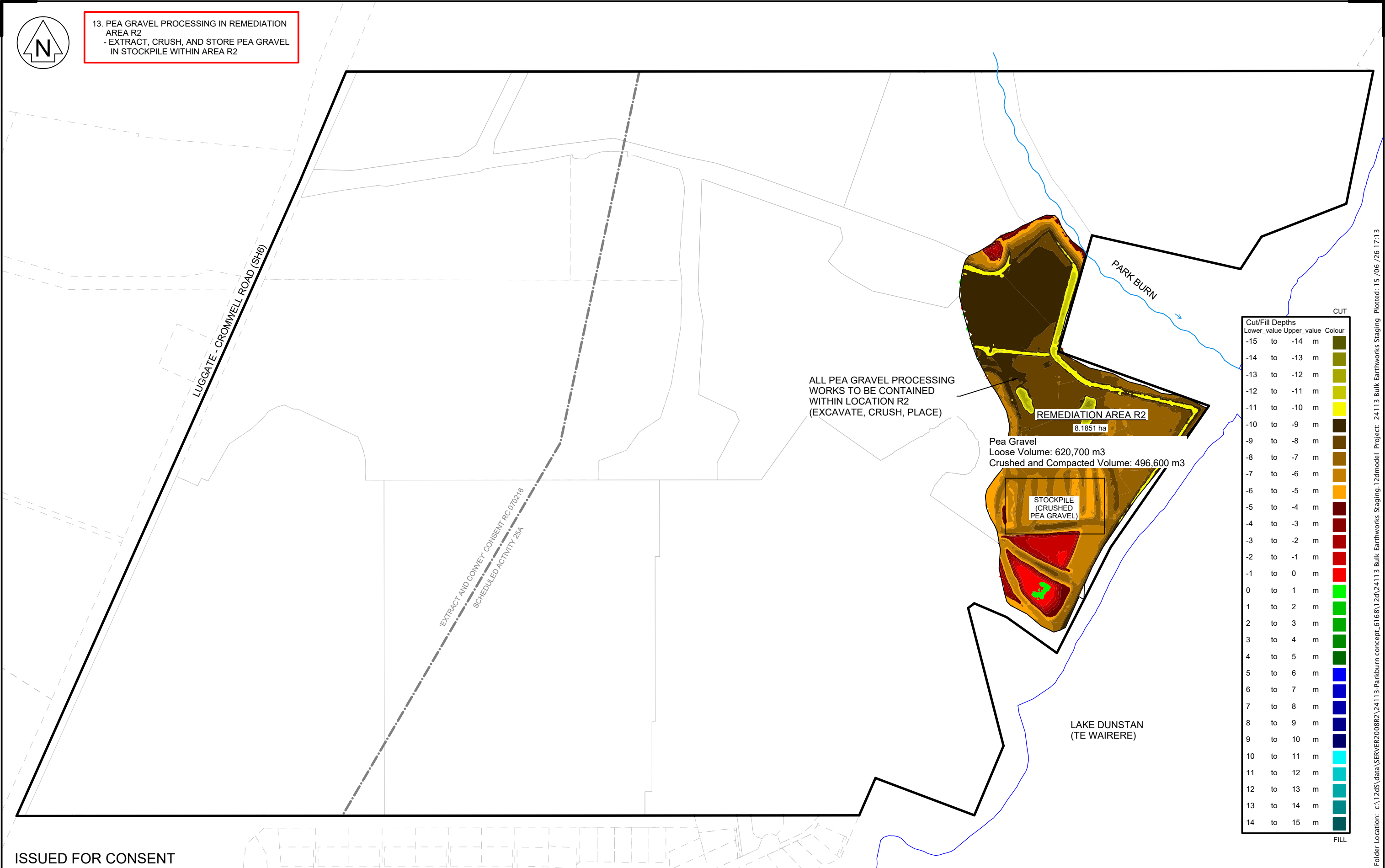
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Folder Location: c:\12d5\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging 12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:13



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



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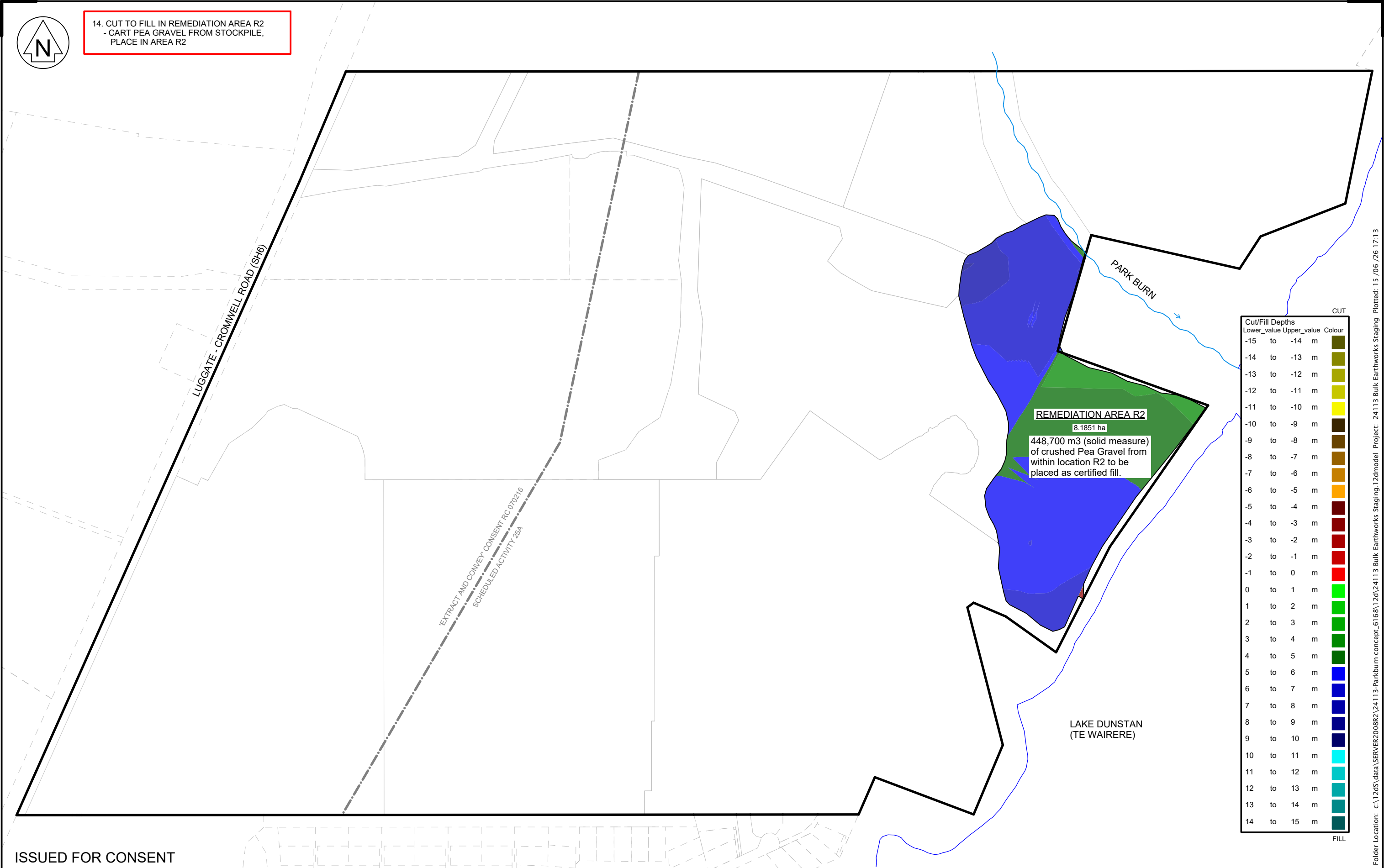
BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R2)
PARKBURN DEVELOPMENT PROJECT
922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By	Designed	Date	Job No.	Drawing No.
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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



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



Cut/Fill Depths				
Lower_value	Upper_value	Colour		
-15	to -14	m		CUT
-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		FILL
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 - REMEDIATION AREA R2 - CUT TO FILL

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

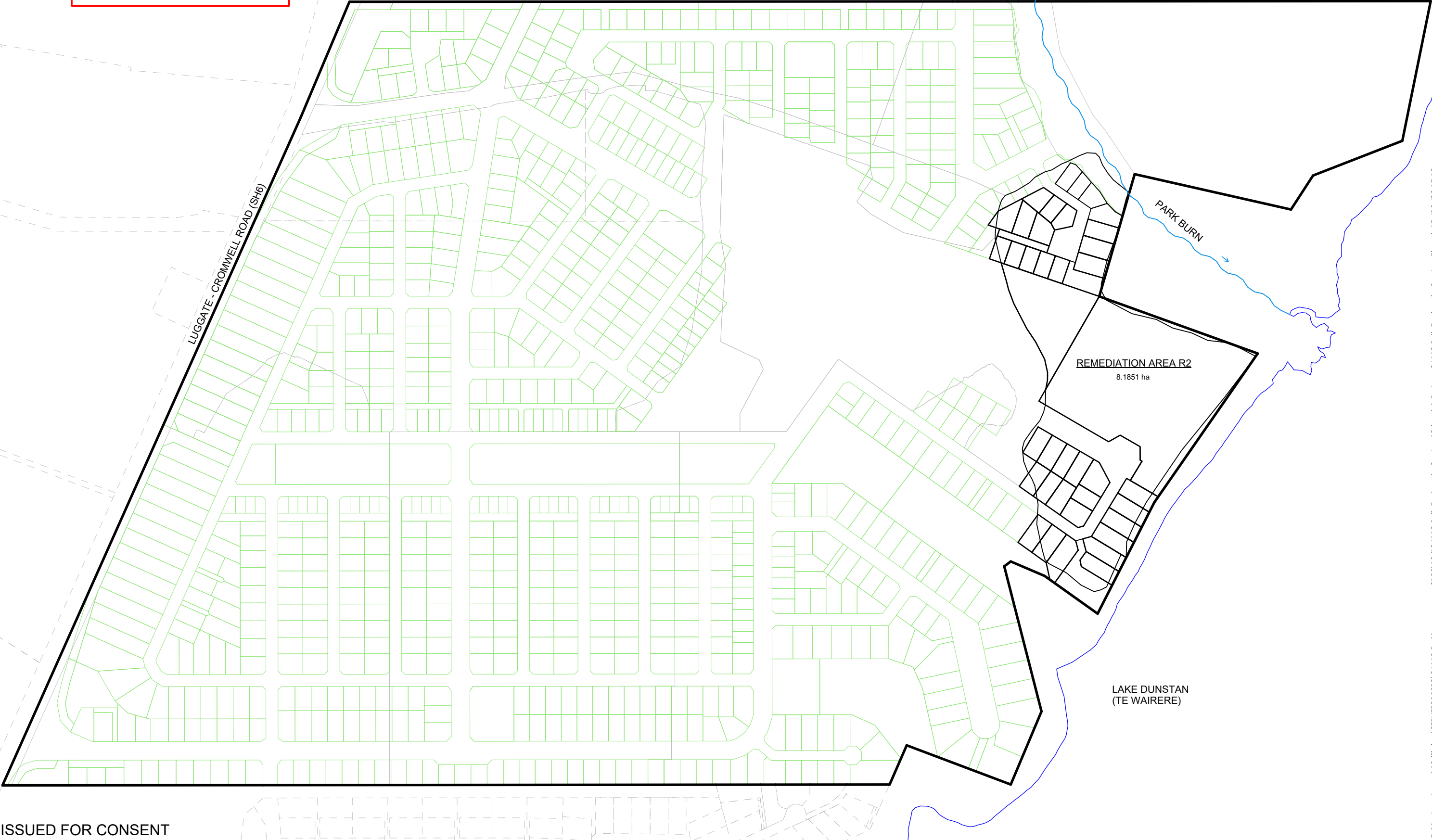
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Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging 12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:13



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

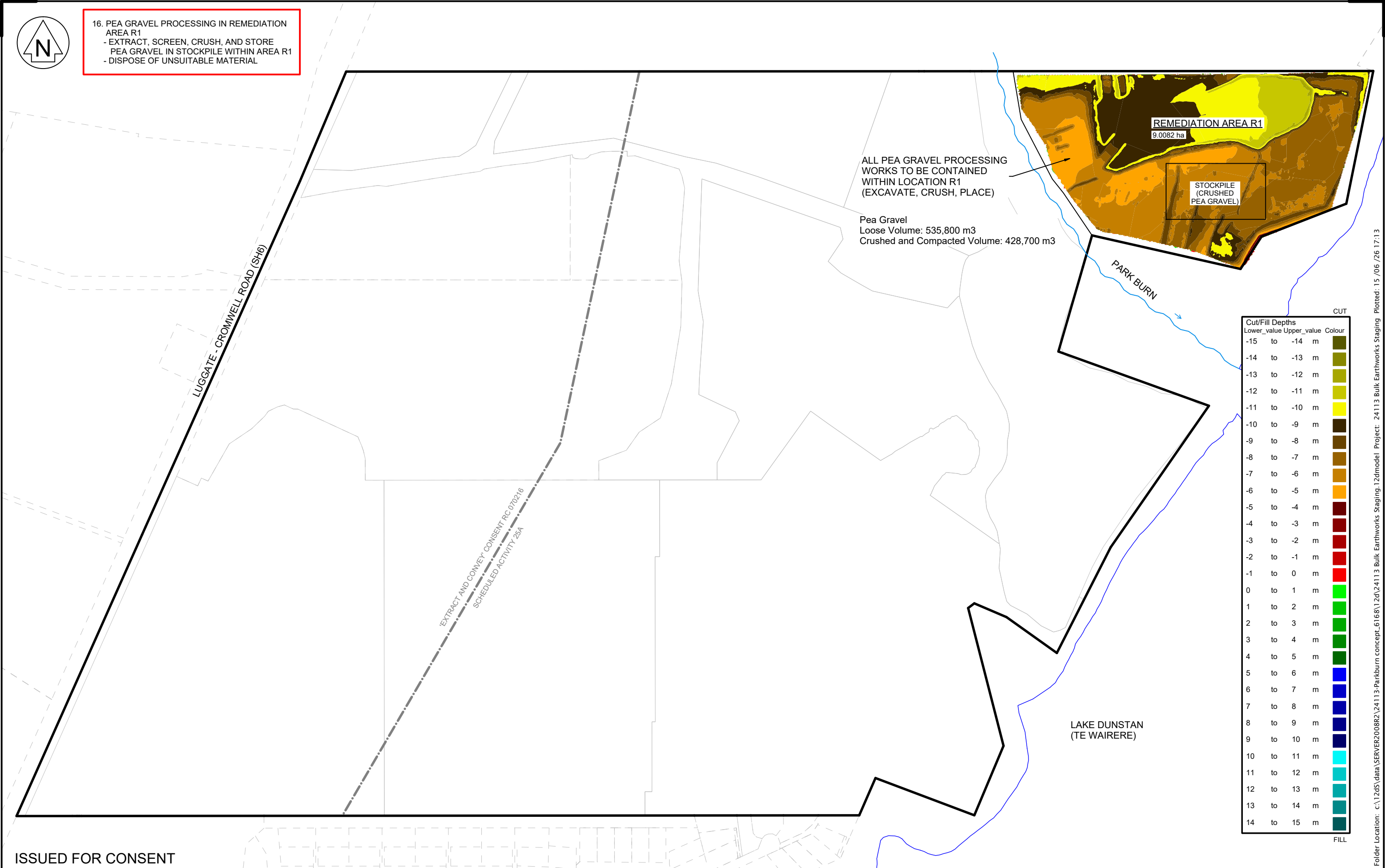
922 LUGGATE - CROMWELL ROAD

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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



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



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BULK EARTHWORKS STAGING - PEA GRAVEL PROCESSING (R1)

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By	Designed	Date	Job No.	Drawing No.
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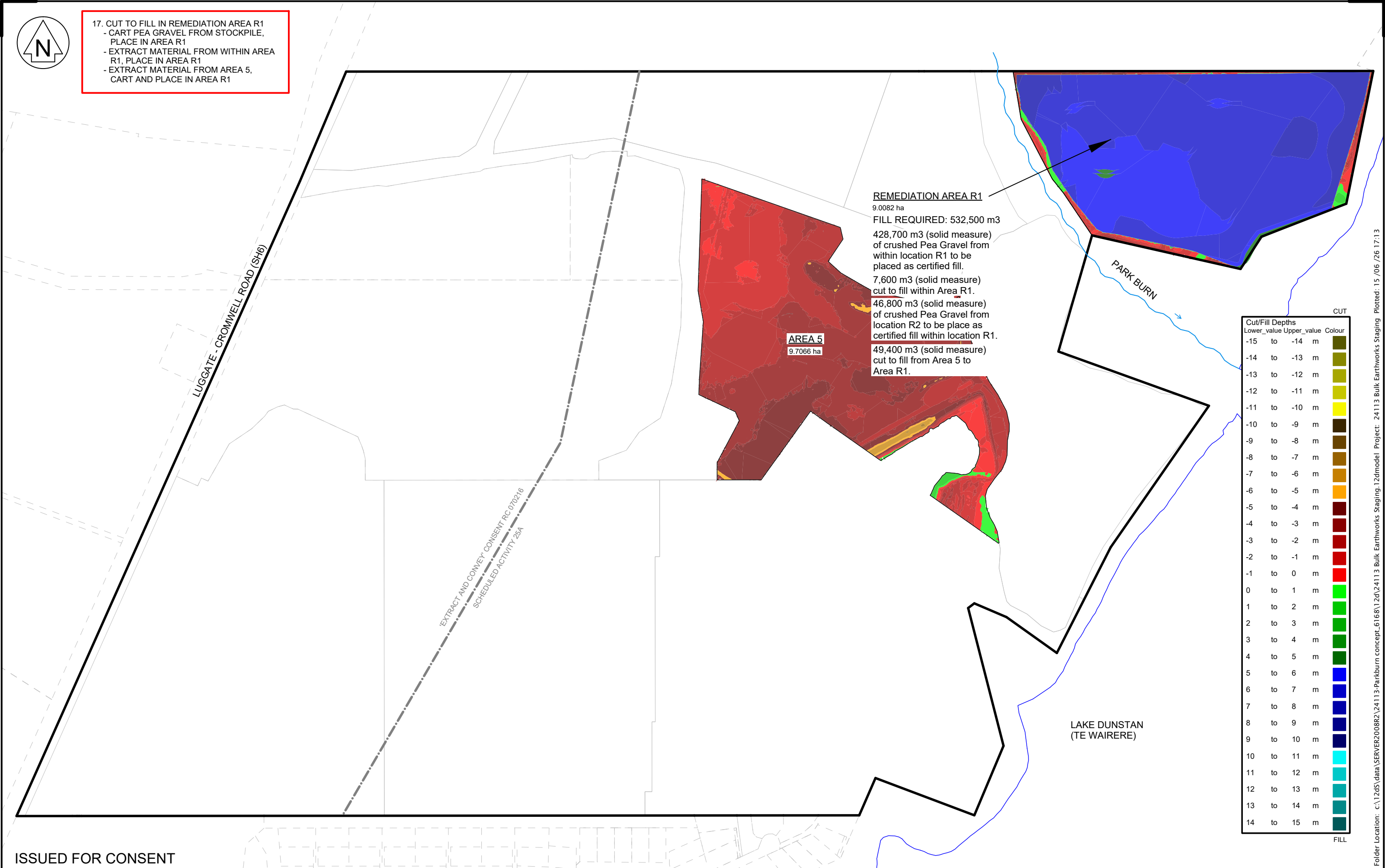
Folder Location: c:\12ds\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging 12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:13



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



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BULK EARTHWORKS STAGING - REMEDIATION AREA R1 - CUT TO FILL

PARKBURN DEVELOPMENT PROJECT

922 LUGGATE - CROMWELL ROAD

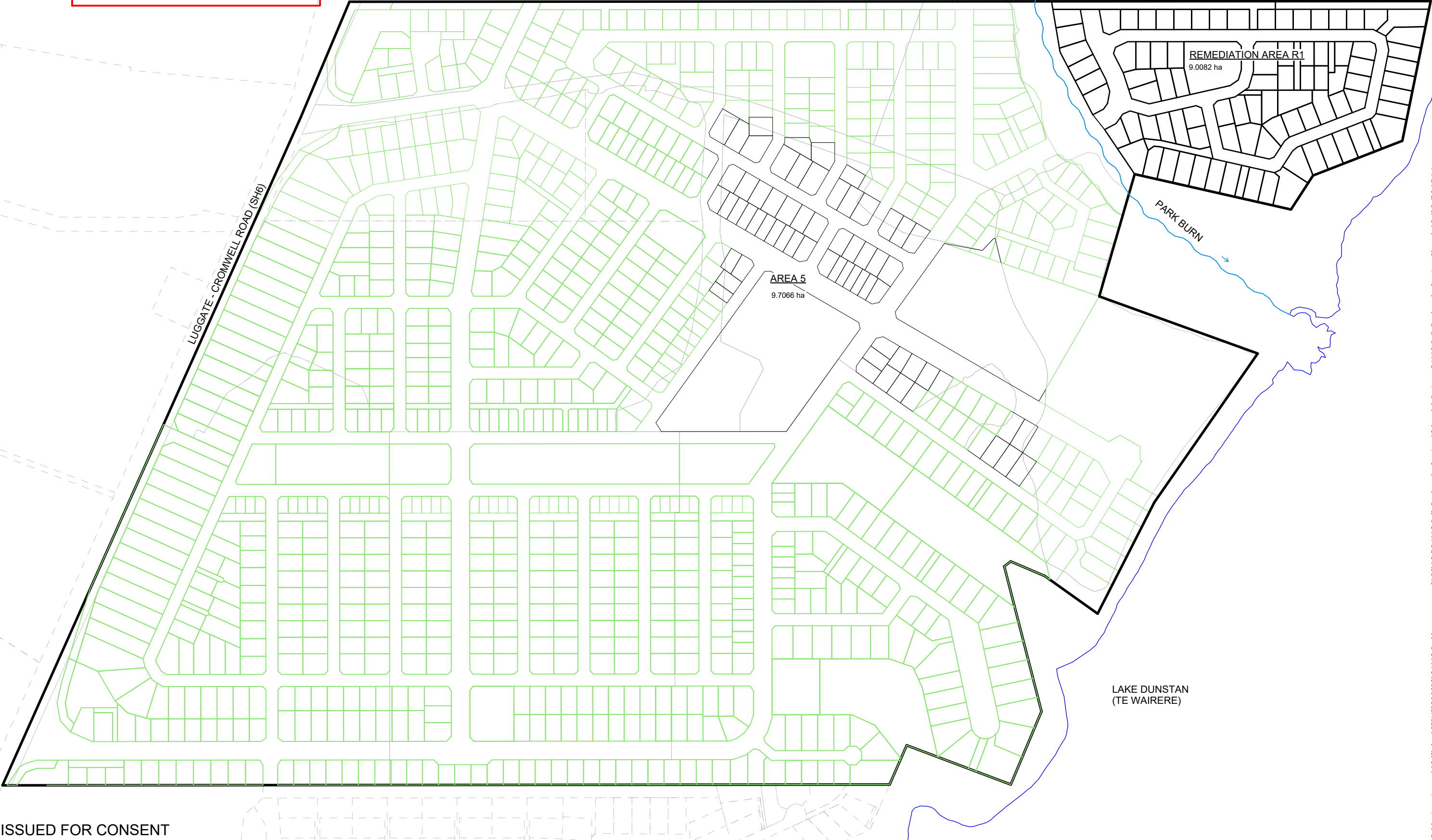
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18. STABILISE AREA R1 (AND, BY EXTENSION, AREA 5)
- TOPSOIL AND SOW GRASS SEED ACROSS
LOTS AND RESERVES

- DIRECT-DRILL GRASS SEED INTO ROAD
RESERVE SUBGRADE SURFACE



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BULK EARTHWORKS STAGING - REMEDIATION AREA R1 -STABILISATION

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922 LUGGATE - CROMWELL ROAD

Rev.	Date	Revision Details	By	Designed	Date	Job No.	Drawing No.
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Folder Location: c:\12d\data\SERVER2008R2\24113-Parkburn concept_6168\12d\24113 Bulk Earthworks Staging_12dmodel Project: 24113 Bulk Earthworks Staging Plotted: 15 /06 /26 17:14



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)

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

LAKE DUNSTAN
(TE WAIRERE)

PARK BURN

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 WORKS CH 880-1830

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922 LUGGATE - CROMWELL ROAD

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