

# **DRAWING REGISTER**

DRAWING	NUM	IBER	SHEET NAME	REV. No.	REV. DATE
13531.5	WD L	LP001	indicative site plan	J	13/9/22
13531.5	WD L	LP002	key diagram	J	13/9/22
13531.5	WD L	LP101	detail plans	J	13/9/22
13531.5	WD L	LP102	detail plans	J	13/9/22
13531.5	WD L	LP103	detail plans	J	13/9/22
13531.5	WD L	LP104	detail plans	J	13/9/22
13531.5	WD L	LP201	plant schedule/planting detail	J	13/9/22
13531.5	WD L	LP202	stock fence typical detail	J	13/9/22
13531.5	WD L	LP301	general specification	J	13/9/22
13531.5	WD L	LP302	maintenance specification	J	13/9/22
13531.5	WD L	LP303	maintenance program	J	13/9/22
13531.5	WD L	LP304	conditions	J	13/9/22

# landscaping plan

# WELLINGTON NORTH SOLAR FARM

Lightsource bp Renewable Energy Investments Limited (LSbp)

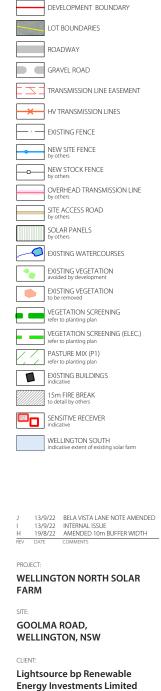
Approximately 8km from Wellington, in NSW



# indicative site plan LP001 WELLINGTON NORTH SOLAR FARM

LEGEND







(LSbp)

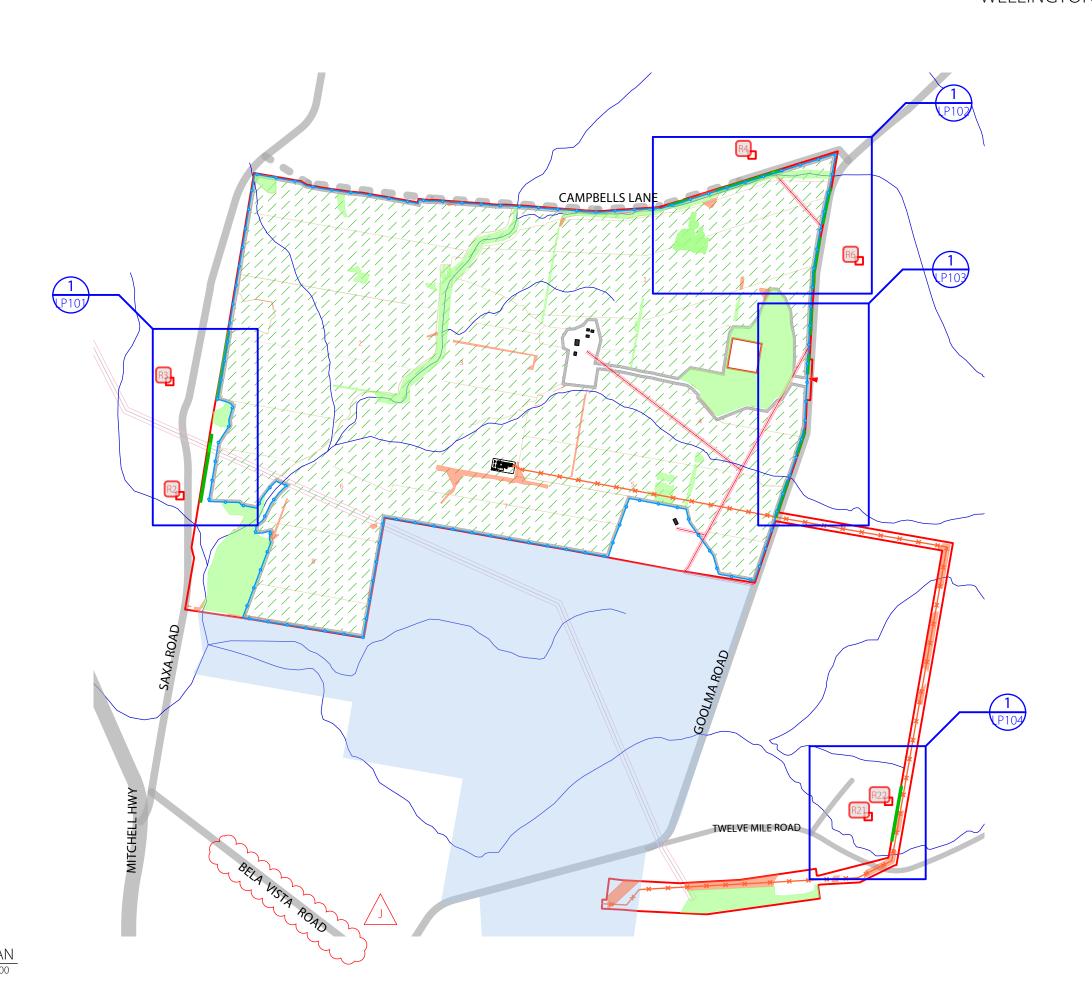


13531.5 WD LP001 J

# key diagram LP002 WELLINGTON NORTH SOLAR FARM

DEVELOPMENT BOUNDARY

LEGEND





WELLINGTON NORTH SOLAR FARM

GOOLMA ROAD, WELLINGTON, NSW

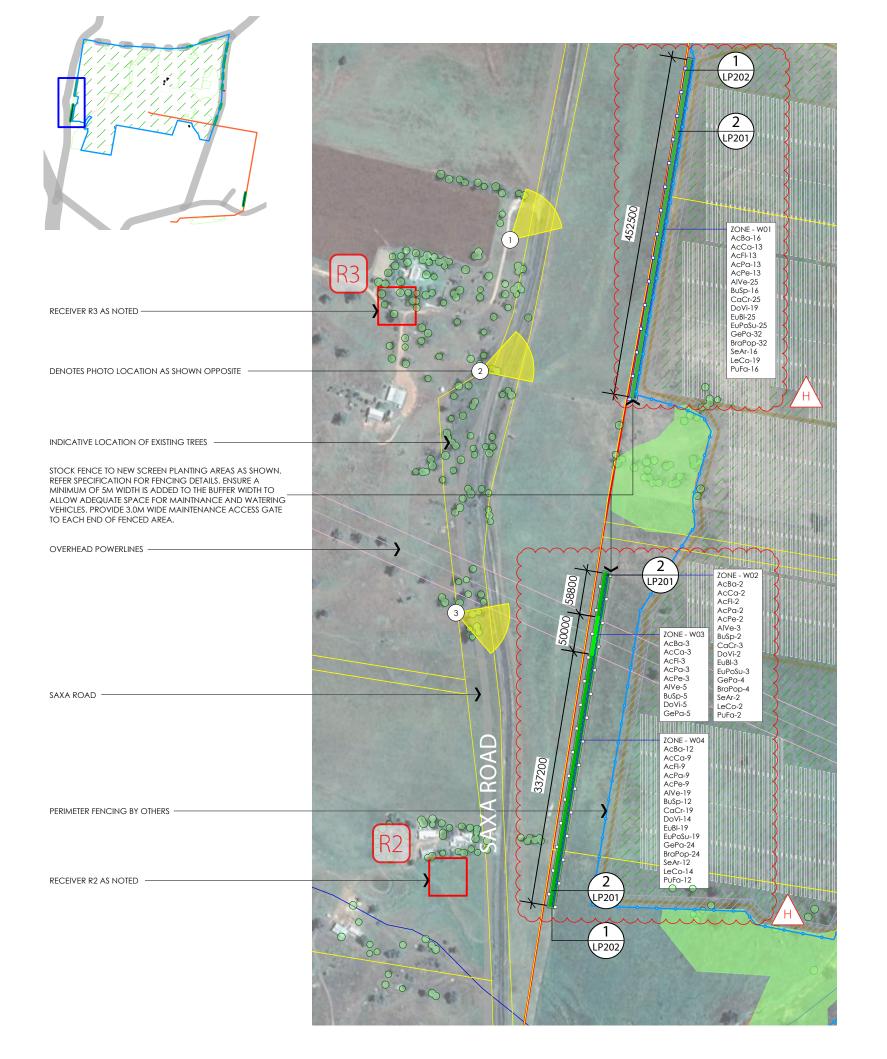
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13531.5 WD LP002 J









# detail plans | LP101

WELLINGTON NORTH SOLAR FARM





DEVELOPMENT BOUNDARY

LOT BOUNDARIES

ROADWAY

GRAVEL ROAD

TRANSMISSION LINE EASEMENT

HV TRANSMISSION LINES

\_\_\_\_ EXISTING FENCE

NEW STOCK FENCE OVERHEAD TRANSMISSION LINE

SITE ACCESS ROAD

SOLAR PANELS by others

EXISTING WATERCOURSES

EXISTING VEGETATION avoided by development

EXISTING VEGETATION

VEGETATION SCREENING

VEGETATION SCREENING (ELEC.)

PASTURE MIX (P1)

EXISTING BUILDINGS indicative

15m FIRE BREAK to detail by others

SENSITIVE RECEIVER indicative

13/9/22 BELA VISTA LANE NOTE AMENDED 13/9/22 INTERNAL ISSUE 19/8/22 AMENDED 10m BUFFER WIDTH

PROJECT:

WELLINGTON NORTH SOLAR FARM

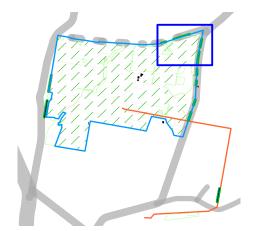
GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable Energy Investments Limited (LSbp)

13531.5 WD LP101 J







# detail plans LP102 WELLINGTON NORTH SOLAR FARM







WELLINGTON NORTH SOLAR FARM

GOOLMA ROAD,

WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)

13531.5 WD LP102 J



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# detail plans LP103 WELLINGTON NORTH SOLAR FARM



DEVELOPMENT BOUNDARY

LOT BOUNDARIES

ROADWAY

GRAVEL ROAD

TRANSMISSION LINE EASEMENT

HV TRANSMISSION LINES EXISTING FENCE

NEW STOCK FENCE by others OVERHEAD TRANSMISSION LINE

SITE ACCESS ROAD by others

SOLAR PANELS by others

EXISTING WATERCOURSES

EXISTING VEGETATION avoided by development

EXISTING VEGETATION VEGETATION SCREENING

VEGETATION SCREENING (ELEC.)

PASTURE MIX (P1)
refer to planting plan

EXISTING BUILDINGS indicative

15m FIRE BREAK to detail by others SENSITIVE RECEIVER indicative

13/9/22 BELA VISTA LANE NOTE AMENDED 13/9/22 INTERNAL ISSUE 19/8/22 AMENDED 10m BUFFER WIDTH

WELLINGTON NORTH SOLAR FARM

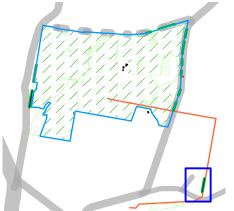
GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)

13531.5 WD LP103 J







# detail plans LP104 WELLINGTON NORTH SOLAR FARM

LEGEND





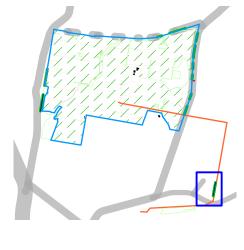
13/9/22 BELA VISTA LANE NOTE AMENDED 13/9/22 INTERNAL ISSUE 19/8/22 AMENDED 10m BUFFER WIDTH

WELLINGTON NORTH SOLAR

GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)

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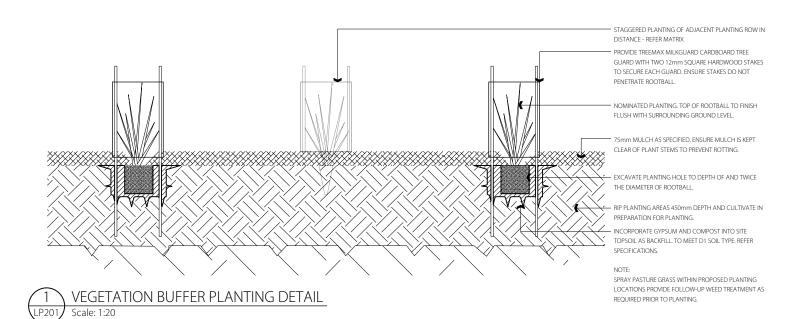




NOTE: The vegetation planned to occur within the transmission line easement considers suitable safe distances to the proposed 330 kV electricity transmission line. Based on current information available from Transgrid, as documented in its 'Living and working with electricity transmission lines' guideline, a maximum vegetation height of 4.3 metres should be maintained within the easement. Suitable plant types and species are documented to achieve this. Suitable and safe maintenance practices which comply with Transgrid's guidance will be implemented by the EPC Contractor.

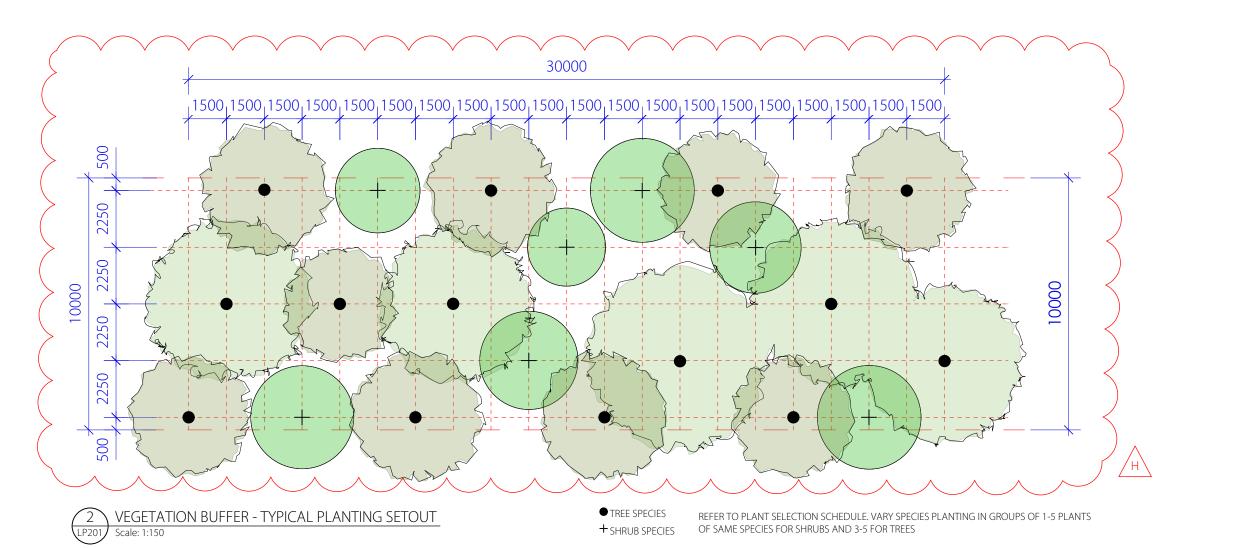
# plant schedule/planting detail | LP201

WELLINGTON NORTH SOLAR FARM



# PLANT SCHEDULE

ID	Qty 4	Botanical Name	Common Name	Scheduled Size
AcBa	117 .	Acacia baileyana	Cootamundra wattle	50mm
AcCa	98 .	Acacia cardiophylla	Wyalong Wattle	50mm
AcFl	98	Acacia floribunda	Gossamer Wattle	50mm
AcPa	98	Acacia paradoxa	Hedge Wattle	50mm
AcPe	98	Acacia pendula	Weeping Myall	50mm
AlVe	194	Allocasuarina verticillata	Drooping She-oak	50mm
BraPop	185	Brachychiton populneus	Kurrajong, Bottle Tree	140mm
BuSp	139	Bursaria spinosa	Blackthorn, Boxthron, Sweet Bursaria	50mm
CaCr	148 .	Casuarina cristata	Black Oak	50mm
DoVi	157	Dodonaea viscosa ssp. cuneata	Wedge-leaf Hop-Bush	50mm
EuBl	148	Eucalyptus blakelyi	Blakely6 Red Gum	50mm
EuPoSu	148	Eucalyptus polyanthemos subsp. polyanthemos	Red Box	50mm
GePa	231	Geijera parviflora	Wilga Tree	140mm
LeCo	<u> </u>	Leptospermum continentale	Prickly Tea-tree	50mm
PuFa	93	Pultenaea fasciculata	Bundled Bush Pea	50mm
SeAr	93	Senna artemisioides	"Desert Cassia, Silver Cassia"	50mm
TOTAL	2156	)		



13/9/22 BELA VISTA LANE NOTE AMENDED

WELLINGTON NORTH SOLAR FARM

GOOLMA ROAD,

WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)

13531.5 WD LP201 J



# stock fence typical detail | LP202 WELLINGTON NORTH SOLAR FARM

NOTE:

STOCK FENCE TO WESTERN SCREEN PLANTING AREAS AS SHOWN ON LANDSCAPE PLANS.

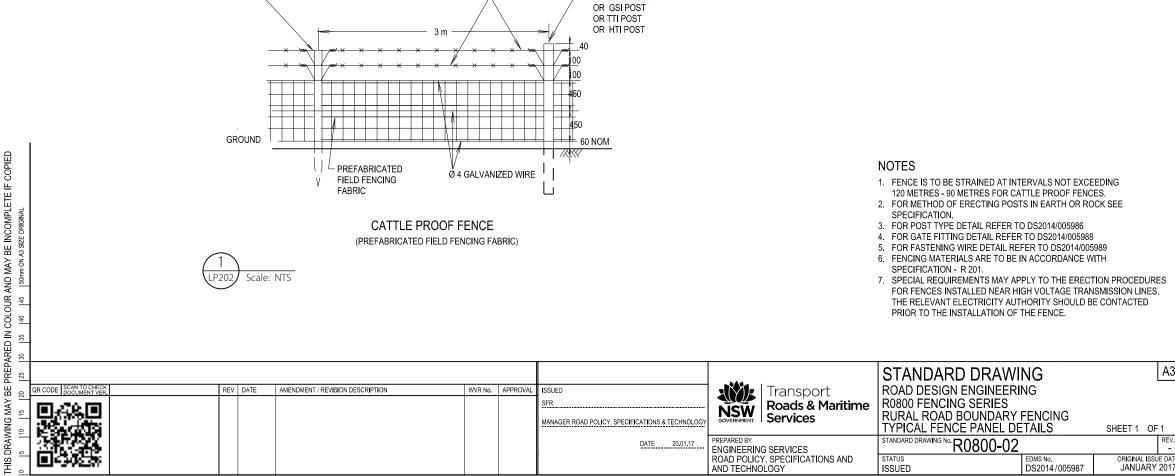
REFER RMS SPECIFICATION BELOW FOR FENCING DETAILS.

ENSURE A MINIMUM OF 5M WIDTH IS ADDED TO THE BUFFER PLANTING WIDTH TO ALLOW ADEQUATE SPACE FOR MAINTNANCE AND WATERING VEHICLES.

PROVIDE 3.0M WIDE MAINTENANCE ACCESS GATE TO EACH END OF FENCED OFF PLANTING AREA FOR DRIVE THROUGH ACCESS.

SP POST \*\*

Ø 2.5 BARBED WIRE LT



Not to scale - modified original drawing - refer link below for original document

# Typical detail extracted from TfNSW standard drawings

 $https://roads-waterways.transport.nsw.gov.au/business-industry/partners-suppliers/documents/standard-drawings/r0800\_fencingseries.pdf$ 

A3

13/9/22 BELA VISTA LANE NOTE AMENDED

PROJECT:

WELLINGTON NORTH SOLAR FARM

GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)





# general specification | LP301 WELLINGTON NORTH SOLAR FARM

# STANDARDS

REFERENCED DOCUMENTS:

AS 2303 Tree Stock for Landscape Use 2018 AS 4454 Composts, Soil Conditioners and Mulches 2003

AS 4373 Pruning of Amenity Trees - 2007

AS 4970 Protection of Trees on Development Sites - 2009

Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege) - 2014

# OTHER REFERENCED PROJECT DOCUMENTS

SSD8895 project approvals documentation as relevant to the preparation of this landscaping plan.

DEVELOPMENT CONSENT - APPLICATION NUMBER SSD 8895- 21.04.2021

NORTH WELLINGTON SOLAR FARM VISUAL IMPACT ASSESSMENT 2, 26 June 2018 (Moir Landscape Architecture)

## **WORK NEAR TREES**

PROTECTION; Protect trees to be retained from damage. Take necessary precautions. Do not store or otherwise place bulk materials and harmful materials under or near trees. Do not place spoil from excavations against tree trunks, even for short periods. Prevent damage to tree bark. Do not attach stays, guys and the like to trees. Avoid compaction of the

WORK UNDER TREES: Do not add or remove topsoil within the Tree Protection Zone (TPZ) or drip line (whichever is the greater). Use hand methods such that root systems are preserved intact and undamaged. Open up excavations under tree canopies for as short a period as possible. Ensure all cuts are clean using sharp and uncontaminated tools.

ROOTS: Where it is necessary to cut tree roots, use means such that the cutting does not unduly disturb the remaining

DAMAGES: Any damage to trees to be retained will be attended to by a qualified arborist who will prepare a report covering rectification works. Submit report to supervisor for approval. Conduct remedial works as required including removal and replacement if so recommended. All costs to be borne by the contractor.

# WEEDS

Eradicate weeds prior to start of construction works with follow-up treatments as required - inspect every two weeks. Use environmentally acceptable methods using manual methods and a non-residual Glyphosate herbicide at the manufacturer's recommended rates. Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout grassed, planted and mulched areas. Continue eradication throughout the course of the works and during the Planting Establishment Period so that a weed free area is established at completion of the establishment

# SETOUT AND DIMENSIONS

Critical design dimensions shall be obtained by the landscape contractor by survey before commencing work. Check engineers drawings to determine extent of earthworks, structures.

Landscape will primarily be passively irrigated, and plant species selected will have low water requirements. During install and establishment period, landscape will be irrigated via water truck.

GENERALLY: Use mulch as scheduled which is free of deleterious and extraneous matter such as soil, weeds and sticks. Use organic mulches which are free of stones and comply with Australian Standards specifying less than 5% fines. Use first well rotted mulch chipped on site, chip to match ANL 'Forest Blend' 20-40mm mulch. Additional mulch to be made from 100% recycled Grade A green waste and waste wood equal to Australian Native Landscape's

APPLICATION: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels.

# SOILS

Undertake soil tests on stockpiled soil designated for re-use, or imported organic soil, if requested and provide copies of test results to the EPC HSE Coordinator. Ameliorate as recommended in soil tests to bring soil up to the standards for horticultural grade organic soil to Australian Standards.

GENERAL: To Soils for Landscape Development, Selection, Specification and Validation, by Simon Leake and Elke

# SUBSOIL PREPARATION

CULTIVATION: Cultivate bases of planting holes and beds 150mm, do not use augers unless followed with cultivation of sides and base. Do not disturb services or tree roots; if necessary cultivate these areas by hand. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and any weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to the required design levels after cultivation.

# SUBSOIL ADDITIVES

ADDITIVES: Apply required additives to stockpiled site topsoil as required by soil tests if scheduled in this

GYPSUM: Provide 150g/m.sq gypsum to base of all tree planting locations unless otherwise approved.

NOTE: Refer Soils for Landscape Development, Selection, Specification and Validation, by Simon Leake and Elke Haege (2014) for soil testing requirements and minimum criteria.

Soil Type Depth

Mass Planting Soil: Low nutrient requirements Top 400mm

# TECHNICAL PARAMETERS

Generally the soil must be free of "unwanted material" and must meet the requirements of the following tables.

All soil used in the project shall be in accordance with Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege). Soil type shall be: D1

TASK ALLOCATION SCHEDULE										
ROLE	RESPONSIBILITY									
LSbp Project team	- Prepare the Landscaping Plan in accordance with Schedule 3, Condition 11 of the Development Consent (SSD 8895)  - Notify the Department of an incident or non-compliance as relevant to this Landscaping Plan  - Review internal environmental audit reports and ensure environmental performance is maintained, as relevant to this Landscaping Plan									
Engineering, Procurement and Construction (EPC) Project Manager	- Implement the Landscaping Plan prepared in accordance with Schedule 3, Condition 11 of the Development Consent (SSD 8895)  - Revise the Landscaping Plan as per the requirements of the Development Consent (SSD 8895)  - Engage qualified horticulturist to undertake landscaping works (members of the LNA Master Landscapers Association of NSW & ACT or who are eligible to successfully obtain membership)  - Ensure that all works and operations on site are undertaken in compliance with this Landscaping plan		/	/						
EPC Site Manager	<ul> <li>Ensure that all operations on site are undertaken in compliance with this management plan</li> <li>Ensure all site personal have received the appropriate training for their responsibilities</li> <li>Coordinate EPC incident response, including ensuring incident investigation is undertaken and corrective actions carried out</li> <li>Participate in Independent Environmental Audits and implement recommendations</li> </ul>		1	<b>✓</b>						
EPC Health, Safety and Environment (HSE) Coordinator	- Maintain a working knowledge of the environmental management system, this Landscaping Plan, and be aware of all environmental legislative requirements  - Carry out site inspections and environmental monitoring  - Maintain records of compliance with the development consent and this Landscaping Plan  - Investigate incidents and identify preventative actions  - Prepare incident report and implement corrective actions  - Manage toolbox talks  - Review environmental management plans as required  - Participate in Independent Environmental Audits and implement recommendations		<b>✓</b>	<b>✓</b>						
All EPC contractors and Sub-Contractors	- Undertake work in accordance with this Landscaping Plan - Ensure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor		<b>✓</b>	1						
Operations and Maintenance (O&M) site manager, EPC or otherwise	- Ensure that all operations on site are undertaken in compliance with this Landscaping Plan - Ensure maintenance of landscaping works is undertaken buy suitably qualified persons - Revise the Landscaping Plan as per the requirements of the Development Consent (SSD 8895)			<b>✓</b>						
O&M contractors	- Undertake work in accordance with this Landscaping Plan - Ensure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor			<b>✓</b>						

TASK ALLOCATION SCHEDULE

J	13/9/22	BELA VISTA LA INTERNAL ISS	UE	
	19/8/22 DATE	AMENDED 10	m BUFFER WI	DTH
112.4	DATE	COMMENTS		
PROJ	ECT:			
WE	LLING	TON NORT	TH SOLA	R
FAI	RM			
SITE:				
GO	OLMA	ROAD,		
		TON, NSW	,	
CLIEN	NT:			
_		ce bp Ren		
	-	vestment	s Limited	I
	bp)	Nth 20220913.vwx		13/9
13300	J Weinington	111120220313.		13/.
DRA		DATE:		SCAL
OS ,	/ PW	DEC 2021		@
	NUMBER:		DWG No:	RE
13	3531	.5 WD	LP30	1



# **SOFT LANDSCAPE MAINTENANCE**

## 1.1 MAINTENANCE REQUIREMENTS

# 1.1.1 SERVICE OBJECTIVES

The objective is to meet the requirements of Condition 7 in Schedule 3 of the Development Consent: The Applicant must establish and maintain a mature vegetation buffer (landscape screening) as outlined in the figure in Appendix 1 to supplement the existing vegetation along the Newell Highway to the satisfaction of the

The landscape screening must:

- (a) be planted prior to commencing operations;
- (b) be comprised of species that are endemic to the area:
- (c) within 3 years of commencing construction, effectively screen views of the solar panels and ancillary infrastructure on-site from the Newell Highway; and
  - (d) be properly maintained with appropriate weed management.

- EPC Contractor: The person, partnerships. corporation, or agency that will implement this plan and perform the
- Debris: Remains of twigs, leaves and grass clippings following completion of mowing.
- Disease: Plant ailment caused by environmental conditions such as excessive humidity or prolonged rainfall.
- Excluded Damage: damage caused by vandalism, pedestrians, vehicles, animals (except insects and rodents), or other unusual factors. It does not include damage caused by the contractor's actions, lack of reasonable care, pest damage (such as insects), diseases, or plant loss due to lack of water caused by a sprinkler system breakage. Exceptions may be made if the LSbp authorised representative determines that unusual circumstances contributed to a loss
- Garden Bed : Specific area planted out with trees, shrubs ground covers or perennial plant species.
- Herbicide : Chemical formulated to destroy or inhibit plant growth. May be selective or non-selective
- Organic Fertiliser: Plant nutrient derived from plant residues and animal wastes.
- Inorganic Fertiliser: Synthetically developed plant nutrients.
- Litter: waste material including paper, plastic and glass deposited throughout contract area.
- Mulch: protective organic/inorganic ground covering material placed on garden beds to restrict weed infestation and maintain moisture and provide soil nutrients.
- Pavement: Constructed ground surface used for pedestrian or vehicular traffic.
- Pest: Undesirable insect species causing stress or decline in plant health.
- Pruning : Removal of dead, diseased insect infested or damaged tree or shrub limb using correct horticultural
- Repair: Restoring asset within contract to its original condition in response to vandalism, breakage, etc.
- Staking : Providing artificial support to young trees or shrubs using correct horticultural techniques until they are able to be self-supporting
- Weed: Undesirable plant species within garden beds or turf areas.

- The EPC Contractor shall provide regular maintenance services as outlined in these Landscape Maintenance Specifications and the monthly checklists for this project site.
- The EPC Contractor shall examine the landscape on a regular basis, as required dependant on current site
- The EPC Contractor shall provide regular maintenance services looking for problems or potential problems with
- The EPC Contractor shall provide at his/her own risk all labour, materials, tools, equipment, insurance, transportation, hauling, dumping, and all other items needed to provide the services outlined in this Specification
- The EPC Contractor shall be responsible for making minor repairs to landscape facilities as needed and agreed with Operations and Maintenance (O&M) site manager
- The EPC Contractor shall take all reasonable precautions required to protect plants from abnormal temperatures.
- The EPC Contractor shall implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented and concluded to keep the landscape always looking its best. Observe trends and develop a maintenance regime around seasonal and observed event occurrences.

# 1.1.4 Roles and Responsibilities

See L301 for the Task Allocation Schedule

## 1.2 CARE OF PLANTED AREAS **PRUNING**

- · Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases. Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques. Where pruning for rejuvenation and improvement of plant shape is undertaken, light, regular pruning is preferable to sporadic heavy cutting.
- Prune trees only in appropriate months as determined by an arborist, undertaken in the correct season to co-ordinate with new growth and avoid loss of flowers. Those plants which bear flowers on the wood from preceding years growth are to be pruned soon after flowering. Those that bear flowers on wood made in the current season should be pruned in winter or early spring.
- Trees shall be maintained in a healthy, vigorous growing condition, free from disease and large concentrations of
- Prune trees branches to allow a minimum 300mm clearance above ground and progressively to provide a 2m clear trunk as growth will allow
- Prune also to remove dead, diseased, broken, dangerous, or crossing branches, and as required below
- Discard all tree trimmings off-site using a legal method on day of works being undertaken, causing no damage to
- Any tree found to be dead or missing shall require a notification to the LSbp Project Team advising that the tree be replaced with plant material of identical species Replacement trees shall be planted only following instruction from LSbp and shall be equal in size to the originally installed tree at the time it was planted at the site. Evidence of previous tree replacement purchases shall be evidenced by delivery dockets and purchase receipts.
- The LSbp's authorised representative shall approve replacement trees for size and appearance prior to planting. Correct planting technique must be used and replacement trees shall be double staked with 50 mm diameter stakes unless otherwise approved by the LSbp authorised representative. Ensure no damage occurs to root ball upon
- Removal and replacement must be undertaken causing minimal disturbance to existing plants.
- Mulch must be replaced to finished levels upon completion of works.
- Inspect tree stakes upon each maintenance visit and make necessary adjustments as required ensuring no damage to immature trunk or stem of plants. Remove tree stakes from trees when the trunks are larger than 50 mm caliper and the trees are able to support themselves. Remove stakes from site and dispose of by a legal method. Recycle used
- Trees planted for screening purposes shall not be pruned except as needed to remove dead, diseased, broken, dangerous, or crossing branches. Check with local authorities prior to pruning. The contractor is responsible for determining if permits are needed and shall obtain and pay for any required permits as part of the basic landscape maintenance fee.
- The cutting blades on pruning shears, clippers, blades, saws, etc. shall be sterilized after pruning each tree to minimise the possibility of spreading disease.

- Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases.
- · Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct
- Shrubs shall be kept in a healthy, vigorous condition, free from disease and large concentrations of pests and
- · Shrubs shall be pruned only as required for safety, visibility, and plant health, and allowed to develop into the natural shapes expected of the plant variety. Do not shear shrubs into topiary (shapes).
- Any shrub found to be dead or missing shall require notification to the LSbp Project Team.
- Removal and replacement must be undertaken causing minimal disturbance to existing plants.
- Mulch must be replaced to finished levels upon completion of works.

Granular fertiliser to mass planted areas shall be slow release applied at maximum label rate for plant types at intervals indicated in Annual Maintenance Schedule to ensure optimum plant nutrient requirements are maintained. Water immediately after applying to move the fertiliser into the soil and wash the fertiliser off of plant surfaces.

Undertake a long term fertiliser regime, as per soil test results. Initial fertiliser/additive application at time of planting, as per soil test results

FERTILISER - Plant growth formula equal to Neutrog Bush Tucker slow release granules.

NPK RATIO - 10:1:8

RATE - As per manufacturer's recommended rate

## 1.2.8 WEED CONTROL:

Eradicate weeds by environmentally acceptable methods using a non-residual Glyphosate herbicide suitable for environmentally sensitive areas (such as Bi-active Roundup or similar), at the maximum recommended rate.

Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout planted areas. There shall be no greater than 2% weed coverage within planting areas and shall not exceed 50mm tall. Hand removal of weeds must not damage screening plants to be retained.

Maintenance herbicide application must be kept to a minimum. Use surfactants to increase herbicide effectiveness by breaking down the leaf surface tension. Regular maintenance of the mulch layer will help minimise weeds in shrub and groundcover areas.

Weed eradication within landscape buffers should only target weed species. Emerging seedlings which are identified as native species should be retained as natural infill and succession vegetation.

# 1.2.9 MULCH LAYER:

Mulch shall applied to all tree / shrub planted areas to maintain a depth of 75mm, to limit weed infestation and maintain moisture and nutrient content of garden.

Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread mulch so that after settling it is smooth and evenly graded between design surface levels sloped towards the base of plant stems in mass planted beds.

Replacement of large amounts of mulch (over 0.75 cubic metre), which has been stolen, vandalized, or washed away by a single storm shall be replaced in agreement with project manager. Mulch shall be uniform and free of sticks, or trash. When replacing existing mulch, use a mulch product that is similar in appearance to that already at the site.

Hand water, water truck or other irrigation as needed to supplement natural rainfall and maintain plantings in a healthy, stress-free condition. It is the contractor's responsibility to make sure that plants receive adequate water regardless of weather conditions.

Watering should be undertaken during periods of minimum evaporation (ie: during the coolest times of the day or when the garden bed is in the shade). Shrubs and trees in full sun must not be watered on the foliage to avoid leaf

It is the responsibility of the contractor to conserve water and assure that all watering rules and regulations are followed. Any penalties, fines, or citations for watering ordinance violations shall be paid by the contractor.

# 1.2.11 CHEMICALS, HERBICIDES, PESTICIDES

All chemicals shall be used in accordance with label directions and the manufacturer's recommended handling methods. All chemicals shall be handled in accordance with all applicable regulations. Registered chemicals shall be used only on the advice of a qualified, licensed if required, pest control advisor. Nothing in this specification shall be construed to be the advice of, or to substitute for the advice of, a pest control adviser.

13/9/22 BELA VISTA LANE NOTE AMENDED 13/9/22 INTERNAL ISSUE 19/8/22 AMENDED 10m BUFFER WIDTH

WELLINGTON NORTH SOLAR

FARM

GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable **Energy Investments Limited** (LSbp)

13531.5 WD LP302 J



TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069

# **Vegetation Management Program**

The following table is a summary of ongoing maintenance activities that will be required to be undertaken for two years following commencement of operation, to meet the requirements of condition 8. It is the responsibility of the EPC Contractor, specifically the EPC Project Manager and EPC HSE Coordinator to implement this program

MAINTENANCE PROGRAM FOR INITIAL 12 MONTH PERIOD

ACTIVITY	AREA	AREA DESCRIPTION										ONAL	DETERM	MINATION OF TASK	
			J	F	М	А	М	J	J	А	S	0	N	D	Other
MULCHING	VEGETATIVE SCREEN PLANTING	INSPECT AND MAINTAIN ORGANIC MULCH COVER	~				<b>✓</b>				<b>✓</b>				
WATERING	VEGETATIVE SCREEN PLANTING	AS REQUIRED FOR ESTABLISHMENT. DEEP WATER ALL AREAS IN TIMES OF PROLONGED DRY													AS REQUIRED AT SIGNS OF STRESS FOR MINIMUM 52 WEEKS.
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL	<b>√</b>								<b>√</b>		<b>√</b>		
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER										✓			APPLY SLOW RELEASE FERTILISER TO THE BASE OF EACH TREE / SHRUB
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND	~		~		<b>~</b>				<b>✓</b>		<b>√</b>		
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR RAIN EVENTS. REPAIR WASHOUT/SCOURING													AFTER STORM EVENT
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						1	1	1					UNDERTAKE SOMETIME DURING WINTER MONTHS DURING SLOWDOWN
PRUNING	VEGETATIVE SCREEN PLANTING	PRUNE LOWER BRANCHES TO ENSURE A 300MM CLEARANCE FROM THE GROUND		1						<b>√</b>					UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.
RESEED	PASTURE	INSPECT EXTENTS OF PASTURE AND RESEED AS NECESSARY			~						<b>✓</b>				
VEGETATION MANAGEMENT PROGRAM REVIEW	VEGETATIVE SCREEN PLANTING	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGEMENT PRACTICES.								✓					
MONITORING (Consent Condition 11 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO A SSESS HEALTH AND VIGOUR OF PLANTS & RECOMMEND REMOBLAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS, ARE TO BE PROGRESSIVELY REPLACED.  ONGOING MONITORING TO ASSESS THE EFFECTIVENESS OF THE LANDSCAPING AS VISUAL SCREENING IS TO BE UNDERTAKEN, ADDITIONAL PLANTINGS MAY BE CONSIDERED, IF ASSESSMENTS INDICATE THE LANDSCAPING MEASURES ARE NOT AS EFFECTIVE AS PLANNED.		*			<b>√</b> *			*			√*		* NOMINAL (ADJUST AS REQUIRED TO SUIT COMPLETION OF THE LANDSCAPE WORKS) PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE, PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIS MONITORING WILL BE REQUIRED EVERY THREE MONTHS
REPORTING (Consent Condition 11 - b & c)	ALL LANDSCAPE WORKS	FOLLOWING EACH MONITORING EVENT PREPARE A REPORT COMMENTING ON THE CONDITION OF THE LANDSCAPE WORKS. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS TO BE SUBMITTED TO LSbp.		<b>√</b>			1			1			1		

ONGOING MAINTENANCE PROGRAM TO SUBSEQUENT 12 MONTHS CYCLES				F	М	А	М	J	J	А	S	0	N	D	
MULCHING	VEGETATIVE	INSPECT AND MAINTAIN ORGANIC MULCH COVER	_									<b>√</b>			APPLY ADDITIONAL MULCH TO ANY BARE AREAS
	SCREEN PLANTING  VEGETATIVE	INSPECT MONTHLY FOR WATER STRESS			<u> </u>	_									
WATERING	SCREEN PLANTING		<u> </u>	·	Ľ	· ·	ľ	·	Ľ	<b>✓</b>	ľ	<b>✓</b>	Ľ	<b>✓</b>	AS REQUIRED AT SIGNS OF STRESS
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL		✓				<b>✓</b>				✓			WEED SPECIES ONLY TO BE REMOVED. EMERGING SEEDLINGS WHICH ARE IDENTIFIED AS NATIVE SPECIES SHOULD BE RETAINED
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER		1								~			
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND		✓								✓			
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR STORM EVENTS. REPAIR SCREEN AS REQUIRED													FOLLOWING STORM EVENTS
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						✓	~	✓					UNDERTAKE SOMETIME DURING WINTER MONTHS DURING PLANT GROWTH SLOWDOWN
PRUNING	VEGETATIVE SCREEN PLANTING	ENSURE ALL TREES HAVE A CLEAR TRUNK HEIGHT OF 2M AND TALL-MEDIUM SHRUBS ARE MAINTAINED TO BE CLEAR OF TREE CANOPIES									1				UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.
VEGETATION MANAGEMENT PROGRAM REVIEW	ALL LANDSCAPE WORKS	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGEMENT PRACTICES.								<b>✓</b>					
MONITORING (Consent Condition 11 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST OR SIMILAR TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO ASSESS HEALTH AND VIGOUR OF PLANTS. & RECOMMEND REMEDIAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS ARE TO BE PROGRESSIVELY REPLACED.  ONGOING MONITORING TO ASSESS THE EFFECTIVENESS OF THE LANDSCAPING AS VISUAL SCREENING IS TO BE UNDERTAKEN. ADDITIONAL PLANTINGS MAY BE CONSIDERED, IF ASSESSMENTS INDICATE THE LANDSCAPING MEASURES ARE NOT AS EFFECTIVE AS PLANNED.		<b>✓</b>						<b>*</b>					PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIST.
REPORTING (Consent Condition 11 - b & c)	ALL LANDSCAPE WORKS	REPORTING IS TO BE COMPLETED YEARLY STARTING AT THE COMPLETION OF THE INITIAL 12 MONTH MAINTENANCE PROCRAM. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS, SHOULD IT BE REQUIRED. REPORT IS TO BE TO BE SUBMITTED TO LSbp.		<b>✓</b>											THE FIRST REPORT WILL BE UNDERTAKEN AND SUBMITTED BY THE END OF FEBRUARY AND THEN EVERY 12 MONTHS THEREAFTER.



13/9/22 BELA VISTA LANE NOTE AMENDED
13/9/22 INTERNAL ISSUE
19/8/22 AMENDED 10m BUFFER WIDTH
DATE COMMENTS

PROJECT:

WELLINGTON NORTH SOLAR FARM

GOOLMA ROAD, WELLINGTON, NSW

Lightsource bp Renewable Energy Investments Limited (LSbp)

13531.5 WD LP303 J



# Compliance with Development Consent (SSD 8895)

Lightsource Development Services Australia Pty Ltd, a wholly owned subsidiary of Lightsource bp Renewable Energy Investments Limited (LSbp) received development consent for the Wellington North Solar Farm (SSD 8895) in April 2021. The development consent was granted by a delegate of the Minister for Planning and Public Spaces under section 4.38 of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act). A compliance summary for this Landscaping Plan and all applicable requirements from the SSD8895 Development Consent is presented below.

# Condition 1, Schedule 2 - OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

In meeting the specific environmental performance criteria established under this consent, LSbp and/or its nominated EPC Contractor will implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, upgrading or decommissioning of the development (refer PAGE L301 - GENERAL SPECIFICATION).

## Condition 10, Schedule 3 - VEGETATION BUFFER

Unless the Planning Secretary agrees otherwise the EPC Contractor will:

Establish and maintain a 10 metre wide vegetation buffer (landscape screening) at locations along the development boundary as required by the development consent (SSD 8895) as outlined on this document and landscape screening in locations within or directly alongside the transmission line easement adjacent to R21 and R22, to the satisfaction of the Planning Secretary. **(PAGE LP101-104)** 

The landscape screening will:

(a) be planted prior to commencing operations at a time to be approved by the planning secretary, selected to minimise losses due to climatic constraints and maximise plant establishment growth. Proposed to be after the last frost of the year (PAGE LP201 & LP302):

(b) be comprised of species that are endemic to the area (PAGE LP201);

(c) minimise views:

i) of the development from residences R2, R3, R4 and R6; and

ii) of the development's electricity transmission line from residences R21 and R22, within 3 years of commencing operations; (PAGE LP104, LP201, LP302);

(d) be designed and maintained in accordance with RFS's Planning for Bushfire Protection 2019 (or equivalent); and (e) be properly maintained with appropriate weed management (PAGE LP302).

# Condition 11, Schedule 3 - LANDSCAPE PLAN

LSbp has sought approval from the NSW Government - Department of Planning and Environment (the Department) to reduce the vegetation buffer with to 5 m.

LSbp has prepared a detailed Landscaping Plan (contained within this document) for the development in consultation with Council and receivers R2, R3, R4, R6, R21 and R22, to meet the satisfaction of the Secretary. This plan includes:

(a) a description of measures that would be implemented to ensure that the vegetated buffer achieves the objectives of condition 10 (a) - (e) above (PAGE LP102, LP201, LP302)

(b) a program to monitor and report on the effectiveness of these measures; and

(c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for the completion of actions (PAGE LP301 & LP303 ).

Following the Secretary's approval, LSbp will implement the Landscaping Plan.

# Condition 12, Schedule 3 - LAND MANAGEMENT

The EPC Contractor will maintain the agricultural land capability of the site, including:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac$ 

(a) establishing the ground cover of the site within 3 months following completion of any construction or upgrading; (b) properly maintaining the ground cover with appropriate perennial species and weed management (PAGE LP303); and

(c) maintaining grazing within the development footprint, where practicable, unless the Planning Secretary agrees otherwise.

# Condition 13, Schedule 3 - VEGETATION CLEARANCE

The EPC Contractor will not clear any native vegetation or fauna habitat located outside the approved disturbance areas described in the EIS.

# Condition 26, Schedule 3 - SOIL & WATER - Operating Conditions

The EPC Contractor will:

(a) minimise erosion and control sediment generation;

(b) ensure that construction, upgrading or decommissioning of the development has appropriate drainage and erosion and sediment controls designed, installed and maintained in accordance with the relevant requirements in the Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual, or its latest version;

EPC Contractor to ensure compliance with this condition and implement all necessary erosion and sediment control measures.

# Condition 2, Schedule 4 - ENVIRONMENTAL MANAGEMENT - Revision of Strategies, Plans and Programs

Sbp and/or the EPC Contractor will

(a) update the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary prior to carrying out any upgrading or decommissioning activities on site; and

(b) review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Planning Secretary within 1 month of:

- the submission of an incident notification under condition 7 of Schedule 4;
- the submission of an audit report under condition 11 or 13 of Schedule 4; or
- $\boldsymbol{\cdot}$  any modification to the conditions of this consent.

LSbp has an Environmental Management Strategy where this is further addressed.

# conditions LP304 WELLINGTON NORTH SOLAR FARM

# Condition 7, Schedule 4 - COMPLIANCE - Incident Notification

The Department (DPE) will be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development), and set out the location and nature of the incident.

LSbp has an Environmental Management Strategy (EMS) prepared in accordance with Schedule 4, Condition 1 of the SSD 8895 Development Consent. Relevant aspects of Incident Notification are addressed in full in the EMS.

# Condition 8, Schedule 4 - COMPLIANCE - NON-COMPLIANCE NOTIFICATION

DPIE will be notified in writing to compliance@planning.nsw.gov.au within 7 days after the Applicant becomes aware of any non-compliance with the conditions of this consent. The notification will identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the noncompliance (if known) and what actions have been done, or will be, undertaken to address the noncompliance.

LSbp has an EMS prepared in accordance with Schedule 4, Condition 1 of the SSD 8895 Development Consent. Relevant aspects of Non-compliance Notification are addressed in full in the EMS.

# Conditions 11-16, Schedule 4 - INDEPENDENT ENVIRONMENTAL AUDIT

- 11. Independent Audits of the development must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (2020) to the following frequency:
  - (a) within 3 months of commencing construction; and
  - (b) within 3 months of commencing operations.
- 12. Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.
- 13. The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4, upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.
- 14. In accordance with the specific requirements of the Independent Audit Post Approval Requirements (2020), the Applicant must:
- (a) review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary;
  - (b) submit the response to the Planning Secretary; and
- (c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary.
- 15. Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the Independent Audit Post Approval Requirements (2020) unless otherwise agreed by the Planning Secretary.
- 16. Notwithstanding the requirements of the Independent Audit Post Approval Requirements (2020), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.

 $\label{thm:commendations} The recommendations of the Independent Environmental Audit will be implemented to the satisfaction of the Secretary.$ 

# Condition 8, Schedule 4 - ACCESS TO INFORMATION

LSbp will:

(a) make the following information publicly available on its website as relevant to the stage of the development:

- the EIS;
- the final layout plans for the development;
- current statutory approvals for the development;
- $\bullet \ approved \ strategies, \ plans \ or \ programs \ required \ under \ the \ conditions \ of \ this \ consent;$
- the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
- provide a 24hr telephone line and instruction as to how complaints or enquiries about the development can be made;
- a complaints register
- any independent environmental audit, and the Applicant's response to the recommendations in any audit; and
- any other matter required by the Planning Secretary; and (b) keep this information up to date.

LSbp has a Consultation and Stakeholder Engagement Plan where this is further addressed

J 13/9/22 BELA VISTA LANE NOTE AMENDED
I 13/9/22 INTERNAL ISSUE
H 19/8/22 AMENDED 10m BUFFER WIDTH

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SIIE:

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CLIE

Lightsource bp Renewable Energy Investments Limited (LSbp)

DRAWN: DATE:

S / PW DEC 2021

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