

DAM SAFETY OFFICE

PRIVATE BAG X313 PRETORIA 0001

APPLICATION FOR CLASSIFICATION OF A PROPOSED NEW DAM OR ENLARGEMENT OR ALTERATION OF AN EXISTING DAM

Only applicable if the maximum wall height of the dam exceeds 5 metres and the gross storage capacity is more than 50 000 cubic metres

1. F	1. PARTICULARS OF THE DAM OWNER																								
1 1	.1. Name of dam owner BLACK ORCHID FARMING (PTY) LTD																								
1.1.	INAII	116 0	ua	III OV	VIICI		טבר					XI XIVII													
	2. Owner's postal address OFFICE 201, 30 HUDSON STREET, DE WATERKANT, CAPE TOW															• • •									
1.2.																ΝN									
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																	P	osta	1 000	Je 		0	0	0	I
	. Tel/d							0		1			+ -	1	-		3	-							
	.4. E-mail address of person in control of the dam <u>andre.botha@uff.co.za</u>																								
1.5	.5 Name and postal address of person in control of the dam (if applicable) CHRISTIE HENN																								
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	SAM	/IE /	IS A	BOA	/E												_	10010							
																		osta	I COC	је	L	4			
1.6.	6. Tel/cel. no. of person in control of the dam 0 8 2 3 4 6 7 9 2 4																								
	.6. Tel/cel. no. of person in control of the dam 0 8 2 3 4 6 7 9 2 4 .7. E-mail address of person in control of the dam christie@bonathaba.co.za																								
																			A NII	D 1					
2. F	PROI	PEF	RTY	ON	1 W	HIC	:H 7	ГНЕ	DA		IS (WIL	.L E	3E \$	SITU	JAT	ED						Υ	
2. F	PROI	PEF	RTY	ON	1 W	HIC	:H 7	ГНЕ	DA		IS (OR	WIL	.L E	3E \$	SITU	JAT	ED						Υ	
2. F	PROI	PEF	RTY	ON	1 W	HIC	:H 7	ГНЕ	DA		IS (OR	WIL	.L E	3E \$	SITU	JAT	ED						Υ	
2. F	PROI	PEF	RTY	ON	1 W	HIC	:H 7	ГНЕ	DA		IS (OR	WIL	.L E	3E \$	SITU	JAT	ED						Υ	
2. F 2.1.	PROI	PEF	RTY / des	ON	tion	HIC	:H 7	ГНЕ	DA		IS (OR	WIL	.L E	3E \$	SITU	JAT	ED						Υ	
2. F 2.1. 2.2.	PROI	perty	RTY / de:	on	tion ct	HIC	er tit	THE	DA		IS (OR	WIL	.L E	BE \$	OF F	JAT	ED						Υ	
2. F 2.1. 2.2. 2.3.	PROI	perty	/ des	ON scrip	tion ct	as p	er tit	THE	D A	AM	PO	OR RTIO	WIL	ANI	D 3 (OF F	JAT	ED					ABA	-Y ,5	km
2. F 2.1. 2.2. 2.3. 2.4.	PROI	PEF perty giste urest ance	rial city	ON scrip	ition ct	W City c	er tit	THE	DA eed	AM	PO	OR RTIO	WIL	ANI	D 3 (OF F	JAT	ED				THA	ABA		km
2. F 2.1. 2.2. 2.3. 2.4. 2.5. 2.6. * A	PROI	PEF perty giste ance ection her of the	rial (city) e to	ON scrip distri /town near om ne	n wition ct n rest (W city cost cit	er tit	E L wn town	DA eed L L aphi	L I	PO II N	OR RTIO	WILL ON 2	T O	D3(DF F	FARM	ED	00 B	BON	IAT	2 1	1 8	,5 D	В
2. F 2.1. 2.2. 2.3. 2.4. 2.5. 2.6. * A	PROI	PEF perty giste ance ection her of the	rial (city) e to	ON scrip distri /town near om ne	n wition ct n rest (W city cost cit	er tit	E L wn town	DA eed L L aphi	L I	PO II N	OR RTIO	WILL ON 2	T O	D3(DF F	ARM E	ED M 111	00 B	BON	IAT	2 1	1 8	,5 D	В
2. F 2.1. 2.2. 2.3. 2.4. 2.5. 2.6. * A (2.7.	PROI	perty perty giste ance ection nber of the ition	rial of city of free release of t	scrip distri near nm near near per near near near per near near near near near near near near	tion ct nest ceare 000 oortion entre	W with the control of the control o	er tit	E L wn town	DA eed L L aphi	L I	PO I I N O map	OR RTIO	WILL ON 2 G T T the po	T O	D 3 (ON)	DF F	ARM E	ED	00 B	3 aam a	IAT	2 1	1 8	,5 D	В

3. GENERAL INF	ORN	IAT	ON																	
3.1. Name of dam	В	0	N	Α	Т	Н	Α	В	Α		D	Α	М							
3.2. Name of water						В	E	R	G		R	ı	V	E	R					
3.3. For clean water					ourp		-	-		nark		applio	ļ			with	X)			
domes	tic su	pply	•]				irriga	ation		Х			ir	ndus	strial	use		
stock	wate	ering							fishe	eries				othe	r (sp	ecif	y be	low)		
Descri	be "o	ther"																		
3.4. For wastewate	r dar	ns, g	give	the p	urp	ose	of th	e da	ım (r	nark	all	applio	able	purp	oses	with	(X)			
polluti	on co	ntrol				wa	stev	vatei	r disp	osal				i	ndus	stria	l resi	due		
oxidation / ev	apor	ation						min	e res	idue				othe	r (sp	ecif	y be	low)		
Descri	be "o	ther"																		
3.5. For an existing	dam	des	cribe	the	natu	ure a	and e	exte	nt of t	he p	rop	osed	alte	ratio	ns o	r en	large	mer	nts	
N/A																				
3.6. Proposed start	ng da	ate o	f co	nstru	ctio	n	'		'			<u> </u>			Υ	Υ	Υ	Υ	М	М
3.7. Name and post	al ad	ldres	s of	desi	gne	ror	cons	ulta	nt (<i>if</i>	avai	lable	e)								
D J H	A	G	Е	N		_			SOU	TH A	FR	ICA	(PTY) LT	D					
P O B T Y G E	O R	X	V	A	L 9	<u>'</u>	7 (E	Y					P	osta	l coc	l de	7	5	3	6
3.8. Tel. no. of desi	gner	or co	nsu	ltant) 2	2 ′	1 9	1		1 2	8	3	3					
3.9. E-mail adress of	of des	signe	er or	cons	sulta	nt	dj@	djh	a.co.z	<u>a</u>										
4. PARTICULARS	S OF	= D	ΔМ	ΔΝΙ	D B	:AS	IN													
(For enlargement								am.	parti	cula	rs n	nust	be f	or th	e co	mn	lete	dstr	ucti	ıre)
4.1. Type of dam (,
,		, , rthfill		X	1					ckfill]		,		gra	avity		
	butt	tress]					arch]			m	ulti-a	arch		
earth "service"	rese	rvoir]					reinf	orce	ed co	ncre	te "s	ervi	ce" r	resei	voir		
mine residue	depo	osit *										iı	ndus	trial	resid	lue d	depo	sit *		
				any	stru	ıctui	re ge	nera	lly te	rmed	l a "	tailin	gs o	r slin	nes a	lam'	"			
other	` .															**				
4.2. Maximum wall ** Note! Wall height of the dam	is the	vert														atio/		the	6 outsi	m i de
4.3. Crest length of	wall																4	5	0	m
4.4. Gross storage	capa	city												7	0	0	0	0	0	m³
4.5. Area of water s	urfac	e at	full	supp	ly le	vel											1	2	,5	ha
4.6. Maximum full s	upply	/ wat	er d	epth	(ті	ıst b	e pr	ovid	ed)									1	3	m

5. PARTICULARS OF DEVELOPMENT DOWNSTREAM OF THE DAM

Describe with the aid of a 1:50 000 scale map the nature and situation of development downstream of a dam that would be threatened by a failure of the dam. Development means any houses, dwellings, other buildings, roads, bridges, cultivated lands, orchards, powerline foundations etc.

The area downstream of the dam wherein all development must be described is defined as follows;

- For every one metre of maximum wall height, at least one kilometre of the valley downstream of the dam wall should be analysed
- For the calculation of the width of the strip the following heights above river bed may be assumed;

2/3 of maximum wall height for the first kilometre downstream and 1/2 of the maximum wall height for the rest of the downstream distance

5.1. Development downstream of the dam (houses, dwellings and other similar structures)

Distance		Height	Distance	Number of
downstream	Purpose or use of structure	above river	from river	inhabitants
(km)		bed (m)	(m)	or users
0	pumphouse downstream of the embankment			0

5.2. Road and railway crossings downstream of the dam

IRRIGATION AREAS

Distance	(1)	If a road,	Height of	Brido	ge, culvert	or pipe ope	nings	(2)	(3)	Number
downstream	Type of road	is it	road / railway	Width	Height	Diameter	How	Туре	Visibility	of
(km)	or railway	tarred?	above river	(mm)	(mm)	(mm)	many?	of	distance	vehicles
		(Y/N)	bed (m)					crossing	(m)	per day
0.02	DRD	N		5000	2000	840	1	Е	i ii	<100
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			,						i	
			,						ii	
									i	
			,						ii	
									i	
			,						II .	
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			,						ii	

			/												
1) Type of roa	ad or railway - Us	e one of the	e following abb	reviations											
NRD = nati	onal road		MRD = main	road	SR	D = seco	ndary ro	oad	DRD = district road						
FRD = farm	n road		STR = single	track railwa	ay		MTI	$R = m_0$	ulti-trad	ack railway					
Explain oth	er abbreviations			=											
(2) Type of cro	ossing - Use one	of the follov	ving abbreviati	ons											
C = culverts	s or pipes encase	ed in concre	ete			E:	= culver	ts or p	ipes b	uried	in earth	fill or re	ockfill		
B = concret	te bridge with pie	rs				D=	= drift w	ith san	ne heig	ght as	s river be	∍d			
Explain oth	er abbreviations		=												
3) Visibility dis	stance - This is tl	ne distance	to a bridge or	crossing fro	om where a	motorisi	t can se	e if the	ere is a	any da	anger in	using	the		
bridge or c	rossing. Both ap	oroach dista	ances are requ	ired. The d	order in wl	nich i an	d ii are	writte	n does	s not	matter.				
If the dista	nce equals or ex	ceeds 1 kilo	metre, enter 9	99											
5.3. Other (development	downst	ream of the	e dam, n	ot cover	ed by	5.1 or	5.2							

																							•	
6. D	FCI	ΔR	ΔΤ	ION	RY	΄ ΔΕ	PPI I	ICΔI	uт															
0. D									•															
I ded	clare	tha	t the	info	rma	tion	give	n by	me	for th	ne cl	assi	ficati	ion o	of the	abo	ve c	lam i	is tru	ie ai	nd co	orrec	ct.	
					,	7																		
					1/2	lisa	111																	
Sign	atur	e:			\mathcal{C}	your	V											Date	э:		17-	·Aug	-20	

Classification Application

NB! Remember to attach a clear copy of the relevant topographical map (see 2.6)

DW 692 E