30th May 2016

Core Project Group Pty Ltd

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NSW Builders Lic. No 248583C

BIRDWOOD PARK DEVELOPMENT – 500 King St, Newcastle West, NSW 2302

RE: Waste Management Plan – Demolition, Construction & Use of Premises

Core Project Group have prepared the following waste management and reduction plan in accordance with the requirements of the Development. Council requires on-site sorting and storage of waste products pending reuse or collection.

The applicable sections of this table have been completed the purpose of Development Application submission. This Waste Management Plan (WMP) addressed all elements relating to the erection of a building, demolition the existing building on site and the waste storage requirements of the Development (Aged Care Facility & Independent Living Units.

Assessing this WMP will assist in identifying & understanding the type of waste that will be generated and in inform operators & contractors how to reuse, recycle and/or dispose of the waste.

This revision is for DA assessment; a final review should be undertaken prior to commencement of building works as well as prior to the operation of the development.

Should any further information be required, or clarification is needed with respect to any of the issues detailed herein, please do not hesitate to contact the undersigned on 0477 314 771.

Yours Faithfully

Tom Elliot

Core Project Group

Outline of Waste Management Plan

Site Address: 500 King St, Newcastle West, NSW 2302

Applicant's name and address: RSL LifeCare c/o Core Project Group

Phone: as per CPG cover letter Fax: as per CPG cover letter

Buildings and other structures currently on the site:

Existing building include an industrial shed currently used are car storage (brick walls and metal roof) with asphaltic concrete external carpark

Brief Description of Proposal:

Demolition of existing building & structures & construction of new development. Development includes the construction of a Retired Aged Care Facility (RACF) and the construction of approximately 74 independent living units (ILUs), as well as some ground floor retail and car parking required to satisfy the RACF & ILUs.

The details provided on this form are the intentions for managing waste relating to this project

Applicant: RSL LifeCare c/o Core Project Group

Date: 30/05/16

SECTION ONE – DEMOLITION STAGE

MATERIALS ON SITE		DESTINATION		
		REUSE AND RECYCLING		DISPOSAL
TYPE OF MATERIAL	**ESTIMATED VOLUME (m^3)**	**ON-SITE** *Specify proposed reuse or on-site recycling methods	**OFF-SITE** *Specify contractor and recycling outlet	*Specify contractor and landfill site
Excavation Material	100m3	Cut to fill on site works	Find suitable site if/when applicable	Find suitable site if/when applicable
Green Waste	6m3	Cut to fill on site works	Find suitable site if/when applicable	Find suitable site if/when applicable
Bricks	80m3	No reuse on site (100% recycle)	CPG are principal Contractor - SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com	SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com
Concrete	300m3	No reuse on site (100% recycle)	CPG are principal Contractor - SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com	SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com

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SECTION ONE – DEMOLITION STAGE

MATERIALS ON SITE		DESTINATION		
		REUSE AND RECYCLING		DISPOSAL
TYPE OF MATERIAL	**ESTIMATED VOLUME (m^3)**	**ON-SITE** *Specify proposed reuse or on-site recycling methods *See page 18 for suggestions	**OFF-SITE** *Specify contractor and recycling outlet	*Specify contractor and landfill site
Timber – Please specify:	60m3	100% off site recycle	CPG are principal Contractor to sell timber to timber merchant (Round 2 Timbers or similar)	Round 2 Timbers Unit 33, 54 Clyde Street Hamilton North, Newcastle, NSW 2297
Plasterboard	0m3	No Pbd on site	NA	NA
Metals – Please specify:	40m3	100% off site recycle	CPG are principal Contractor – Hunter Recyclers 8 Gross St, Carrington, NSW 2294	CPG are principal Contractor – Hunter Recyclers 8 Gross St, Carrington, NSW 2294
Other – Please specify:	0m3	NA	NA	NA

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SECTION TWO – CONSTRUCTION STAGE

MATERIALS ON SITE		DESTINATION		
		REUSE AND RECYCLING		DISPOSAL
EXPECTED WASTE MATERIALS	**ESTIMATED VOLUME (m^3)**	**ON-SITE** *Specify proposed reuse or on-site recycling methods *See page 18 for suggestions	**OFF-SITE** *Specify contractor and recycling outlet	*Specify contractor and landfill site
Excavation Material	0m3	Cut to fill on site works (refer to demolition stage)	NA	NA
Green Waste	0m3	Cut to fill on site works (refer to demolition stage)	NA	NA
Bricks	10m3	100% off site recycle	CPG are principal Contractor - SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com	SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com
Concrete	30m3	100% off site recycle	CPG are principal Contractor - SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com	SCE Recycling Onesteel Industrial Estate via Ingall Street, Mayfield, NSW 2304 [T] 02 4949 2800 [M] 0428 781 201 [E] recycling@sce-aust.com

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SECTION TWO – CONSTRUCTION STAGE

MATERIALS ON SITE		DESTINATION		
		REUSE AND RECYCLING		DISPOSAL
EXPECTED WASTE MATERIALS	**ESTIMATED VOLUME (m^3)**	**ON-SITE** *Specify proposed reuse or on-site recycling methods *See page 18 for suggestions	**OFF-SITE** *Specify contractor and recycling outlet	*Specify contractor and landfill site
Timber – Please specify:	25m3	100% off site recycle	CPG are principal Contractor work in with Clean valley (or similar)	Clean Valley 7 Enterprise Drive, Tomago, NSW 2322
Plasterboard	10m3	100% off site recycle	CPG are principal Contractor work in with Clean valley (or similar)	Clean Valley 7 Enterprise Drive, Tomago, NSW 2322
Metals – Please specify:	40m3	100% off site recycle	CPG are principal Contractor – Hunter Recyclers 8 Gross St, Carrington, NSW 2294	Clean Valley 7 Enterprise Drive, Tomago, NSW 2322
Other – Please specify:	0m3	NA	CPG are principal Contractor – Hunter Recyclers 8 Gross St, Carrington, NSW 2294	Clean Valley 7 Enterprise Drive, Tomago, NSW 2322

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SECTION THREE – ON-GOING MANAGEMENT – RACF & CAFÉ/KITCHEN

TYPE OF WASTE TO BE GENERATED	EXPECTED VOLUME PER WEEK	PROPOSED ON-SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Please specify. For example: glass, paper, food waste, offcuts, etc.	*Litres or m^3 *See Appendix A for estimates	For example: *waste storage and recycling area *garbage chute *on-site composting *compaction equipment	*recycling *disposal *specify contractor
Refer to calculations attached.	Refer to calculations attached.	Refer to calculations attached.	Refer to calculations attached.

Note: Details of on-site waste management facilities should be provided on the plan drawings accompanying your application.

SECTION THREE – ON-GOING MANAGEMENT - ILU

TYPE OF WASTE TO BE GENERATED	EXPECTED VOLUME PER WEEK	PROPOSED ON-SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Please specify. For example: glass, paper, food waste, offcuts, etc.	*Litres or m^3 *See Appendix A for estimates	For example: *waste storage and recycling area *garbage chute *on-site composting *compaction equipment	*recycling *disposal *specify contractor
Refer to calculations attached.	Refer to calculations attached.	Refer to calculations attached.	Refer to calculations attached.

Note: Details of on-site waste management facilities should be provided on the plan drawings accompanying your application.

RUBBISH BINS

1. MGB 240L

Superior material quality and workmanship, low dead weight, user friendly: these are the features of the wheeled plastic containers made by OTTO.

Nom. volume (L)	240
Dead weight approx. (kg)	14.3
Useful load (kg)	110
A - Overall height (mm)	1080
B - Overall width (mm)	580
C - Overall depth (mm)	730
D - Upper edge comb (mm)	1000
E - Wheel diameter (mm)	200

2. MGB 4 - 1,100 Lt

The OTTO MGB 4 WHEELER flat lid and round lid models are a dedicated development, numerous improvements to create a smoother design. This means lower operational cost operation and easier handling.

Nom. volume (L)	1100
Dead weight approx. (kg)	50
Useful load (kg)	440
A - Overall height (mm)	1354
B - Overall width (mm)	1373
C - Overall depth (mm)	1073
D - Upper edge comb (mm)	1206
E - Wheel diameter (mm)	200

3. MGB 4 - 660 Lt

The OTTO MGB 4 WHEELER flat lid and round lid models are dedicated development, ir numerous improvements to create a smoother design. This means lower operational cost operation and easier handling.

Nom. volume (L)	660
Dead weight approx. (kg)	41
Useful load (kg)	310
A - Overall height (mm)	1175
B - Overall width (mm)	1310
B1 - Overall width (mm)	1260
C - Overall depth (mm)	775
D - Upper edge comb (mm)	1085
E - Wheel diameter (mm)	200

WASTE CALCULATION

– INDEPENDENT LIVING UNITS (ILUs) – 74 off units

Garbage services to the development will be provided using 240L MGBs. Garbage is transferred from the development to the communal storage area via a chute. The chute discharges waste into a MGB rotating carousel with a compaction ratio of 1:1. Commingled recycling is collected in 1,100L MGBs. Garbage is collected twice per week. Recycling is collected twice per week. The development is not provided with a garden organics service as limited open space and garden areas are limited. A gardening contractor removes from site any garden pruning's that are generated during routine maintenance.

1. Estimate number of garbage bins required
Waste generated = 74 units X 80 L/unit/week = 5,920 L/week
Equivalent compacted volume of waste = 5,920 L/week / 1 (compaction ratio) = 5,920 L/week
Waste generated between collections = 5,920 L/week / 2 collections/week = 2,960 L/collection
Number of garbage bins required = 2,960 L / 1,100 L = 2.7 = 3 bins

2. Estimate number of recycling bins required
Commingled recycling generated = 74 units X 40 L/unit/week = 2,960L/week
Number of recycling bins required = 2,960 L/week / 2 collections/week = 1,480 L/collection
Number of garbage bins required = 1,480 L / 1,100 L = 1.3 = 2 bins

3. Estimate number of organics bins required
Garden organics bins required = 0 (determined by council in this example)

4. Total number of 1,100 bins required
General Garbage Waste 3 x 1,100 LT
Recycling 2 x 1,100 LT
Organics 0
Total 5*
***Note:** this includes an over allowance for bins

– RETIRED & AGED CARE FACILITY (FACF) – 60 Beds including kitchen/cafe

General garbage services to the development will be provided using 240L MGBs. Commingled recycling is collected in 1,100L MGBs. Garbage is collected twice per week. Recycling is collected twice per week. The development is not provided with a garden organics service as limited open space and garden areas are limited. A gardening contractor removes from site any garden pruning's that are generated during routine maintenance.

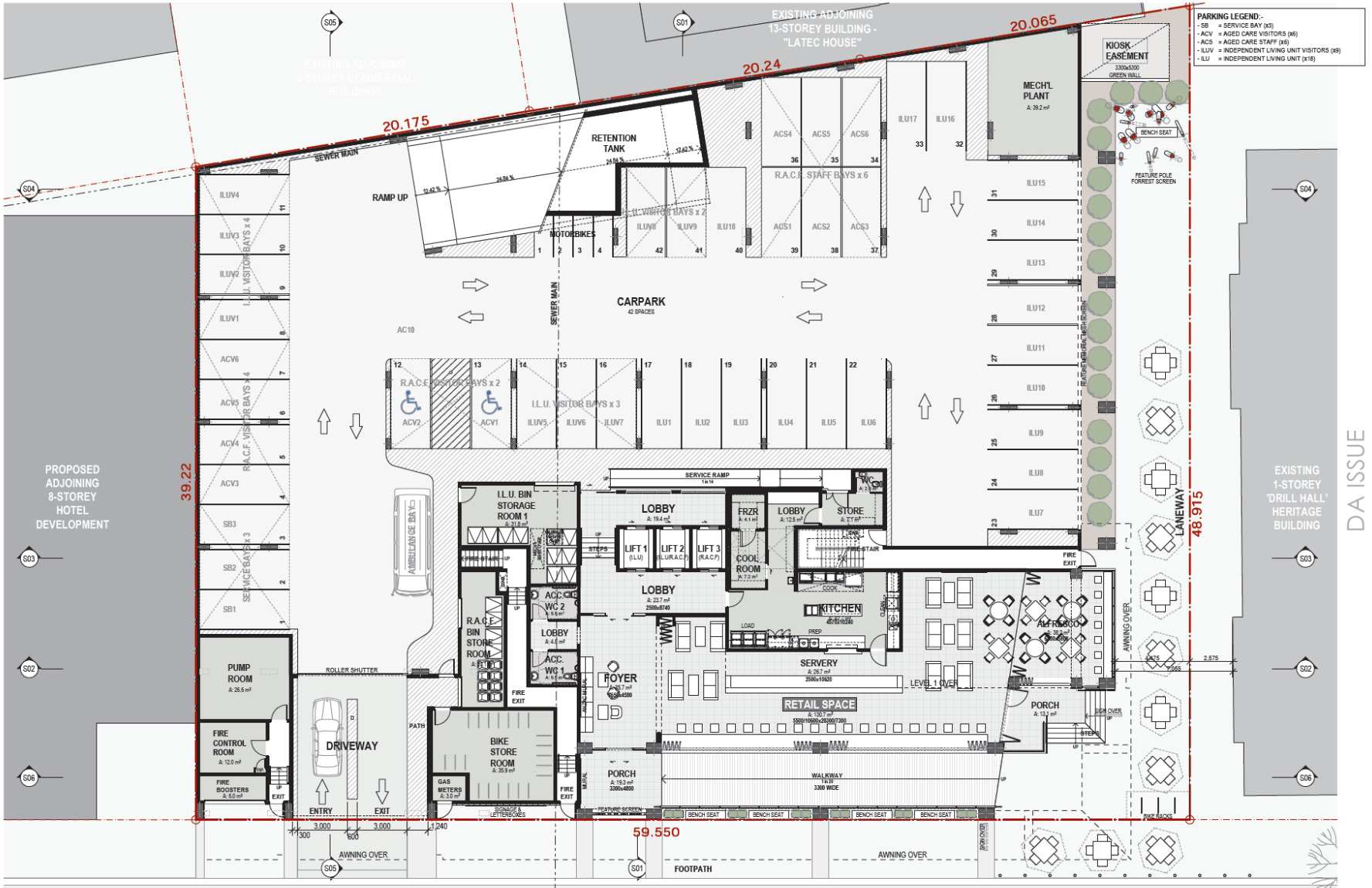
1. Estimate number of garbage bins required
Waste generated = 60 beds (incl Café) X 60 L/unit/week = 3,600 L/week
Equivalent compacted volume of waste = 3,600 L/week / 1 (compaction ratio) = 3,600 L/week
Waste generated between collections = 3,600 L/week / 2 collections/week = 1,800 L/collection
Number of garbage bins required = 1,800 L / 240 L = 7.5

2. Estimate number of recycling bins required
Commingled recycling generated = 60 beds (incl café) X 30 L/unit/week = 2,400L/week
Number of recycling bins required = 2,400 L/week / 2 collections/week = 1,200 L/collection
Number of garbage bins required = 1,200 L / 1,100 L = 1.3 = 1.1 bins

3. Estimate number of organics bins required
Garden organics bins required = 0 (determined by council in this example)

4. Total number of bins required
General Garbage Waste 8 x 240 LT
Recycling 2 x 1,100 LT
Organics 0
Total 20*
***Note:** this includes an over allowance for bins.

REFERNECE DRAWINGS (typical levels only)



DA ISSUE

11014-DA (25-05-2016).pln - 26.05.2016

A45 - p/n.11014 - DA ISSUE rev A - MAY 2016

CoreProject Group Pty Ltd

RSL LifeCare

BIRDWOOD PARK DEVELOPMENT

GROUND LEVEL FLOOR PLAN

SCALE: 1:100@A1 or 1:200@A3

EJE architecture

11014-DA (25-05-2016).pln - 26.05.2016

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RSL LifeCare

BIRDWOOD PARK DEVELOPMENT

"PETER BADCOE VC" R.A.C.F. - LEVEL 2 FLOOR PLAN

SCALE: 1:100@A1 or 1:200@A3

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EJE architecture

DA ISSUE

Building Sustainability Assessments
Certificate Number 0000321900
Accreditation Number VICBDAV/13/1491
Signature Date 26/05/2016

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RSL LifeCare

BIRDWOOD PARK DEVELOPMENT

"LONG TAN" I.L.U. RESIDENCES - LEVELS 5-12 FLOOR PLAN

SCALE: 1:100@A1 or 1:200@A3

N

EJE architecture