

NORTHERN CAPE PROVINCIAL OFFICE Lower Orange Water Management Area Private Bag X5912, Upington, 8800 Tel: (054) 338-5800, Fax: (054) 334-0205, www.dwa.gov.za

Enquiries: M. Mei

Tel: 054 338 5800

Fax: 054 334 0205

E-mail: meim@dwa.gov.za

24 May 2016

Humansrus Solar 3 (Pty) Ltd PO BOX 51060 Waterfront Western Cape 8002

Attention: Mr. David Peinke

APPLICATION FOR WATER USE AUTHORISATION IN TERMS OF SECTION 40 OF THE NATIONAL WATER ACT, 1998 (ACT NO.36 OF 1998): PROPOSED HUMANSRUS SOLAR 3 FACILITY BY HUMANSRUS SOLAR 3 (PTY) LTD: NORTHERN CAPE PROVINCE

The Department confirms receipt of your Water Use Licence Application received on 05 April 2016 by the Orange Proto-CMA office:

- This Department will however not be able to process the above Application until a letter confirming that the above mentioned project forms part of the DoE preferred bidders.
- > The Department hereby request that a complete Application be submitted upon approval of preferred bidder status.

Kindly note that you application will be assessed as soon as the above confirmation is available.

Please also note that any use of water without authorization is unlawful as it is in contravention of the National Water Act, 1998 and is punishable by law.

Yours sincerely,

CHIÉF EXECUTIVE OFFICER (ACTING): ORANGE PROTO CMA

DATE: 24/05/16

DEPT. VAN WATER & SANITASIE

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2016 -05- 24

LOWER CENT &

WATER MANACUETAT AREA

PRIVATE DAG XECK VERNESOR

DEPT. OF WATER & SAUNATION

Humansrus Solar 3 (Pty) Ltd 101, 1st Floor, West Quay Buildings 7 West Quay Road, Waterfront Cape Town 8000

18 March 2016

Department of Water and Sanitation Attention: Melinda Mei, Shaun Cloete

To whom it may concern,

RE: Application for Water Use License (WULA) for the solar PV development; Humansrus Solar 3 (Pty) Ltd. on the property; Farm 147 Humansrus, near Prieska; Northern Cape province.

Humansrus Solar 3 (Pty) Ltd. as an Independent Power Producer (IPP) is proposing the establishment of a commercial solar energy facility on a site within the Northern Cape to be known as Humansrus Solar 3, of size 75 MW. The proposed development site is located on the Farm 147 Humansrus, which is situated within the jurisdiction of the Siyathemba local Municipality in the Northern Cape Province.

The purpose of this facility is to generate electricity from a renewable energy source (i.e. solar radiation) to provide power to the national electricity grid.

"Water Use Licence Application" (WULA) initial submission

Humansrus Solar 3 (Pty) Ltd. submitted an initial WULA with the following documentation included in this initial submission, as illustrated in the following table. It should be noted that an aquatic study has been done. A Storm water management report has been done and will be included in the environmental impact phase.

DWS application form	Document	Comment
DW758	DW758 NWA – Humansrus Solar 3	Signed document was submitted.
DW763	DW763 NWA Section 21I – Humansrus Solar 3	Signed document was submitted.
DW768	DW768 NWA section 21(i) - Humansrus Solar 3	Signed document was submitted.
DW901	DW901 Property – Humansrus Solar 3	Signed document was submitted.
DW902	DW902 Property owners - Humansrus Solar 3	Signed document was submitted.
N/A	Power of Attorney	Signed document was submitted.
N/A	ID copy David Peinke	Director South African ID
N/A	Title deed	Farm 147 Humansrus, Near Prieska, Northern Cape.
N/A	Lease agreement (Option agreement)	Humansrus Solar 3 lease and option agreement on said property.
N/A	Environmental Scoping Assessment report	Applicable section on water and water use was incorporated.

N/A	Cover Letter	Submitted as part of application.
N/A	Aquatic (freshwater) study report and part of Scoping EIA_Engineering report; water related items.	Submitted as part of application

It should be noted that on submission of the WULA no detail designs are finalised and therefore the crossing of washes, impeding of drainage lines and abstraction of water are yet to be determined and finalised. As far as possible any of these activities will be eliminated and the impact thereof mitigated within the detail designs.

This initial application therefore was based on the potential that the proposed facility would trigger water use activities as identified in the above table. We foresee that the detailed designs (to be completed on preferred bidder status) will shed light and give clarity on the detailed activities required for water use licencing.

It should be noted that at the time of the initial WULA submission an Environmental Authorisation has not yet been received and will therefore be submitted to the Department together with the complete application. Please note that according to communication with DWS a complete application will be submitted once preferred bidder status under the REIPPP program is obtained.

Correspondence details

For any correspondence with Humansrus Solar 3 by DWS, please make use of the particulars provided in the following table.

#	Item	Note
1	Project	Humansrus Solar 3 (Pty) Ltd.
2	Attention	Director
3	Address	101, 1 st Floor, West Quay Buildings 7 West Quay Road, Waterfront Cape Town 8000
4	Reference person	David Peinke (on behalf of Humansrus Solar 3 (Pty) Ltd.)
	Contact person	Thys van der Hout
5	Contact number	086 124 2327
6	Email	thys@solek.co.za; johannes@solek.co.za; david@atlanticep.com;



REGISTRATION/LICENSING PART 1

COMPANY, BUSINESS, PARTNERSHIP OR COMMUNITY, NATIONAL OR PROVINCIAL GOVERNMENT

Inc	dicate the nature of this			
	plication:		☐ Formal amendment	
			Registration Number	
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	pplication for: ark one block with an X)		Company, business, partners)	ership or community (complete part 3,5,6,7 and
	and septimental in the part of			ernment (complete part 4,5,6,7 and 8 excl. 8.1.2
DAE	RTICULARS OF THE COM	IPANY	BUSINESS, PARTNERS	SHIP OR COMMUNITY
3.1			partnership or community:	
	Humansrus Solar 3 (Pty) Ltd			
	Humansius Solai S (F ty) Ltd	V-10-10-10-10-10-10-10-10-10-10-10-10-10-		
3.2	The second secon		name of company, busines	ss, partnership or community:
3.2	The second secon		name of company, busines	ss, partnership or community:
3.2	The second secon		name of company, busines	ss, partnership or community: © 07 Private Company (Pty) Ltd
	Trading name if differe	nt from	06 Public Company (Ltd) 08 Article 21 (Association Inc. under Article 21 of the Company	
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	Trading name if differe	nt from	06 Public Company (Ltd) 08 Article 21 (Association Inc. under Article 21 of the Company Act No. 61 of 1973)	 □ 07 Private Company (Pty) Ltd □ 09 Limited By Guarantee □ 11 External Company under article 21 of the Company Act
	Trading name if differe	nt from	06 Public Company (Ltd) 08 Article 21 (Association Inc. under Article 21 of the Company Act No. 61 of 1973) 10 External Company	 ☑ 07 Private Company (Pty) Ltd ☐ 09 Limited By Guarantee ☐ 11 External Company under article 21 of the Company Act No. 61 of 1973
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3.5	Date established: (ccyy/mm/dd)	2	0	1	5	0	7	2	7			
3.6	Country where established:	Re	epub	lic of	Sou	ıth A	frica	1				
3.7	VAT registration number:											

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4.1	National Depart	ment:					West 18	
	N Desidential D							
4.2	a) Provincial De	epartment:						
	b) Province:							
5.	APPLICANT CO	NTACT DETAI	ILS					
5.1	Postal Address:							
	PO BOX 704						14	
	St							
	GREENPOINT							
	WESTERN CAPE						Postal Code	8 0 0 1
1237(27)		4 10 100		100				
5.2	Street Address (only if different from p	ostal address):				
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5.3	Area/cell code	ne number durin		Number	4 1 8	2 5 9 6	Ext	
	Alternative cont	act number		Number				
	Area/cell code		0 8 6	Number	1 2 4	2 3 2 7	Ext	
5.4	E-mail							
		2						
6.	CONTACT PERS	SON DETAILS						
6.1	Title	MNR					ė	
6.2	Name	THYS						
6.3	Surname	VAN DER HOUT						
6.4	Telephone							
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6.5	Cell Phone Nun	IDEI			6 0 4	7 2 5 0	I	
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	Area/cell code		0 7	Number Number	6 0 4	7 2 5 0	Ext	
	Area/cell code	thys@solek.co.za		Number	6 0 4	7 2 5 0	Ext	

Declaration by applicant (or person who was granted power of attorney by the applicant)

Surname of delegated person:																3	Γitle	9:											
P E I N K E			I														М		R										
Initials:	D	М																											
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Passport Number: (if not a holder of South African ID) Expiry Date (ccyy/mmdd):]														
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Designation of signatory														-	Date	(C	суу	/m	ım/c	dd)									

It is a criminal offence to provide information that is false or misleading.

	LIST OF P	ART 2 DOCUMENT	TS (WAT	ER USE RELAT	ED FORMS)	
	Mark with an X which	of the following do	cuments l	nave been submi	tted with this applicat	ion
	□ DW760 NWA-Sect	tion 21(a)	\boxtimes	DW768 NWA-Section	1 21(i)	
	□ DW761 NWA-Sect	tion 21(b)		DW780 NWA-Section	21(h)	
	☐ DW762 NWA-Sect	tion 21(b)		DW805 NWA-Section	n 21(j)	
		tion 21(c)		DW806 NWA-Section	1 21(k)	
	☐ DW764 NWA-Sect	tion 21(d)	\boxtimes	DW901 Property or p	roperties where water use o	ccurs
	☐ DW765 NWA-Sec	tion 21(e)	\boxtimes	DW902 Details of pro	pperty owner	
	☐ DW766 NWA-Sec	tion 21(f)		DW903 Actual/Monit	ored waste discharge details	NWA-Section 21(f/h)
	☐ DW767 NWA-Sec	tion 21(a)		DW904 Actual/Monit	ored waste discharge details	NWA-Section 21(e/g
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Surname		Initials	
Position / Rank			
Signature	Date (ccyymmdd)		



Registration / Licensing

Part 2

Section 21(c) of the National Water Act

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water.

For these structures, please complete form DW762

1.	GENERAL INFORMATION	مع مدم ما در مالدر	/ماطممالت	avallahla							
1.1	Mark the applicable option(s) with an X and/or complete det Have you already registered a water use with the	alls where ap	plicable/	avaliable.		-				 D	☑ No
1.1	Department of Water Affairs and Forestry?	Reg	stration I	Number:							
	Soparation of Material and Telescopy				T						
		Wat	er Use N	umber:							
		Lice	nce Rela	ted WU							
		RLA	Referen	ce							
		NRV	VU Licer	nce Numbe	er						
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		RI A	Busines	s Unit							
			T T			T	T				
	(NRWU = National Register of Water Us	e; RLA = Re	sponsible	e Licensino	g Auth	ority; W	/U = W	ater Use)		
1.2	Applicant Type (mark only one block with X)										
	Individual (complete 1.3)	lata d d\		Provincial Water Ser							
	 ☐ Company, business, partnership or community (comp ☐ National Department (complete 1.5) 	iete 1.4)		Water Use							
1.3	If the applicant is an individual										
1.3.1	Title Surname							Initi	als		
-		For office u	se only							 	
	Allocated Reg. No.		WUN								

	South African ID (if holder of South African	iuj aiternati	very Passport Nu	nber:		ĺ	-		
	ID Number or Passport Number								
	Passport Expiry Date (ccyymmdd)								
	Passport Country Of Issue								
1.4	If the applicant is a company, business, par	rtnership or	community:						
1.4.1	Name of company, business, partnership or	community:							
	HUMANSRUS SOLAR 3 (PTY) LTD								
1.4.2	Business Enterprise Registration Number	1 5	2 5 7 0 3	3 2 1	0 7				
1.4.3	Date Established (ccyymmdd)	2 0	1 5 0 7 2	7					
	Country Where Established	RSA							
1.5	If the applicant is a National Department:								
1.5.1	National Department Name:								
1.6	If the property owner is a Provincial Depart	ment:							
1.6.1	Province:								Material III II Comment
1.6.2	Provincial Department Name:			uu					
1.7	If the applicant is a Water Services Provide	er:							
1.7.1	Name of WSP:								
1.8	If the applicant is a Water User Association	16							
1.8 1.8.1	If the applicant is a Water User Association Name of WUA:	1:					*		
	Name of WUA:		ion by an	olicant					
1.8.1	Name of WUA:	eclarat	ion by app	olicant					
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It is a criminal offence to provide information that is false or misleading.

2.	SUCCESSION/TRANSFER AND SOURCE PA	ART 2 DETAILS			
2.1	Is this a succession Related Water Use? (Mark only one box with an X)	☐ Yes			
2.2	If yes, complete the following source details:				
2.3	Source Register Number		WU Number		
	Source Register Number		WU Number		
	Source Register Number		WU Number		
3.	NATURE OF ACTIVITY (mark one category	with X and enter any	/ details required)		
3.1	Registration of (mark only one block with X)		g flow (complete part 4,5,7 g flow (complete part 4,6,7		
4.	WATER RESOURCE INFORMATION				7/1
4.1	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X)		□ Wetland	□ Fve	
4.1	Name of water source (watercourse, surface water or Surface Water	estuary)	☐ Wetland	☐ Eye	
4.1 4.2	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) ☑ River or stream ☐ Spring	☐ Estuary	☐ Wetland	☐ Eye	
4.1 4.2 4.3	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) ☑ River or stream ☐ Spring Quaternary Drainage Region	☐ Estuary	☐ Wetland	☐ Eye	
4.1 4.2 4.3 5.	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) River or stream Spring Quaternary Drainage Region IMPEDING THE FLOW IN A WATERCOURS Geographic location of the impedance (in one format of	☐ Estuary		☐ Eye	
4.1 4.2 4.3 5.	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) ☐ River or stream ☐ Spring Quaternary Drainage Region IMPEDING THE FLOW IN A WATERCOURS Geographic location of the impedance (in one format or stream) Solution of the impedance (in one format or stream) Company Drainage Region (in one format or stream)	Estuary Estuary E Only) S .	° or [
4.1 4.2 4.3 5. 5.1 Latitude	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) ☐ River or stream ☐ Spring Quaternary Drainage Region IMPEDING THE FLOW IN A WATERCOURS Geographic location of the impedance (in one format or stream) Solution of the impedance (in one format or stream) Company Drainage Region (in one format or stream)	Estuary Estuary E Only) S .	° or	3 0	
4.1 4.2 4.3 5. 5.1 Latitude	Name of water source (watercourse, surface water or Surface Water Type of water source (mark with an X) ☐ River or stream ☐ Spring Quaternary Drainage Region IMPEDING THE FLOW IN A WATERCOURS Geographic location of the impedance (in one format or see S	Estuary Estuary E Only) S .	° or [3 0	

	a)	Height of struct	ıre*																	
		* "Height" is th													met	res				
		general top l	e vertical o		oetweer	the lo	west d	ownstre	am gr	ound el	evation	on the	struc	ture ar	nd the	e cres	st leve	l or the)	
	b)	Width of structu	re (measur	ed at wide	est part o	of the s	structur	e)							met	res				
	c)	Length of struct	ure												met	res				
	d)	Materials used	in building	the structu	re (list)															
5.4	Enter t	the number of imp	ending stru	ctures on	this prop	perty														
6. I	DIVER	TING THE FL	A NI WC	WATER	COUR	SE														
5.1		aphic location of t			diversion	ı (in oı	ne form	at only)												
Latitude	S	0	,		" or	S		Ŀ				° 01	r S			•				
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	b) G	eographic location	of the end	of the div	ersion (i	n one	format	only)												
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6.2	Name	of Diversion struc	ture										***************************************				···········			
6.3	Divers	sion structure																		
	a)	Height of structur	e*												me	tres				
		* "Height" is the general top leve			tween t	he low	est do	vnstrea	m grou	ınd ele	ation o	on the s	structu	re and	I the o	crest	level (or the		
	b)	Width of structure	e (measure	d at widest	t part of	the str	ucture								me	etres				
	c)	Length of diversion	on along the	e watercou	ırse (ma	ırk unit	ts with	X)						kilom	eters] me	tres	
	d)	Materials used in	building th	e structure)															
						11 1														

.1	Description of activity (mark only one block v	vith X)			
	☐ Diversion through a pipe	□ Diversion through a can	al 🔲 Ir	npeding structure	
	Other diversion (specify below)				
2	Start date of activity (ccyymmdd)				
3	Flow rate before diversion or impedance		cubic metres per second		
4	Flow rate after diversion or impedance		cubic metres per second		
.5	Purpose of the activity (e.g. "to continue wit	th mining")			
.6	If the activity is mining-related, complete the	following			
	e) Distance of the mining-related activity			31	metres
	f) Distance of the mining-related activity	y from the watercourse after imped	dance or diversion		metres
	g) Depth of undermining of watercourse	e, if applicable			metres
	h) Mining method used in c), (if any)				
ı.	DESCRIPTION OF WATER USE SEC	CTOR(S)			
.1	Where applicable select one more of the follows	owing water use sectors			
	Agriculture: Aquaculture	3	☐ Industry (Urban)		
	☐ Agriculture: Irrigation		☐ Mining		
	Agriculture: Watering Livestock		□ Power Generation		
	☐ Evaporation (Storage)		Recreation		
	☐ Industry (Non-urban)		□ Water Supply Service		
	☐ Conservation			4	

Water use started or	(ccyymmdd)		ř.
If this is an existing v	vater use, mark with X and enter permit numbe	rs \square	
	Permit number		Date (ccyymmo
Permit No.			
		s water use	
South African Act:	[E.g. National Water Act (Act No.	Applicable section of the	act [E.g. Section 21]
South African Act: Date From (ccyymmdd)	[E.g. National Water Act (Act No.	Applicable section of the 36 of 1998)] Government Notice No.	
Date From	[E.g. National Water Act (Act No.	Applicable section of the 36 of 1998)]	
Date From (ccyymmdd) Date To (ccyymmdd)	[E.g. National Water Act (Act No.	Applicable section of the 36 of 1998)] Government Notice No. Government Notice Date	
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Date From (ccyymmdd) Date To (ccyymmdd) Applicable Section O Date From (ccyymmdd) Date To (ccyymmdd) Applicable Section C Date From (ccyymmdd) Date To (ccyymmdd)	f The General Authorisation f The General Authorisation f The General Authorisation	Applicable section of the 36 of 1998)] Government Notice No. Government Notice Date (ccyymmdd) Government Notice Date (ccyymmdd) Government Notice Date (ccyymmdd)	

(Version 1.1, 16 September 2009)

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Property Name	Surveyed Property		Unsurveyed property	Property Date	Property Relationship Date
				From:	To:
FARM 147 HUMANSRUS	Title Deed Number	128367/1978	Sumame of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code	Ç06000000000147000 0000	Initial of the Leader of Village, Community or Tribal Authority		
	Property Number	147	Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)		
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority		
	Property Number		Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)		
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority		
	Property Number		Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)		
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority		
ŧψ	Property Number		Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)		,
			Takal Authority/Council (if applicable)		

11.	FOR OFFICE USE ONLY																	
11.1	List of attached forms and documents											1000000						
11.1.1	Specify the number of other documents submi	tted	with th	nis form	n, if an	y												
	☐ Motivation for the proposed diversion or in	nped	lance															
	☐ Environment impact assessment																	
	☐ Certified copy of agreement from each pro	opert	y owr	er invo	olved, i	f mor	e tha	n one	ı									
11.1.2	Specify the other documents submitted with the	is fo	rm															
	Other: (specify)	D	W															
	Other: (specify)	D	W															
	Other: (specify)	D	W						1									
	Other: (specify)	D	W											T				
	Source Register number WO Numb	er	_	WU SI	alus io	be a	iioca	ieu	T T		Т	_		yymn	, , , , , , , , , , , , , , , , , , ,	Тарр	T	
	Source Register number WU Numb	er		WU St	atus to	be a	lloca	ted							ate (it	f app	licab	ile)
11.3	District Municipality																	
	District Municipality Name (if applicable)																	
11.4	Late Registration Penalty																	
	Is this a late registration?	Yes				lo												
	If yes, mark with an X, the applicable penalty to	be l	evied															
	☐ R300.00 OR																	
	☐ 10% (ten percent) of the annual water use	char	ge ou	tstandi	ng at t	ne da	te of	regist	ratio	n whi	ch ev	er is	greate	er				
	Specify the penalty amount payable																	
	☐ Waive penalty																	

DW763

Water Use Register Number Received by: Sumame Initials Position / Rank Signature Captured on NRWU database (coyymmdd) Capured by: Sumame Initials Date stamp of receiving office	File number		
Surname Initials Position / Rank Signature Captured on NRWU database (ccyymmdd) Capured by: Surname Initials Signature	Water Use Register Number		
Position / Rank Signature Captured on NRWU database (ccyymmdd) Capured by: Surname Initials Signature	Received by:		
Signature Captured on NRWU database (ccyymmdd) Capured by: Surname Initials Signature	Surname	Initials	
Signature Captured on NRWU database (ccyymmdd) Capured by: Surname Initials Signature			
Captured on NRWU database (ccyymmdd) Capured by: Surname Initials Signature	Position / Rank		
(ccyymmdd) Capured by: Surname Initials Signature	Signature		
(ccyymmdd) Capured by: Surname Initials Signature			
Signature	(ccyymmdd)		
	Surname	Initials	
Date stamp of receiving office	Signature		
Date stamp of receiving office			
		-	Date stamp of receiving office
		L	



AND RESIDENCE OF THE PERSON NAMED IN COLUMN 1997	-			-
Registration	1	Lice	ns	ing

Section 21(i) of the National Water Act

Part 2

ALTERING THE BED, BANKS, COURSE OR CHARACTERISTICS OF A WATERCOURSE

SPECIAL NOTE

This form is not applicable for any structure that impedes or diverts flow. For these structures, please complete form DW763/775

	Mark the applicable option(s) with an X and/or complete det	Yes	****	io, a r	unabio.							 	\boxtimes	No
1.1	Have you already registered a water use with the		istratio	n Nu	mber:								_	
	Department of Water Affairs and Forestry?													
		vvat	er Use	Nurr	iber:					.9				
		Lice	nce R	elated	UW									
		RLA	Refe	ence										
		NR	WU L	cence	e Numb	er								
									1					
		RLA	A Busi	ness	Unit									
1.2	(NRWU = National Register of Water Use Applicant Type (mark only one block with X) ☐ Individual (complete 1.3) ☐ Company, business, partnership or community (comp		espons] Pr	icensir ovincia	ıl Dep	artme	ent (c	omple	te 1.6	5)			
	☐ National Department (complete 1.5)	lete 1.4)	ĺ		ater Us									
1.3	If the applicant is an individual									7		 T T		
1.3.1	Title Surname									_ 1	Initials			
_		For office u	160.0	alv								 		

		l) alternatively Passport Number:
	ID Number or Passport Number	
	Passport Expiry Date (ccyymmdd)	
	Passport Country Of Issue	
	If the applicant is a company, business, part	nership or community:
.1	Name of company, business, partnership or c	ommunity:
	Humansrus Solar 3 (PTY) LTD	
.2	Business Enterprise Registration Number	1 5 2 5 7 0 3 2 / 0 7
.3	Date Established (ccyymmdd)	2 0 1 5 0 7 2 7
	Country Where Established	RSA
	If the applicant is a National Department:	
.1	National Department Name:	
	If the applicant is a Provincial Department:	
3.1	Province:	
6.2	Provincial Department Name:	
	Kaba anniisant is a Water Consison Provider	
7.1	If the applicant is a Water Services Provider Name of WSP:	
	Materials According	
3 8.1	If the applicant is a Water User Association: Name of WUA:	
	name of thore	
	De	eclaration by applicant
Dele	Dete the words that are not applicable l/v	ve DAVID MICHAEL PEINKE (FULL NAME(S)
nere	Dete the words that are not applicable I/veby declare that the information provided by	
nere	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S)
here	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S)
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here	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S)
here	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S) by me/us in this application form is, to the best of my/our knowledge, true and
here	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S)
Sig	Dete the words that are not applicable I/veby declare that the information provided by	ve DAVID MICHAEL PEINKE (FULL NAME(S) by me/us in this application form is, to the best of my/our knowledge, true and

It is a criminal offence to provide information that is false or misleading.

2. \$	SUCCESSION/TRANSFER AND SOURCE									*********
	s this a "succession-in-title" related Water Use?	ĺ	☐ Yes							
(Mark only one box with an X)		NO							
2.2	f yes, complete the following source details									
2.3	Source Register Number			WU Numb	oer					
	Source Register Number			WU Numb	per					
- 3	Source Register Number			WU Numb	oer					
3.	WATER RESOURCE INFORMATION									
3.1	Name of water source									
	SURFACE WATER									
3.2	Type of water source									
	⊠ River/stream	☐ Spring	/Eye 🔲	Wetland] Dam		□ l	ake	
	Quaternary Drainage Region DETAILS OF WATER USE ACTIVITY									
4.										
4. 4.1	DETAILS OF WATER USE ACTIVITY									
4.	DETAILS OF WATER USE ACTIVITY									
4.1	DETAILS OF WATER USE ACTIVITY Name of alteration	eration								
4.1	Name of alteration Location of the alteration			0	Or [S	o			
4.1	Name of alteration Location of the alteration a) Geographic location of the start of the alteration	or S		0	or [S				
4. 4.1 4.2 Latitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration S y E y y y y y y y y y y y	or S			_					
4. 4.1 4.2 Latitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration S y E y y y y y y y y y y y	or S or E lee (Modified Clarke	· 	•	_					
4. 4.1 4.2 Latitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration S	or S or E e (Modified Clarke	· 	•	_					
4. 4.1 4.2 Latitude Longitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration E	or S or E de (Modified Clarketeration (if differenteration S	· 	wgs-84	or	E	0			
4. 4.1 4.2 Latitude Longitude Latitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration E	or S or E e (Modified Clarketeration (if different	e 1880) t from the start)	WGS-84	or [E				
4. 4.1 4.2 Latitude Longitude Latitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration E	or E or E e (Modified Clarketeration (if differenteration or S or E ape (Modified Clarketeration)	e 1880) t from the start)	wGS-84 °	or [E				
4. 4.1 4.2 Latitude Longitude Latitude Longitude	Name of alteration Location of the alteration a) Geographic location of the start of the alteration Baltum Type: Cap Cap Datum Type: Cap	or E or E e (Modified Clarketeration (if differenteration or S or E ape (Modified Clarketeration)	e 1880) t from the start)	wGS-84 °	or or	E		r (spec		

4.5	Purpose of the alteration	
4.6	The activity is (mark only one block with X)	emporary Permanent
4.7	Start date of the alteration	Start Date (ccyymmdd)
4.8	End date of the alteration (if temporary)	End Date (ccyymmdd)
4.9	Enter the number of alterations on this property	
5.	DESCRIPTION OF WATER USE SECTOR(S)	
5.1	Where applicable select one or more of the following water of	use sectors
	Agriculture: Aquaculture	☐ Industry (Urban)
	Agriculture: Irrigation	Mining
	Agriculture: Watering Livestock	□ Power Generation
	☐ Evaporation (Storage)	Recreation
	☐ Conservation	☐ Water Supply Service
6.	EXISTING AUTHORISATION	
6.1	Water use started on Date (ccyymmdd)	
6.2	If water use is an existing water use, mark with X and enter p	permit numbers
	Permit nu	mber Date (ccyymmdd)
	Permit No.	
	Permit No.	

		this water use	
South Afr	rican Act:	Applicable section of	the act
	[E.g. National Water Act (Act	No. 36 of 1998)]	[E.g. Section 21
Date From (ccyymmdd)		Government Notice No.	
Date To (ccyymmdd)		Government Notice Date (ccyymmdd)	
Date From (ccyymmdd) Date To		Government Notice No. Government Notice Date (ccyymmdd)	
(ccyymmdd) Applicable Sec	tion Of The General Authorisation	,,,	
Applicable Sector	tion Of The General Authorisation	Government Notice No.	
Applicable Sec	tion Of The General Authorisation		

(Version 1.1, 16 September 2009)

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PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DV
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Property Name	Surveyed Property		Unsurveyed property	Property Kelationsnip Date From: To:
FARM 147 HUMANSRUS	Title Deed Number	T28367/1978	Sumame of the Leader of Village, Community or Tribal Authority	
	Surveyor-General Cadastral Code	C060000000000147000 0000	Initial of the Leader of Village, Community or Tribal Authority	
	Property Number	147	Local Authority (if applicable)	
	Portion of property		Magisterial District (if applicable)	
			Tribal Authority/Council (if applicable)	
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority	
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority	
	Property Number		Local Authority (if applicable)	
	Portion of property		Magisterial District (if applicable)	
			Tribal Authority/Council (if applicable)	
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority	
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority	
	Property Number		Local Authority (if applicable)	
	Portion of property		Magisterial District (if applicable)	
			Tribal Authority/Council (if applicable)	
	Title Deed Number		Sumame of the Leader of Village, Community or Tribal Authority	
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority	
	Property Number		Local Authority (if applicable)	
	Portion of property		Magisterial District (if applicable)	
			Tribal Authority/Council (if applicable)	

8.	FOR OFFICE USE ONLY											 	
8.1	List of attached forms and docume	ents											
8.1.1	Specify the number of other docu	uments submitted w	ith this	form, if an	у								
		l alteration											
	☐ Environmental impact asse	essment											
	☐ Certified copy of agreement	t from each propert	y owne	r involved	if more	than o	ne						
	Specify the other documents sub	mitted with this forr	m (marl	with an X	.)								
	Other: (specify)	D	W										
	Other: (specify)	D	W			***************************************							
	Other: (specify)	D	W							umany en			
	Other: (specify)	D	W										
											(ccy		
8.3	District Municipality												
8.3	District Municipality District Municipality Name (if app	plicable)											
	District Municipality Name (if app	plicable)											
8.3 8.4		olicable)			No								3
	District Municipality Name (if applicate Registration Penalty	☐ Yes			No								
	District Municipality Name (if app Late Registration Penalty Is this a late registration?	☐ Yes			No								
	District Municipality Name (if app Late Registration Penalty Is this a late registration? If yes, mark with an X, the applica	☐ Yes	vied	standing a		te of re	gistratio	on whice	ch ever	r is gr			4
8.3 8.4	District Municipality Name (if application Penalty Is this a late registration? If yes, mark with an X, the application R300.00 OR	☐ Yes able penalty to be le	vied	standing a		te of re	gistratio	on whice	ch ever	· is gr			3

		DW768
File number		
Water Use Register Number		
Received by:		
Surname	Initials	
Position / Rank		
Signature		
	_	
Captured on NRWU database (ccyymmdd)		
Capured by:	Initials	
Surname	Illiudis	
Signature		
		Date stamp of receiving office
	L	Bute stamp of receiving since
		9 4



SUPPLEMENTARY WATER USE INFORMATION PROPERTY WHERE WATER USE OCCURS

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

- •Complete one DW901 form for each property impacted / applicable to a water use registration application.
- •Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1.	PROPERTY WHERE WATER	R USE(S) OCCURS		
1.1	Property where water use takes pl agricultural holding, farm, townsh		criptio	n as per the Deeds Act if applicable, or name of
	FARM 147 HUMANSRUS, NEAR F	PRIESKA, NORTHERN CAPE		
	Registration Date (ccyymmdd):			
1.2	Property Type (mark only one with a	an X)		
	☐ Agricultural Holding			Erf
	☐ Exclusive Use Areas (EUA)		\boxtimes	Farm
	☐ Sectional Scheme (To Obtain	EUA)		Sectional Scheme (to obtain units)
	☐ Sectional Scheme Unit			Township
	☐ Unspecified			Unsurveyed
	b) Local Authority	&/o		
	A Mandaladal District	&/oi		
	c) Magisterial District			*
	d) Tail at A athends (Consoli	&/o	•	
	d) Tribal Authority/Council			
1.4	If the property type is not equal to	unsurveyed, complete the following	:	
	a) Deeds Office Ca	pe Town		
	b) Registration Division			
	c) Property No (i.e. Farm No./Erf No	o./Holding Area No./Scheme No.)	47	
	d) Portion of Property			
	e) Title Deed Number T2	8367/1978		

Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

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f) Surveyor-General Cadastral Code

Property No (i.e. Farm No./Erf No./Holding Area No./Sheme No.)

Portion Number

Major Code (Registration Division)

Minor code

** Perf padded with 0" A	mership of the property (mark only one with an X) ☐ Property owned by applicant (100% Share value) ☐ Property owned by applicant (Share value less than 100%) ☐ The property is communal land	NER RELATIONSHIP	Company, Business, Partnership or Community Property Owner Name Property Owner and Property Owner Share Value % Document Number Relationship Date	(Owner's Title Deed From: To:	SUSANNA CHRISTINA HUMAN		
dded 1	Ownership of the property (mark only one with an X) Property owned by applicant (100% Share value) Property owned by applicant (Share value less that	PROPERTY OWNER RELATIONSHIP			3		
5 Property	6 Owners	PROP	ndividual (Identity Number or	assport Number)	3710090031080		

Page 2

	Full names														Sur	name			
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	Cianatura								Dat	e (cc	cyy/mm	n/dd)		Т	humbpr	nt (only	if requ	ested)	
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eposition / Ragnature aptured on aptured by: urname iitials ignature	NRWU data		yymmd	d)												Date s	tamp o	of receivin	g office
Position / Ra	NRWU data		yymmd	d)									Initial	S		Date s	tamp o	of receiving	g office
Position / Raignature aptured on aptured by: urname initials	NRWU data		yymmd	d)									Initial	s		Date s	tamp o	of receivin	g office



SUPPLEMENTARY WATER USE INFORMATION DETAILS OF PROPERTY OWNER

Should more than one property owner be applicable to a 'property where water use occurs', an additional DW902 must be completed for each additional property owner.

1.	DETAILS OF PROPERTY	OWNER		
1.1	Nature of property owner (mark onl ☐ Individual (complete 1.2) ☐ Company, business, partnership ☐ National Department (complete 1.2)	or community (complete 1.3)	 □ Provincial Department (complete 1.5) □ Water Services Provider (complete 1.6) □ Water User Association (complete 1.7) 	
1.2 1.2.1	If property owner is an individual Suma HUMAN me		Maiden Name Christina Susanna	
	Initials C S	Title MRS	Position or official status OWNER	
	Marital Status (mark only one):	☐ Married In Community Of Prope☑ Unmarried	perty Married Out Of Community Of Property	
1.2.2	If holder of South African ID: ID Number	3 7 1 0 0 9 0 0	0 3 1 0 8 0	
1.2.3	If not holder of South African ID: Passport No. Expiry Date (ccyymmdd)			
-	Country of issue	hudaaa madaambin oo oommuu	nih	
1.3 1.3.1	Name of company, business, parti	y, business, partnership or commun nership or community:	mry.	
1.3.2	Trading name if different from nan	ne of company, business, partnership o	or community:	
1.3.3	Type of Enterprise (mark only one	with an X)		
1.0.0	☐ 06 Public Company (Ltd)	☐ 07 Private Company (F	(Pty) Ltd	ction 21
	09 Limited By Guarantee	☐ 10 External Company	· · · · · · · · · · · · · · · · · · ·	
	20 Transvaal Ordinance	21 Incorporated (Inc)	22 Unlimited	
	23 Close Corporation (CC)	☐ Parastatal	☐ Trust	
			ools, Community Groups, etc.) excluding Trust & Parastat	-11

D. L. Calabrata at /	ريـ <u>۱</u>								
Date Established (ccyymmo	10)								
Country Where Established	ţ	Rr							
If the property owner is a N	ational Departmen	ıt:							
National Department Name:		Hame Commence							
If the property owner is a P	rovincial Departm	ent:							
Province:									
Provincial Department Name	<u> </u>								
If the property owner is a V	Vater Services Pro	vider:							
Name of WSP:									
If the property owner is a V	Vater User Ássocia	ation:				-	ji		
Name of WUA:									
Postal Address:									
Postal Address:							Postal C	Code	
Postal Address: Street Address (only if diff	erent from postal	address):				Postal C	Code	
	erent from postal	address):				Postal C	Code	
	erent from postal	address):				Postal C	Code	
	erent from postal	address):						
	erent from postal	address):				Postal C		
Street Address (only if diff):						
	er During Office H	ours): 6 Number	1 2 4	2 3	2 7	Postal (

	Property owner or delegated person:	
	Surname HUMAN	
		~
	Initials CS Title MRS	
	ID number 3 7 1 0 0 9 0 0 3 1 0 8 0	32
	if not a holder of South African ID:	
	Passport No.	
	Expiry Date	
	(ccyymmdd)	
	Country of issue	
	Position or official status:	
	LAND OWNER	
	I declare that the applicant defined in this application has lawful access to the property and carry out the water use a	activity
	activities related to this application. Signature Date (ccyymmdd) Thumbprint (only if request	
	activities related to this application.	
	activities related to this application. Signature Date (ccyymmdd) Thumbprint (only if request	
	activities related to this application. Signature Date (ccyymmdd) Thumbprint (only if request	
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Atlantic Renewable Energy Partners (Pty) Ltd Reg 2014/078624/07

101, 1st Floor, West Quay Building 7 West Quay Road, Waterfront Cape Town 8000

5 February 2016

Attention: Atlantic Renewable Energy Partners

RE: AGREEMENT TO GRANT PERMISSION FOR APPLYING FOR WATER USE ON THE FARM HUMASRUS 147, NORTHERN CAPE PROVINCE.

| CHRISTINA SUSANNA HUMAN with ID 3710090031080 hereby grant permission to David Michael Peinke as director of Atlantic Renewable Energy Partners to apply for Water use license for Humansrus Solar 3 (Pty) Ltd. on the farm Humansrus 147.

Name: C.S. HUMAN

ID: 3710090031080

Date: 2016 . 02 - 08

Signature B.S. Human.

ANDREW KOCH CA (SA)
Commissioner of Oaths RSA
9 Dal Road
Camps Bay
8005

Certified a true copy of the original

GEREGISTREERDE WOON- EN POSADRES

- Bewaar die bewys van u GEREGISTREERDE WOON- EN POSADRES in hierdie sakkie.
- 2. Indien u van adres verander het, of indien besonderhede van u huidige adres, bv. straalnaam en/of -nommer, ens. verander het, moet die vorm KENNISGEWING VAN ADRESVERANDERING, wat in die sakkte agter in die identiieitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by of gepos word aan die naaste streek-distrikkantoor van die DEPARTEMENT VAN BINNELANDSE SAKE.

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- Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket.
- 2. If you have changed your address, or, if particulars of your present address, e.g., name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in at or posted to the nearest regional/district office of the DEPARTMENT OF HOME AFFAIRS.

I.D.No. 830115 5047 08 1 S.A.BURGER/S.A.CITIZEN

VAN/SURNAME

PEINKE

VOORNAME/FORENAMES

DAVID MICHAEL

GEBOORTEDISTRIK OF-LAND/ DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBOORTEDATUM/ DATE OF BIRTH

DATE OF BIRTH

1983-01-15

DATUM UITGEREIK DATE ISSUED

1999-05-04

DITGEREIK OP GESAG VAN DIE DIREKTEUR GENERAAL: BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE DIRECTOR GENERAL: HOME AFFAIRS

Deeds Office Property



HUMANSRUS, 147, 0 (CAPE TOWN)

GENERAL INFORMATION

Deeds Office

CAPE TOWN

Date Requested

2013/04/15 14:23

Information Source

DEEDS OFFICE

Reference

PROPERTY INFORMATION

Property Type

FARM

Farm Name

HUMANSRUS

Farm Number

147

Portion Number

0

Local Authority

PRIESKADC

Registration Division

PRIESKARD

Province

NORTHERN CAPE

Diagram Deed

T28367/1978

Extent

4769,4155HA

Previous Description

LPI Code

C06000000000014700000

OWNER INFORMATION

Owner 1 of 2

Person Type

INDIVIDUAL

Name

HUMAN CHRISTINA SUSANNA

ID Number

3710090031080

Title Deed

T28367/1978

Registration Date

1978/11/08

SECT 45(1)

Purchase Price (R) **Purchase Date**

Share

Microfilm Reference

2009 0223 2346

Multiple Properties

NO

Multiple Owners

NO

Owner 2 of 2

Person Type

INDIVIDUAL

Name

HUMAN CHRISTINA SUSANNA

ID Number

3710090031080

Title Deed

T15173/2009

Registration Date

Purchase Price (R)

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1	K620/1979RM	CONTRACT SERVITUDES/MINERALS/LEASES/PC	HUMAN JAN WYNAND VLOK	UNKNOWN	
2	FARM PR 147	-	-	UNKNOWN	1985 0061 1370
3	FROM PR RD 102/1,104	-	/9	UNKNOWN	-

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#	Document	Description	Owner	Amount (R)	Microfilm
1	T28367/1978	TRANSFER	HUMAN JAN WYNAND VLOK	UNKNOWN	2009 0223 2346

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NORTON ROSE FULBRIGHT

Solar PV Facility Option Agreement

between

Christina Susanna Human (ID: 371009 0031 080)

and

Humansrus Solar 3 Proprietary Limited

In respect of
Lease Area on the Farm Humansrus Nr. 147,
Pixley Ka Seme District Municipality, Prieska Registration Division, Northern Cape Province

Mr S

3.4 Water related items

The following portion of the report are dedicated to discussions pertaining to water, the volumes and seasonality of the project requirements, the sources available, the infrastructure pertaining to water usage, the legislative approvals required for water usage and the corresponding environmental impact risks thereof.

3.4.1 Water requirements

The project consumes water for two purposes, the first being during the construction period and the second being for maintenance purposes (during the operational phase). The construction of the solar facility requires approximately 300-500 m³/month during the construction period (5400m³ – 6000m³/12-18month construction period). The project requires about 8 litres of water per panel per annum for the purposes of maintaining proper production (water used for cleaning of panels).

The amount and size of the panels that will be used will therefore determine how much water will be required for the maintenance requirements of a 75 MW plant. If a 250 Watt panel is used, a 75 MW plant (installed 85MW) will consist of more or less 340 000 panels, which will roughly calculate to 6.6-8 kl of water required per day (2'400-2'900 m³/annum), when considering an average consumption throughout the year.

The 20 x 10 kl capacity water tanks will be places on site in order to store 200 000 litres $(200m^3)$ of water at any given time, effectively providing a storage capacity of two to four weeks of cleaning water supply. The proposed activity is not a "water intensive activity" (as opposed to CSP technology).

Only a limited amount of water is required in low rainfall periods to clean the modules once every quarter so that they can operate at maximum capacity. No chemicals will be used to clean the panels, only water.

Weather conditions, traffic and general dustiness at the site play a role in the exact amount of water required to clean the solar PV panels. At present it is assumed that each panel should be washed once every three months.

To further reduce the use of water at the solar facility, the use of alternative panel cleaning methods is also being investigated. The most feasible technology under consideration uses compressed air to blow off any debris and dust from the panel's surface. At this stage the technology is being tested and needs refinement before it would be commercially viable. Other cleaning options are currently under development where rotating rubber-based waterless cleaning is used. Cleaning technologies are improving overtime and it is expected that more innovative cleaning technology will be developed, further reducing or eliminating water requirements although these are not fully commercially proven.

The development is expected to apply for a water use authorization or licence, from the Department of Water Affairs, as part of the development process. A water use licence is expected to be required for any water extraction (boreholes, rivers or channels) or for crossing river beds/washes. As far as possible, it is planned to avoid engaging in activities or actions which requires a water use licence, for example the crossing of perennial washes or abstraction of water. The requirements to apply for a water use licence are expected to be confirmed and directed by the appropriate specialists.

3.4.2 Water sources

There are a number of different water sources which can further be investigated to supply water for the project. The following section investigates these options.

3.4.2.1 Boreholes:

The preferred water sources are the existing boreholes on the proposed farm. Two boreholes have been identified on the farm, situated near the proposed site. These boreholes are seen as a possible water option for the facility.

A full pump-test is expected to be done after preferred-bidder status, should borehole water supply remain the preferred water supply, in order to confirm sufficient water supply potential from on-site boreholes; this will further confirm water availability.

The water from boreholes could be pumped to the on-site water tanks through a pipeline, although this will depend on the final location of the water tanks. Should such a water pipeline be required, the pipe diameter will be approximately 50mm-100mm. The pipeline will be laid on the ground, or just below the ground by means of manual excavation. The water pipeline should not result in any additional environmental impacts outside of the main construction area.

The utilisation of water from the boreholes is likely to require a licence in terms of section 21 (a) of the National Water Act which regulates abstraction from a water source. Should it deem possible to avoid the need for a water licence it would be done (for example eliminating water abstraction onsite as an option). A proof of submission of a "Water use licence application" (WULA) will be included within the Final Environmental Impact report should a water use licence be required.

Note that a freshwater ecology study is undertaken so as to verify any constraints surrounding seasonal washes and to take cognisance of any water use licence activities which could be required and will be included within the impact assessment phase.

3.4.2.2 Prieska-Copperton water-pipeline

An additional option is to obtain water from the existing pipeline which supplies Copperton and Alkantpan with potable water. The water is currently being fed, via the constructed pipeline, from Prieska and the Orange River. Should water be drawn from the existing water-pipeline, water will most probably transported with water trucks.

The usage of this "Alkantpan" potable water could potentially avoid the requirement of obtaining a water use licence from the Department of Water Affairs in terms of the extraction of water from resources such as groundwater or rivers (Section 21 (a)).

3.4.2.3 Siyathemba local municipality (alternative supply)

Permission to use water directly from the nearest town (Copperton) will further be investigated. This water will also have to be transported by trucks to the proposed site. This will be seen as the last alternative as transport costs will be significantly higher compared to the other two options. The usage of municipal water can reduce the requirement of obtaining a water use licence from the Department of Water Affairs in terms of the extraction of water from resources such as groundwater or rivers.

3.4.2.4 Rainwater

As an additional measure, PVC rainwater tanks could be placed alongside the on-site buildings to collect the rainwater runoff from the roof. These PVC tanks will then form part of the water storage tanks.

3.4.3 Water buffer

Water storing infrastructure is to be provided as part of the auxiliary building footprint area. Storing capacity for two weeks are planned to be provided for. This will add up to twenty 10 kl water tanks.



Figure 12: Typical water storage tank

3.4.4 Water-use permission

A water use application will be submitted as part of the environmental impact assessment process should it be found that this is unavoidable. As stated previously, proof of such a "Water use licence application" submission will be added to the "Final Environmental Impact Report".

However, as also stipulated in the official REIPPP documentation (RFP, Volume 1, Part 1, Section 4.5) the "Department of Water and Sanitation" (DWS) will only process water use licence applications from developers who have been selected as Preferred Bidders. Therefore a full assessment of the water-use licence application will only be undertaken by the DWS once the project is approved.

The EIA application can therefore be submitted without a water licence, although application proof of receipt is required. The DWS are also registered as a key stakeholder in the environmental process and will have an opportunity to provide any additional input.

3.4.5 Erosion and storm water control

The risk of water erosion is low because of the extremely low annual rainfall in the area. The ground condition in the Copperton area is such that large portions of surface water are absorbed into the soil. This avoids water build up on the surface and quickly reduces any water flow which might cause water erosion.

On large structures or buildings appropriate guttering could be used around the building to avoid water erosion where roof water would be flowing off the roof. Wherever practically possible rainfall run-off from the roofs/gutters will be captured and stored in rainwater tanks. If this water cannot be captured, water will be channelled into energy dissipating structures to spread the water and slow it down to reduce the risk of erosion. Such a structure could be moulded from precast concrete, loosely packed rock or perforated bags filled with stone.

Any rainfall on the solar modules would be welcomed due to its cleaning effect, but as mentioned before the annual predicted rainfall is very low and would not cause any erosion worth discussing. The solar module surfaces are installed at a relatively large incline with gaps between modules.

This does not allow significant water build up on the modules while also reducing the energy in falling droplets. Should a tracking technology be used this implies that droplets leaving the solar module surface would not drop onto the same ground areas all the time.

The construction area might cross over seasonal washes. To avoid erosion in these washes recognised building practices will be followed to keep the natural flow of water within its natural borders. It is in the interest of the solar operator to keep the area clean and free of erosion to avoid any damage to the equipment. The solar modules would be installed on frames, allowing for natural water flow underneath the structure.

During the construction phase of the project there might be a risk of wind erosion where natural vegetation is removed. This might increase the risk of damaging sensitive equipment with a sandblasting effect and all parties involved will be vigilant to avoiding this from happening. A phased construction approach will be investigated

A phased construction approach should also minimise the amount of exposed soil at any one time thus reducing the risk for wind erosion and dust generation. Once the construction on each phase is complete the cleared areas is expected to be re-vegetated with locally-collected seed of indigenous species and left for vegetation to return to the area naturally. Bare areas are envisioned to be packed with brush removed from other parts of the site to encourage natural vegetation regeneration and limit erosion. Any water being used in the cleaning process would speed up this natural vegetation rehabilitation process. Further it will also have a bonding effect on the sandy soil, avoiding the loose sand blowing away causing wind erosion.

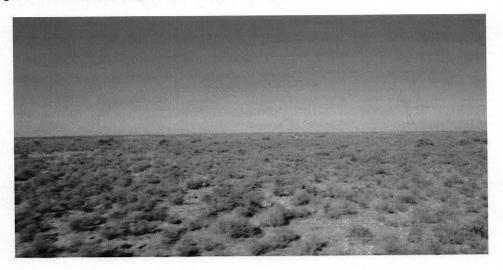


Figure 13: Illustration of current vegetation on the farm

Access roads and internal roads would also be designed and build using recognised erosion and storm water management systems. During the construction phase of the solar PV facility temporary solutions would be implemented to ensure that the environment is preserved in a sustainable way by avoiding erosion. The following figure shows a typical temporary solution that would be implemented during the construction phase, basically consisting of an inlet, channel and outlet. During outflow of the water energy is dissipated allowing any particles to sink to the ground which also avoids fast flowing water to sweep particles up from the ground avoiding erosion, by flowing though packed stones acting as a filter.



Figure 14: Installed concrete pipes and culverts

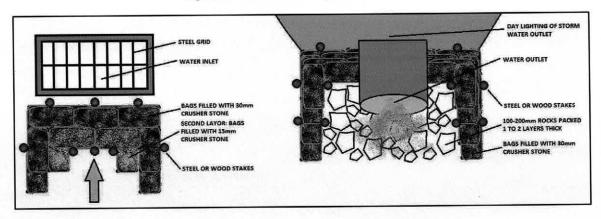


Figure 15: Temporary culvert inlet and outlet

More permanent solutions would be designed to keep storm water under control in a sustainable way. These structures would be built to be aesthetically pleasing by using fixtures such as stones packed in wire mesh to stay in a position or locking retaining walls at the inflow and outflow of the culverts also acting as scour protection.

Depending on the situation which is influenced by the type of water control most probably being stream crossing (in this particular case it would be a dry water wash for most of the year) or a culvert for water runoff management, either portal culverts with bases or reinforced precast concrete pipes would be used as the channelling.

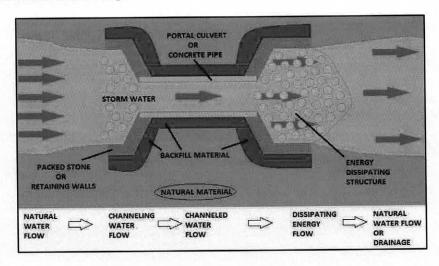


Figure 16: Storm water flow

An alternative to culverts considering drainage line crossings, Low-level River Crossings (LLRC) can be used. A LLRC is a structure that is designed in such a way to provide a bridge when water flow is low, while under high flow conditions water runs over the roadway, without causing damage.

Two types of LLRC can be used depending of the particular situation. A "Causeway" contains openings underneath the surface, which allows passing water through where a "Drift" does not.

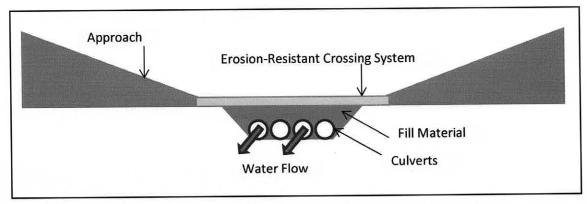


Figure 17: Causeway (Low Level River Crossing)

The same type of erosion control methods discussed with the culverts is taken into account when designing a LLRC. Because a LLRC is designed for water to flow over it, erosion protection is very important. Rock filled baskets, loosely packed rock or perforated bags filled with stone are some of the methods usually considered with LLRC.

The water use licence application process will include application for potential crossings of water courses in terms of Section 21(i) &(c) of the national water act. This application process will only commence if the project is selected as a preferred bidder. It should be noted that the finalization of the detail facility layout design is typically done only after preferred bidder status is obtained. Note that these discussed erosion prevention and storm water management will be implemented as and where required (to be finalised and included within the final detailed facility design and considerations to be taken will be obtained from specialists within the impact phase of this project).

As part of the impact phase of the environmental assessment process, a Storm water management, Erosion and Wash-water report will be prepared.

3.5 Grid connection

In this Scoping Phase a self-build powerline option to be investigated. Due to the planned decommissioning of the Cuprum Hydra 132kV powerline a Loop-in Loop-out grid connection option has been eliminated from the grid connection options. Due to the current information available and Eskom recommending connecting to Kronos substation a self-build Powerline option connecting to the Eskom Kronos substation has been selected and will be assessed.

Please note that the routes of power lines inside the project site and study area have a number of options and that this route options could change. The routes outside the study area and project site are however fixed to the route discussions within this impact phase.

Aquatic Delineation and Impact Statement: HUMANSRUS SOLAR 3 NORTHERN CAPE PROVINCE

Prepared for:

Humansrus Solar 3 (Pty) Ltd

Prepared by:

Scherman Colloty & Associates 1 Rossini Road PORT ELIZABETH, 6070



January 2016

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SPECIALIST STATEMENT DETAIL

This statement has been prepared with the requirements of the Environmental Impact Assessment Regulations and the National Environmental Management Act (Act 107 of 1998), any subsequent amendments and any relevant other National and / or Provincial Policies related to biodiversity assessments in mind.

Report prepared by: Dr. Brian Colloty Pr.Sci.Nat. (Ecology) / Certified EAP / Member SAEIES & SASAqS

Expertise / Field of Study: BSc (Hons) Zoology, MSc Botany (Rivers), Ph.D Botany Conservation Importance rating (Estuaries) and interior wetland / riverine assessment consultant from 1996 to present.

I, **Dr. Brian Michael Colloty** declare that this report has been prepared independently of any influence or prejudice as may be specified by the National Department of Environmental Affairs

EK.	_10 <i>lly</i>	
Signed:		Date:21 January 2016

1 - Introduction

Scherman Colloty & Associates (SC&A) was appointed by Humansrus Solar 3 (Pty) Ltd to conduct an aquatic assessment for the proposed Humansrus Solar 3 Photovoltaic Energy Facility and any additional supporting infrastructure near Copperton in the Northern Cape. This includes any transmission lines, substations and temporary works areas located within the solar facility.

This study includes verifying any previous desktop delineations conducted by SC&A (2013 & 2014) and was based on additional site specific information collected during a site visit in November 2015, while adhering to the assessment criteria contained in the DWAF 2005 / 2007 delineation manuals and the National Wetland Classification System found in the Appendix 1.

This report thus provides the relevant delineations and Present Ecological State status assessment of the observed waterbodies together with an analysis of the potential impact of the proposed activities on the aquatic environment.

2 - Project description

The proposed solar facility is located on a portion of the Farm 147 Humansrus, near Copperton in the Northern Cape and will be accessed via the R357.

The project comprises of the following components related to the aquatic environment:

- PV Footprint (including PV Panels, Substation, laydown areas).
- · Grid connection options
- Proposed access road option (including new roads as well as existing roads that may need some upgrading).
- Water supplied for the construction phase will be obtained from Alkantpan via an agreement between them and the proponent.
- The project will not employ any on-site treatment or disposal for the wastewater generated during the project's development phases. The generated quantities will differ significantly between the construction and operational phases of the development. The wastewater will be treated at the Siyathemba Local Wastewater Treatment Works (WWTW). According to the Municipality this facility has sufficient capacity to deal with all the expected Wastewater quantities generated by the project.

3 - Study area description

The study area is characterised by non- perennial watercourses (Plate 1), drainage lines and depressions (Plate 2) associated with the Bastersput River although located within the Carnavonleegte River D54D quaternary catchment (Figure 1).

Several of the national spatial databases such as the National Freshwater Ecosystems Priority Areas (NFEPA) assessment also identified several wetlands within the study area. These were typical pans or depressions (Figure 2) or the riparian¹ systems associated with the larger river systems to the east of the study area. The wetland areas were investigated during the site visit with the majority confirmed to be either farm dams or old borrow-pits.

According to the Present Ecological State Scores (PES) issued by the Department of Water and Sanitation (DWS) in 1999 (Nel *et al.* 2011), the D54 systems were rated with a PES = B, largely natural, with impacts mostly related either to agricultural practices, impoundments or alien vegetation (*Prosopis* spp).

¹ Riparian systems were included in NFEPA database, but are associated with river systems thus not typically considered wetlands, unless these are defined as floodplain wetlands which is not the case for the study area.

8 - Conclusion and recommendations

The proposed layout for the solar energy facility will have a negligible impact on the aquatic environment. The project has adhered to past specialist recommendations and the infrastructure that would have posed even a slight risk to water resources has been moved outside of any direct wetlands or water course areas.

Furthermore, during the site visit, no aquatic protected or species of special concern (fauna & flora) were observed within the adjacent areas that will be used. Therefore, based on the site visit the significance of the impacts assessed for the aquatic systems after mitigation would be LOW.

Figure 3 further indicates various buffers as required by the legislation, for each type of aquatic feature, which would trigger the need for a Water Use License application, should any construction take place within these areas. The author of this report would thus not object to the authorisation for any of the supporting infrastructure such as road crossings within these areas.

This would apply to any of the proposed alternatives as they would present a similar impact on the aquatic environment.

Finally, when considering any other potential projects within the adjacent / nearby farms the potential for changes to the surrounding aquatic habitat would not be significant especially during the operational phases (hard surfaces and stormwater management). It is however assumed that any such changes would be detrimental to the various project's owners, i.e. erode areas around panels. This coupled to the fact that the low mean annual run-off and with suitable stormwater management the impacts could be mitigated. The likelihood of any cumulative impacts listed in this report is especially low when considering the only a low percentage of projects will actually move into the construction phase.