

All correspondence to be addressed to the Chief Executive Officer PO Box 191 BARCALDINE QLD 4725 <u>council@barc.qld.gov.au</u> www.barcaldinerc.qld.gov.au

ABN: 36 154 302 599

Council File Reference: Council Contact: Council Contact Phone: DA121617-1 Brett Walsh (07) 4651 5600

19 June 2018

YD Projects Pty Ltd P O Box 1441 COORPAROO DC QLD 4151

Attention: Mr Glenn Clark

Change Application

Minor Change to Development Approval (dated 27 February 2017) for:

Development Permit – Material Change of Use: "Community Oriented Activity" – "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array)

Development Permit – Reconfiguring a Lot: Subdivision – 1 Lot into 2 Lots

Street Address:	Longreach	Road	(Old	Racecourse	Paddock),
Droparty Description	Barcaldine	0136851			
Property Description.	LOUTZONSP	130031			

I refer to your change application as described above and advise your application has been approved in the form and manner as proposed.

Pursuant to section 83 of the *Planning Act 2016*, please find attached the *Decision Notice*.

If you have any queries please contact Brett Walsh at the Barcaldine Administration Office.

Yours faithfully

Steven Boxall Chief Executive Officer

ALPHA OFFICE Phone: 07 4985 1166 Fax: 07 4985 1162 ARAMAC OFFICE Phone: 07 4652 9999 Fax: 07 4652 9990 BARCALDINE OFFICE Phone: 07 4651 5600 Fax: 07 4651 1778

DECISION NOTICE APPROVAL

(Pursuant to section 83 of the Planning Act 2016)

Council File Reference: DA121617-1 Council Contact: Brett Walsh Council Contact Phone: 07 4651 5600

19 June 2018

YD Projects Pty Ltd P O Box 1441 COORPAROO QLD 4151

Attention: Mr Glenn Clark

Change Application

Street Address:

Applicant:

Minor Change to Development Approval(dated 27 February 2017) for:

Development Permit – Material Change of Use: "Community Oriented Activity" - "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array)

Development Permit - Reconfiguring a Lot: Subdivision – 1 Lot into 2 Lots

Longreach Road (Old Racecourse Paddock), Barcaldine **Property Description:** Lot 72 on SP136851 YD Projects Pty Ltd **Council File Reference:** DA121617-1

I advise that, on 15 June 2018, the above change application was approved, pursuant to section 81 of the Planning Act 2016.

DETAILS OF THE APPROVAL:

Change Application

Minor Change to Development Approval (dated 27 February 2017) for:

Development Permit - Material Change of Use: "Community Oriented Activity" - "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array)

Development Permit – Reconfiguring a Lot: Subdivision - 1 Lot into 2 Lots

CHANGES TO APPROVAL (dated 27 February 2017):

The approved changes to the Approval dated 27 February 2017 are included in the following attachments to this decision notice:

Attachment A - Changes to Development Approval

Item 10 Approved Plans Item 11 Plans Requiring Amendment Item 12 Approved Document Item 13 Assessment Manager's Conditions Attachment B – Approved Plans Attachment C – Approved Document.

CURRENCY PERIOD FOR THE APPROVAL:

This approval does not extend the currency period for the Approval dated 27 February 2017 being six (6) years starting the day the Approval first took effect (refer to section 85 "Lapsing of approval at end of currency period" of the *Planning Act* 2016).

APPEAL RIGHTS:

The rights of an applicant to appeal to a tribunal or the Planning and Environment Court against a decision about a development application are set out in chapter 6, part 1 of the *Planning Act 2016*. For particular applications, there may also be a right to make an application for a declaration by a tribunal (see chapter 6, part 2 of the *Planning Act 2016*).

Appeal by an applicant

An applicant for a development application may appeal to the Planning and Environment Court against the following:

- the refusal of all or part of the development application
- a provision of the development approval
- the decision to give a preliminary approval when a development permit was applied for
- a deemed refusal of the development application.

An applicant may also have a right to appeal to the Development tribunal. For more information, see schedule 1 of the *Planning Act 2016*.

The timeframes for starting an appeal in the Planning and Environment Court are set out in section 229 of the *Planning Act* 2016.

An extract from the *Planning Act 2016* that sets down the applicant's appeal rights and the appeal rights of a submitter is in **Attachment D – Extract from the** *Planning Act 2016* **Relating to Appeal Rights.**

DECISION NOTICE HISTORY:

DA121617	Original Decision Notice	27 February 2017
DA121617-1	Change to Development Approval	15 June 2018

Attachment A

CHANGES TO DEVELOPMENT APPROVAL

Item 10 APPROVED P	LANS
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- Item 11 PLANS REQUIRING AMENDMENT
- Item 12 APPROVED DOCUMENT
- Item 13 ASSESSMENT MANAGER'S CONDITIONS

(10) APPROVED PLANS

<u>PART A</u>: DEVELOPMENT PERMIT FOR MATERIAL CHANGE OF USE FOR "COMMUNITY ORIENTED ACTIVITY" – "PUBLIC UTILITY" (9MWP GRID CONNECT SOLAR PHOTOVOLTAIC ARRAY)

Approved Plans

The approved plans for this Development Permit for Material Change of Use for "Community Oriented Activity" – "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array) are listed in the table below. Refer to Attachment A for a copy of the approved plans.

Reference:	1
Description:	"Views", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	2
Description:	"Feeders", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	3
Description:	"Proposed Lots", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	4
Description:	"Lot Overview", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	5
Description:	"Solar Details 1", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	6
Description:	"Solar Details 2", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	7
Description:	"Solar Details 3", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	8
Description:	"DC Trunks", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	9
Description:	"Solar Details 4", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	10
Description:	"Elevations 1", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	11
Description:	"Elevations 2", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.
Reference:	12
Description:	"MVPS Details 1", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.

Reference:13Description:"MVPS Details 2", prepared by YD Projects, dated July 13, 2017Amendments:Nil.

PART B: DEVELOPMENT PERMIT FOR RECONFIGURING A LOT (1 LOT INTO 2 LOTS SUBDIVISION)

Approved Plans

The approved plans for this Development Permit for Reconfiguring a Lot (1 Lot into 2 Lots Subdivision) are listed in the table below. Refer to Attachment B for a copy of the approved plans.

Reference:	3
Description:	"Proposed Lots", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil
Reference:	4
Description:	"Lot Overview", prepared by YD Projects, dated July 13, 2017
Amendments:	Nil.

(11) PLANS REQUIRING AMENDMENT

No plans require amendment.

(12) APPROVED DOCUMENT

PART A: DEVELOPMENT PERMIT FOR MATERIAL CHANGE OF USE FOR "COMMUNITY ORIENTED ACTIVITY" – "PUBLIC UTILITY" (9MWP GRID CONNECT SOLAR PHOTOVOLTAIC ARRAY)

Approved Document

The approved document for this Development Permit for Material Change of Use for "Community Oriented Activity" – "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array) is listed in the table below. Refer to Attachment C for a copy of the approved document.

Description: "Runoff Calculations for Proposed Solar Farm, Barcaldine", Version 2 (V 2.0) prepared by SMK Consultants, dated 13/09/2017.

Note 2:

The above approved document is for the purpose of compliance with Condition 13, Item 13 (Part A) of this Decision Notice.

(13) ASSESSMENT MANAGER'S CONDITIONS

PART A: DEVELOPMENT PERMIT FOR MATERIAL CHANGE OF USE FOR "COMMUNITY ORIENTED ACTIVITY" – "PUBLIC UTILITY" (9MWP GRID CONNECT SOLAR PHOTOVOLTAIC ARRAY)

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	Approved Use
1.	Approval is granted for the purpose of Material Change of Use for "Community Oriented Activity" – "Public Utility" (9MWP Grid Connect Solar Photovoltaic Array).
	Approved Plans
2.	The development shall be generally in accordance with supporting information supplied by the applicant with the development application, including the approved plans listed in Item 10 (Part A) of this Decision Notice.
1.	Plans Requiring Amendment – Prior to becoming Approved Plans
3.	Deliberately left blank
	Existing Use – "Grazing"
4.	The existing use of the subject site for "Grazing" is permitted within Proposed Lot 2 for pastoral management purposes and must be carried out in accordance with the requirements of the <i>Barcaldine Shire Planning Scheme 2006</i> .
	Easement
5.	No buildings or structures are to be erected within the electricity easement (Easement R on SP111273) without the consent of the Grantee.
	Construction Phase – Required Technical Reporting
6.	Site Works Construction Plan:Prior to any construction of the grid connect solar photovoltaic array taking place, detailed reporting and plans of all construction works shall be prepared by a suitably qualified and experienced person and shall be submitted to and for endorsement by Council. The reporting and plans must comprehensively address all matters relating to the construction, including:(a) all earthworks;(b) the construction of foundations and framing on which the solar panels are to be mounted;(c) internal access driveways and tracks;(d) the installation of transformers and associated equipment for the on-site sub-station;(e) trenching necessary for the laying of electrical conduits and cabling connecting solar arrays with inverters, transformers and the transmission line; and(f) proposed final site levels/contours and associated site drainage lines.
7.	 Stormwater Drainage Management Plan: Prior to any construction of the grid connect solar photovoltaic array taking place, a Stormwater Drainage Management Plan shall be prepared by a suitably qualified and experienced person and shall be submitted to and for the endorsement of Council. The Stormwater Drainage Management Plan shall detail all temporary mechanisms to be implemented during construction to ensure: no sediment leaves the subject site; no contaminants are discharged into the receiving environment.; no scouring occurs on the subject site; and

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	(d) no ponding of overland flow occurs within the boundaries of the subject site.
8.	Construction Management Plan:Prior to any construction of the grid connect solar photovoltaic array taking place, a ConstructionManagement Plan shall be prepared and shall be submitted to and for the endorsement of Council. TheConstruction Management Plan shall incorporate all reporting relating to construction works andprocedures, including, but not limited to:(a) the Site Works Construction Plan prepared to address Condition 6; and(b) the Stormwater Drainage Management Plan prepared to address Condition 7
9.	All construction works shall be carried out in accordance with the Construction Management Plan required by Condition 8 (above).
10.	All reporting in respect of the construction phase must ensure activities are in accordance with industry best practice.
	Operational Phase – Required Technical Reporting
11.	Weed and Pest Management Plan: Prior to the commencement of the use, a detailed Weed and Pest Management Plan, specific to the subject site, shall be prepared by a suitably qualified and experienced person and shall be submitted to and for the endorsement of Council. The Weed and Pest Management Plan shall address, but is not limited to the identification of weed and pest species existing or likely to exist within the subject site, the control of any identified species and the measures required to prevent the transport of weed species from the subject site by vehicle.
12.	Fire Management Plan: Prior to the commencement of the use, a Fire Management Plan shall be prepared by a suitably qualified and experienced person and shall be submitted to and for the endorsement of Council. The Fire Management Plan shall address all matters relating to fire management on the subject site, including, but not limited to: (a) staff training; (b) provision/ storage of water required for fire fighting; (c) fire fighting equipment and infrastructure; and (d) all remedial and preventative measures, including: (i) periodic fuel reduction of the area not containing the grid connect solar photovoltaic array (for example; slashing); and (ii) periodic fuel reduction of subject site area containing the grid connect solar photovoltaic array (for example; a ground treatment such as crushed rock, to ensure direct flame contact cannot occur).
13.	 <u>Stormwater Drainage Management Plan:</u> Prior to the commencement of the use, a Stormwater Drainage Management Plan shall be prepared by a Registered Professional Engineer Queensland (RPEQ)-Civil or other suitably qualified and experienced person, and shall be submitted to and for the endorsement of Council. The Stormwater Drainage Management Plan shall incorporate the recommendations of the Approved Document listed in Item 12 (Part A) of this Decision Notice, "Runoff Calculations for Proposed Solar Farm, Barcaldine", Version 2 (v2.0), prepared by SMK Consultants, dated 13/09/2017 and shall comprehensively address all matters of stormwater management, including, but not limited to: (a) the change in stormwater flow and runoff as a result of the change to ground surface from construction works; (b) details of the amount of stormwater which may be discharged from the subject site in an average storm event for a 100 year storm return period (100 ARI);

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	(c) the flow paths of stormwater through the subject site:
	(d) any water collection/storage devices on the subject site to control the volume of water leaving the
	subject site;
	(e) details of any erosion and pollution/sediment control devices to be installed to ensure:
	(I) no sediment leaves the subject site; and (ii) no contaminante are discharged into the receiving environment
	(f) the lawful point or points of discharge from the subject site: and
	(g) reporting demonstrating that no ponding of overland flow will occur:
	(i) within the boundaries of the subject site; and
	(ii) on the boundaries of the subject site.
	Discuss to each of all works are included to implement the findings and recommandations detailed in
14.	the Stormwater Drainage Management Plan, as required by Condition 13, shall be submitted by the applicant to and for the endorsement of Council prior to the commencement of the use.
15.	All stormwater collection and stormwater quality devices shall be constructed, prior to the commencement of the use, in accordance with the design/s endorsed by Council, as required by Condition 14, and shall be maintained at all times while the use continues.
16.	Operational Management Plan:
	Prior to the commencement of the use, an Operational Management Plan for the operation and
	maintenance of all aspects of the use shall be prepared by a suitably qualified and experienced person
	and shall be submitted to and for the endorsement of Council. The Operational Management Plan shall incorporate all reporting relating to systems and procedures associated with the operation and
	maintenance of the use, including, but not limited to:
	(a) the Weed and Pest Management Plan prepared to address Condition 11;
	(b) the Fire Management Plan prepared to address Condition 12; and
	(c) the Stormwater Drainage Management Plan prepared to address Condition 15
17.	The operation of the use shall occur in accordance with the Operational Management Plan required by
	Condition 16 (above) at all times while the use continues.
18.	All reporting in respect of the operational phase must ensure activities are in accordance with industry best
	Cleaning of Solar Panels
19.	The cleaning of solar panels shall use only water, with no chemical additives.
	Lighting
20.	Lighting of the subject site, including any security lighting, shall be such that the lighting intensity does not
	exceed 8.0 lux at a distance of 1.5 metres from the subject site at any property boundary. All lighting shall
	be directed or shielded so as to ensure that no grare directly affects hearby properties of the operational safety of the Barcaldine – Aramac Road Landsborough Highway and the railway line
	Salety of the Baroliania - Yalamao Road, Editaboroagin rightay and the raintay mile.
	Dust Suppression
21.	Appropriate dust suppression measures and/or containment shall be incorporated into all construction and
	operational activities to ensure all activities are conducted to appropriate standards relating to air quality.
	Measures may include the watering of driveway, manoeuvring and construction areas, where necessary.
	Security Fencing
22.	A 1.8 m high security fence shall be erected along the perimeter of the grid connect solar photovoltaic

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IL LOF.	arrays, as indicated on plan no. 5 of the Approved Plans listed in Item 10 (Part A) of this Decision Notice, Plan Reference: 5, "Solar Details 1", prepared by YD Projects, dated July 13, 2017 and shall be maintained at all times while the use continues.
	Access Tracks
23.	Access tracks shall be provided within the subject site, generally as shown on plan no. 5 of the Approved Plans listed in Item 10 (Part A) of this Decision Notice, Plan Reference: 5, "Solar Details 1", prepared by YD Projects, dated July 13, 2017. The access tracks shall be maintained at all times while the use continues.
	Loading and Unloading
24.	Loading and unloading shall occur only between the hours of 7.00am and 6.00pm Monday to Friday, and 7.00am and 12.00 noon Saturday. No loading and unloading shall occur on Sundays or Public Holidays.
25.	Adequate loading and unloading areas for the use shall be provided on the subject site. All loading and unloading shall be carried out only within the boundaries of the subject site and shall not be undertaken external to the subject site.
4.2	Vehicle Access
26.	One (1) vehicle crossover shall be provided from the Barcaldine–Aramac Road to Proposed Lot 2, located generally as indicated on plan no. 3 of the Approved Plans listed in Item 10 (Part A) of this Decision Notice, Plan Reference: 3, " <i>Proposed Lots</i> ", prepared by YD Projects, dated July 13, 2017. The vehicle crossover shall be designed and constructed in accordance with the Department of Transport and Main Roads standards and Schedule 1, Division 2: Standards for Roads, Carparking, Manoeuvring Areas and Access, Section 2.3(1) of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
27.	The location of the connection of the vehicle access from the Barcaldine-Aramac Road to Proposed Lot 2 shall be at chainage 1.7 km from the intersection of the Barcaldine-Aramac Road and the Capricorn Highway.
28.	The existing vehicle access from Longreach Road via the railway level crossing from Landsborough Highway to the subject site generally as shown on plan no. 3 of the Approved Plans listed in Item 10 (Part A) of this Decision Notice, Plan Reference: 3, " <i>Proposed Lots</i> ", prepared by YD Projects, dated July 13, 2017 as " <i>Access to Proposed Lot 1 from Landsborough Highway</i> " shall be retained. The vehicle access shall be upgraded, if necessary, to accord with Schedule 1, Division 2: Standards for Roads, Carparking, Manoeuvring Area and Access, Section 2.3(1) and (2) of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
29.	The vehicle crossover to Proposed Lot 2 shall be appropriately signed at the vehicle entry points to ensure there is no vehicle access to the subject site by the general public. Signage shall be in accordance with the Manual of Uniform Traffic Control Devices.
	Vehicle Manoeuvring
30.	Vehicle manoeuvring areas shall be provided so that all vehicles, including heavy vehicles, associated with the use can enter and leave the subject site in a forward direction.
31.	All internal driveways and areas where vehicles regularly manoeuvre and park shall be constructed of suitable material to facilitate all weather operation, and shall be designed and constructed in accordance with Schedule 1, Division 2: Standards for Roads, Carparking, Manoeuvring Areas and Access, Section 2.2(1)(b) of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed

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	engineering standards.
	Water Supply
32.	The subject site shall be provided with a water supply of an adequate volume and quality for the proposed use, including for firefighting, solar panel cleaning and dust suppression purposes, to relevant engineering and environmental standards.
	Erosion Control
33.	Best practice soil erosion control techniques shall be used at the location of all works to be completed on the subject site, in accordance with Schedule 1, Division 1: Standards for Construction Activities, Section 1.1 of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards, and shall remain in place for the duration of construction.
34.	No construction shall take place until the appropriate erosion control and silt collection measures are in place as required by Condition 33 (above). Such erosion control and silt collection measures shall remain on-site throughout the construction phase.
·	Timing of Works
35.	All works required by the conditions of approval for the vehicle crossovers and stormwater drainage shall be completed prior to the commencement of the use, unless such works are bonded to the satisfaction of Council.
·	Cost of Works and Services
36.	The cost of carrying out works and providing services to the subject site, as required by conditions of approval, shall be at the expense of the applicant.
	Payment of Rates and Charges
37.	All outstanding rates and charges shall be paid to Council prior to the commencement of the use.
	Decommissioning Plan
38.	 Prior to the commencement of the use, a Decommissioning Plan shall be submitted to and for the endorsement of Council. The Decommissioning Plan shall address all matters relating to the decommissioning of the use, including, but not limited to: (a) the dismantling and removal of all buildings and structures associated with the use; (b) the remediation of all vehicle manoeuvring areas; and (c) the rehabilitation and regeneration of the area to rural pasture grassland.
39.	Should the approved development cease to operate on the subject site, all aspects of the approved use must be decommissioned in accordance with the Decommissioning Plan required by Condition 38.

PART B: DEVELOPMENT PERMIT FOR RECONFIGURING A LOT (1 LOT INTO 2 LOTS SUBDIVISION)

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	Approved Subdivision
1.	Approval is granted for the purpose of Reconfiguring a Lot (1 Lot into 2 Lots Subdivision)
	Approved Plans
2.	The development shall be generally in accordance with supporting information supplied by the applicant with the development application including the plans listed in Item 10, Part B (above) of this Decision Notice.
	Street Numbering
3.	Each proposed lot shall be given an appropriate street number in accordance with Australian Standards AS/NZS 4819:2011 Rural and urban addressing.
	Easement
4.	The existing easement (Easement R on SP111273) shall be incorporated within the Plan of Survey required by Condition 17.
	Fencing
5.	Appropriate fencing shall be erected along the entire boundary of Proposed Lot 2 as indicated on plan no. 3 of the Approved Plans listed in Item 10 (Part B) of this Decision Notice, Plan Reference: 3 "Proposed Lots", prepared by YD Projects, dated July 13,2017 and shall be maintained at all times while the use continues.
	Vehicle Access
6.	Proposed Lot 1 shall have vehicle access from Longreach Road via the railway level crossing from Landsborough Highway generally as shown on plan no. 3 of the Approved Plans listed in Item 10 (Part B) of this Decision Notice, Plan Reference: 3, " <i>Proposed Lots</i> ", prepared by YD Projects, dated July 13, 2017 as "Access to Proposed Lot 1 from Landsborough Highway". The vehicle access shall be upgraded, if necessary, to accord with Schedule 1, Division 2: Standards for Roads, Carparking, Manoeuvring Area and Access, Section 2.3(1) and (2) of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
7.	Proposed Lot 2 shall have vehicle access from the "proposed driveway" from Barcaldine-Aramac Road generally as shown on plan no. 3 of the Approved Plans listed in Item 10 (Part B) of this Decision Notice, Plan Reference: 3 " <i>Proposed Lots</i> ", prepared by YD Projects, July 13, 2017. The vehicle access shall be designed and constructed in accordance with the Department of Transport and Main Roads standards and Schedule 1, Division 2: Standards for Roads, Carparking, Manoeuvring Areas and Access, Section 2.3(1) and (2) of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
8.	The location of the connection of the vehicle access from the Barcaldine-Aramac Road to Proposed Lot 2 shall be at chainage 1.7 km from the intersection of the Barcaldine-Aramac Road and the Capricorn Highway.
	Electricity Supply

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9.	Each proposed lot shall be connected to the reticulated electricity supply in accordance with the relevant standards required by the service provider.
	Stormwater
10.	Each proposed lot shall have stormwater collected and discharged in accordance with Schedule 1, Division 5: Standards for Stormwater Drainage, Section 5.1, of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
 	Filling and Excavation
11.	Any filling or excavation necessitated to meet the conditions of this approval shall be undertaken in accordance with Schedule 1, Division 1: Standards for Construction Activities, Section 1.1 of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards.
	Erosion Control
12.	Best practice soil erosion control techniques shall be used at the location of all works to be completed on the subject site in accordance with Schedule 1, Division 1: Standards for Construction Activities, Section 1.1 of the Barcaldine Shire Planning Scheme or to other accepted and Council endorsed engineering standards, and shall remain in place for the duration of construction.
13.	No construction shall take place until the appropriate erosion control and silt collection measures are in place as required by Condition 12 (above). Such erosion control and silt collection measures shall remain on-site throughout the construction period.
18 g	Timing of Works
14.	All works necessitated by the conditions of approval for the vehicle crossovers, stormwater drainage and connection to reticulated electricity shall be completed prior to the submission to Council of the Plan of Survey required by Condition 17, unless such works are bonded to the satisfaction of Council.
	Cost of Works and Services
15.	The cost of carrying out works and providing services to the subject site, as required by conditions of approval, shall be at the expense of the applicant.
· ·	Payment of Rates and Charges
16.	All outstanding rates and charges shall be paid to Council prior to the submission to Council of the Plan of Survey required by Condition 17.
	Plan of Survey
17.	The applicant shall submit a detailed Plan of Survey, prepared by a licensed surveyor, to Council for assessment and approval.
	Timing of Plan of Survey
18.	The Plan of Survey required by Condition 17 shall not be submitted to Council until the completion of the construction phase of the use in Item 13 (Part A) of this Decision Notice.

Attachment B

APPROVED PLANS















Solar Farm 1 Aramac 3.6MVA INSET B



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	YD Projects	•	staalord CY (2) ne mot staalord Cy (2)			Project / Part Number: YD-0916-DUN	Dunblane Solar Farm	Version: Drawn By:	July 13, 2017 AVV	July 13, 2017 GC		Client: Lot 72/SP136851	Dunblane Solar Farm		Designed By: Designed By:		FOR APPROVAL / QUOTATION	Notes: SCALE: 1:2000 A3				Cable Trav EZ-STRUT	484 × 100 NMEA 2	634 × 100 NMEA 2 034 × 100 NMEA 2	EW support (TBA)	DC Isolator	BARCALDINE REGIONAL COUNCIL	DIGITALLY STAMPED	Chana Amiliantian	Mind. Change to Development Approval (dated 27 February 2017) for: Development Permit – Material Change of Use:	"Combunity-Oriented Activity" - Public Utility" (9MWP Grid Connect Start Protovoltate Array) Development Permit - Reconfiguring a Lot:	Subdiviption – 1 Lot int > 2 Lots referred to in Council's Decision Notice	Approva/Date: 15 June 2018 Applicatich Number: 0.0411617-1	· DC Irunks	8			
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YD Projects	(c) YD Projects www.ydot.com.au Commercial in Confidence	Project / Part Number: YD-0916-DUN Description Dunblane Solar Farm	Version: Drawn By: July 13, 2017 Drawn By: Approved date: Approved by: July 13, 2017 GC	client: Lot 72/SP136851 Dunblane Solar Farm	Designed By: YD Projects	Status: FOR APPROVAL / QUOTATION Netes:	SUBJECT TO CHANGE FOR MVPS2200 (MVPS 1800 shown)	ment C	DINE REGIONAL COUNCIL	DIGITALLY STAMPED APPROVED PLAN	Hon: The set of the set o	rred to in Council's Decision Notice 15 June 2018 ber: DA121517-1	MVPS Details 2	13
									BARCAL		Change Applic Minor Change to Development Pr Community Ori Solar Photovolt Development Pl Subdivision - 1	ref Approval Date: Application Nur		





SMK CONSULTANTS surveying - irrigation - environmental - planning ABN 63 061 919 003 13th September 2017 (REVISED FOR NEW D.A.)

YellowDot Energy Pty Ltd PO Box 1441 Coorparoo DC QLD 4151

Dear Sir,

BARCALDINE REGIONAL COUNCIL

DIGITALLY STAMPED APPROVED DOCUMENT

Change Application: Minor Change to Development Approval (dated 27 February 2017) for: Development Permit - Material Change of Use: Community Oriented Activity" - "Public Utility" (9MWP Grid Connect Community Oriented Activity" - "Public Utility" (9MWP Grid Connect Other of fices: Goondiwindi, Solar Photovoltaic Array) Development Permit - Reconfiguring a Lot: Subdivision - 1 Lot into 2 Lots referred to in Council's Decision Notice

Approval Date: 15 June 2018 **Application Number:** DA121617-1

39 Frome Street PO Box 774 Moree NSW 2400 Ph 02 6752 1021 Fax 02 6752 5070 mark@smk.com.au

Gatton, Brisbane, Miles www.smk.com.au

Runoff Calculations for Proposed Solar Farm, Barcaldine

Method:

The overall aim of a stormwater management plan is to manage the extra run off typically caused by a developed site, and avoid overloading streams, drains etc. with increased flow rates. To achieve this result it requires that the rate of stormwater discharged from a developed site not exceed the pre-developed site discharge rate. It is intended that any increased stormwater runoff caused by an increase in impervious area be stored temporarily in a detention pond. Water is then to be released at a discharge rate that does not exceed the rate of discharge of the undeveloped site.

The time of concentration was calculated using the Australian Rainfall Runoff (Tc) formula, that is a function of area (Tc = $0.75 \text{ A}^{0.38}$). Using this formula, a time of concentration was found to be 28 minutes, and 30 minutes was adopted from the IFD. It must be noted that the impervious area of the solar farm will have a slightly shorter time of concentration, but as the site is being analysed as whole, 30 minutes was used for both calculations. The rational method will be used to determine the runoff from the site before and after the development. The 1 in 100-year storm event from the Barcaldine Intensity Frequency Duration Table for a 30minute event has an intensity of 125.6mm/hr (IFD Table attached). The total rain to fall in this 30 min event is therefore 62.8mm.

A. Calculation:

1) Existing Developed Catchment (Pre Developed Catchment)

Effective Lot Area

Total Lot Area: 30.0 ha (Currently all grassed – pre-developed site)

Total Lot Area not included as Buildings/Hardstand Areas (Land Only Area)

(Total Effective Area 300,000 m²) – (Roof Area/Hardstand Area 0 m²)

Runoff Coefficient Buildings/Hardstand C = 1.0Land C = 0.5 Discharge $Q_{100(P)} = CIA/360$ A = Area (ha) I = Rainfall Intensity (mm/hr) C = Runoff Coefficient $Q_{100(P)} = ((0.5 \text{ x } 30.0 \text{ ha}) + (1.0 \text{ x } 0 \text{ ha})) \text{ x } 125.6$ 360 $Q_{100(P)} = 5.23$ cumec 2) Proposed Developed Catchment (Post Developed Catchment) (Hardstand areas have been taken as the entire proposed development of lots 3 Proposed Hardstand Areas and 4, given that the lots are to be constructed on a compacted crusher dust pad.) Proposed Lot 4 $62,000 \text{ m}^2$ Proposed Lot 4 58,000 m² Total Roof Area 120,000 m² Proposed Landscaped (Grassed) Area (Effective lot area: 300,000m²) – (Total Hardstand Area: 120,000m²) Total lot area not included as Buildings or Impervious Hardstand (Land Only Area) 180,000 m² C = 1.0Runoff Coefficient Buildings & Hardstand C = 0.5Land $Q_{100(P)} = CIA/360$ A = Area (ha) I = Rainfall Intensity (mm/hr) C = Runoff Coefficient $O_{100(P)} = ((0.5 \times 18ha) + (1.0 \times 12ha)) \times 125.6$ 360 $Q_{100(P)} = 7.33$ cumec Volume of water required to be delayed from entering system during the 6-minute storm event. Vol. Water (cum) = $(7.33 \text{ cumec} - 5.23 \text{ cumec}) \times 30 \text{min}$ = 3,780 cum = 3.780,000 litres 3) Proposed Detention Pond To Store Storm Water Runoff The client has advised SMK Consultants that a detention pond is preferred as a temporary detention option as opposed to tanks. Given that the capacity of detention needed is 3,780,000 litres it is recommended that the south west section of 'proposed lot 2' be used as detention area. This area has been chosen since the block typically drains to the south west. Given the recommended location of the detention pond, it is advised that the hardstand pad of the solar farm be land levelled to drain east to west (due to the solar farm development being located on the southern boundary).

The detention basin can be a variety of sizes/dimensions providing it can capture the whole 3,780,000 litres.

SMK Consultants has recommended a pond water depth of 0.5m with 0.5m freeboard and 3:1 batters. Given these dimensions a minimum footprint area of 7,560m³ will be needed. A bywash will also be necessary given flows greater than the one used in the calculations. Dimensions of the proposed pond can be seen below.



Given a max depth of 0.5m it is recommended that 4 x 500mm pipes be used as drain pipes, to allow a maximum of $1.73m^3$ /s to be released from the site. Any flows greater than this will use the 32m bywash, for the predeveloped flow of $5.23m^3$ /s the bywash will run at 150mm of water depth across its face. It is important to note that pipe sizes are a function of head above natural surface. If a different size pond is used with a different top water level, pipes must be redesigned to make sure the maximum flowrate of the predeveloped site is not exceeded when draining the developed site.

SMK was provided with limited survey over the site, particularly along the western boundary. It is recommended that extra survey be done, to identify areas where a diversion bank may be needed to direct stormwater to the onsite detention pond.

I believe the proposed pond and the pipe sizes shown achieve the requirements of reducing the average discharge from the site to that existing prior to development.

Yours faithfully,

Mark Carrigan

Mark Carrigan B.Eng (CIVIL). GradIEAust CID – Surface (IAL) Civil Engineer/Irrigation Consultant SMK Consultants

Attachment 1: Barcaldine – IFD Table

				10	20	50	100
Duration	1 Year	2 Years	5 Years	Years	Years	Years	Years
1 min	120.0	138.0	192.0	228.0	264.0	312.0	354.0
2 min	99.0	114.0	162.0	198.0	231.0	279.0	318.0
3 min	94.0	108.0	152.0	184.0	216.0	260.0	294.0
4 min	88.5	102.0	145.5	174.0	204.0	244.5	276.0
5 min	85.2	98.4	138.0	166.8	193.2	230.4	260.4
6 min	82.0	94.0	133.0	159.0	185.0	220.0	247.0
10 min	70.2	80.4	113.4	135.6	157.2	186.0	207.6
15 min	59.6	68.4	96.4	115.2	133.6	157.6	176.0
30 min	41.6	47.8	67.4	80.8	94.2	111.8	125.6
1 hour	26.7	30.7	43.6	52.6	61.6	73.9	83.6
2 hour	16.3	18.8	26.8	32.5	38.3	46.3	52.8
3 hour	12.1	13.9	19.9	24.2	28.6	34.7	39.6
6 hour	7.2	8.3	12.0	14.6	17.3	21.0	24.0
12 hour	4.3	5.0	7.3	8.9	10.5	12.8	14.6
24 hour	2.6	3.0	4.4	5.5	6.5	7.9	9.0
48 hour	1.6	1.8	2.7	3.3	4.0	4.9	5.6
72 hour	1.1	1.3	2.0	2.5	3.0	3.6	4.1

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<u>Attachment 2: Barcaldine – Solar Farm Concept Plan</u> <u>REVISED 13-9-17 FOR NEW D.A.</u>

ojects	Farm brawn By: AVD Approved by: RLM	Farm	ŋ	erview	m
YD Projects (c) YD Projects www.ydot.com.au commercial in Confider	Project / Part Number: Project / Part Number: Description Dunblane Solar Verson July 7, 2017 July 5, 2017 July 5, 2017	Dunblane Solar Designed By: YD Projects Status: Status: Mores:	SCALE 1:10000 A	. Lot ov	



Attachment 3: Barcaldine - Contour Map With Proposed Detention Pond Location



Attachment D

Extract from the *Planning Act 2016* Relating to Appeal Rights

Chapter 6 Dispute resolution

Part 1 Appeal rights

229 Appeals to tribunal or P&E Court

(1) Schedule 1 states-

- (a) matters that may be appealed to—
 - (i) either a tribunal or the P&E Court; or
 - (ii) only a tribunal; or
 - (iii) only the P&E Court; and
- (b) the person-
 - (i) who may appeal a matter (the appellant); and
 - (ii) who is a respondent in an appeal of the matter; and
 - (iii) who is a co-respondent in an appeal of the matter; and
 - (iv) who may elect to be a co-respondent in an appeal of the matter.
- (2) An appellant may start an appeal within the appeal period.
- (3) The appeal period is-
 - (a) for an appeal by a building advisory agency—10 business days after a decision notice for the decision is given to the agency; or
 - (b) for an appeal against a deemed refusal—at any time after the deemed refusal happens; or
 - (c) for an appeal against a decision of the Minister, under chapter 7, part 4, to register premises or to renew the registration of premises—20 business days after a notice is published under section 269(3)(a) or (4); or
 - (d) for an appeal against an infrastructure charges notice—20 business days after the infrastructure charges notice is given to the person; or
 - (e) for an appeal about a deemed approval of a development application for which a decision notice has not been given—30 business days after the applicant gives the deemed approval notice to the assessment manager; or
 - (f) for any other appeal—20 business days after a notice of the decision for the matter, including an enforcement notice, is given to the person.

Note-

See the P&E Court Act for the court's power to extend the appeal period.

- (4) Each respondent and co-respondent for an appeal may be heard in the appeal.
- (5) If an appeal is only about a referral agency's response, the assessment manager may apply to the tribunal or P&E Court to withdraw from the appeal.
- (6) To remove any doubt, it is declared that an appeal against an infrastructure charges notice must not be about—
 - (a) the adopted charge itself; or
 - (b) for a decision about an offset or refund-
 - (i) the establishment cost of trunk infrastructure identified in a LGIP; or
 - (ii) the cost of infrastructure decided using the method included in the local government's charges resolution.

230 Notice of appeal

- (1) An appellant starts an appeal by lodging, with the registrar of the tribunal or P&E Court, a notice of appeal that—
 - (a) is in the approved form; and
 - (b) succinctly states the grounds of the appeal.
- (2) The notice of appeal must be accompanied by the required fee.
- (3) The appellant or, for an appeal to a tribunal, the registrar, must, within the service period, give a copy of the notice of appeal to---
 - (a) the respondent for the appeal; and
 - (b) each co-respondent for the appeal; and
 - (c) for an appeal about a development application under schedule 1, table 1, item 1—each principal submitter for the development application; and

- (d) for an appeal about a change application under schedule 1, table 1, item 2—each principal submitter for the change application; and
- (e) each person who may elect to become a co-respondent for the appeal, other than an eligible submitter who is not a principal submitter in an appeal under paragraph (c) or (d); and
- (f) for an appeal to the P&E Court-the chief executive; and
- (g) for an appeal to a tribunal under another Act---any other person who the registrar considers appropriate.
- (4) The service period is—
 - (a) if a submitter or advice agency started the appeal in the P&E Court—2 business days after the appeal is started; or
 - (b) otherwise-10 business days after the appeal is started.
- (5) A notice of appeal given to a person who may elect to be a co-respondent must state the effect of subsection (6).
- (6) A person elects to be a co-respondent by filing a notice of election, in the approved form, within 10 business days after the notice of appeal is given to the person.
- (7) Despite any other Act or rules of court to the contrary, a copy of a notice of appeal may be given to the chief executive by emailing the copy to the chief executive at the email address stated on the department's website for this purpose.

231 Other appeals

- Subject to this chapter, schedule 1 and the P&E Court Act, unless the Supreme Court decides a decision or other matter under this Act is affected by jurisdictional error, the decision or matter is non-appealable.
- (2) The Judicial Review Act 1991, part 5 applies to the decision or matter to the extent it is affected by jurisdictional error.
- (3) A person who, but for subsection (1) could have made an application under the *Judicial Review Act 1991* in relation to the decision or matter, may apply under part 4 of that Act for a statement of reasons in relation to the decision or matter.
- (4) In this section
 - decision includes—
 - (a) conduct engaged in for the purpose of making a decision; and
 - (b) other conduct that relates to the making of a decision; and
 - (c) the making of a decision or the failure to make a decision; and
 - (d) a purported decision; and
 - (e) a deemed refusal.

non-appealable, for a decision or matter, means the decision or matter-

- (a) is final and conclusive; and
- (b) may not be challenged, appealed against, reviewed, quashed, set aside or called into question in any other way under the *Judicial Review Act 1991* or otherwise, whether by the Supreme Court, another court, any tribunal or another entity; and
- (c) is not subject to any declaratory, injunctive or other order of the Supreme Court, another court, any tribunal or another entity on any ground.

232 Rules of the P&E Court

- A person who is appealing to the P&E Court must comply with the rules of the court that apply to the appeal.
- (2) However, the P&E Court may hear and decide an appeal even if the person has not complied with rules of the P&E Court.