

## NOTIFICATION OF INTENT TO DEVELOP

DEA Not yet received  
Reference:

DMR Not yet received  
Reference

Digby Wells XST 1716  
Reference:

### HERITAGE STATEMENT FOR THE ZANDBAKEN COAL MINE PROJECT, ZANDBAKEN 585 IR, SANDBAKEN 363 IS, AND BOSMANS SPRUIT 364 IS, STANDERTON, MPUMALANGA

#### 1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) has been requested by Xstrata Coal South Africa (hereafter Xstrata Coal) to submit a Heritage Statement for the following:

- Zandbaken Coal Mine Project

##### 1.1 Project Location

Name of property/ies	Zandbaken Coal Mine
Street address or location (e.g.: Off R44)	Off R547
Erf or farm number/s	Zandbaken 585 IR Sandbaken 363 IS Bosmans Spruit 364 IS
Coordinates of approximate centre of project area	Latitude: -26.737293°
	Longitude: 29.001042°
Town or District	Gert Sibande District
Responsible Municipality	Lekwa Local Municipality
Extent of property	2 890 ha
Maximum extent of proposed development	22.82 ha
Current use	Greenfields site
Predominant land use/s of surrounding properties	Farming, residential, mining

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Directors: AR Wilke, LF Koeslag, PD Tanner (British)\*, AJ Reynolds (Chairman) (British)\*, J Leaver\*, GE Trusler (C.E.O)  
\*Non-Executive

## 1.2 Registered Owners of Properties

Name	Property	Notified
Lane Reynolds Trust	Zandbaken 585 IR Portion 1	Notified
The Republic of South Africa	Zandbaken 585 IR Portion 3	Notified
A H Cronje Trust	Zandbaken 585 IR Portion 5	Notified
Abraham Hermanus Cronje	Sandbaken 363 IS Portion 1	Notified
PJ Cronje & Seuns (Pty) Ltd	Sandbaken 363 IS Portion 2	Notified
Abraham Hermanus Cronje	Sandbaken 363 IS Portion 3	Notified
Dick Kerslake Family Trust	Sandbaken 363 IS Portion 4	Notified
Disc Kerslake Family Trust	Sandbaken 363 IS RE	Notified
Sutcliffe Family Trust	Bosmans Spruit 364 IS Portion 3	Notified
The Republic of South Africa	Bosmans Spruit 364 IS Portion 6	Notified

## 2 PROJECT DETAILS

Xstrata Coal was granted a Prospecting Right in terms of Section 17 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA) for the farms Zandbaken 585 IR, Sandbaken 363 IS and Bosmans Spruit 364 IS in the Gert Sibande District Municipality (formerly the Standerton District Municipality) of the Mpumalanga Province. A Mining Right Application (MRA) for the proposed Zandbaken Coal Mine (herewith referred to as the 'Zandbaken Project') will be submitted to the Regional Office of the Department of Mineral Resources (DMR) in November 2012.

The proposed Zandbaken Project area is a greenfields area of approximately 2 890 hectares (ha) however Xstrata Coal is currently evaluating the potential for mining on the farm Sandbaken 363 IS Portion 3. Mining will take place via underground mining methods and the actual development footprint is approximately 22.82 ha.

Digby Wells has been appointed by Xstrata Coal to conduct an Environmental Impact Assessment (EIA) with associated specialist studies in support of the MRA in accordance to both the MPRDA and the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA).

## 2.1 NHRA Section 38 Triggers

The following aspects of Section 38 of the NHRA may be triggered by the proposed project.

NHRA Section 38 (1) Activities / Triggers		Summary description (E.g. 500 m conveyor belt, open cast pit, etc.)	
<input checked="" type="checkbox"/>	a	Any linear development or barrier >300 m	Roads
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	
<input checked="" type="checkbox"/>	c	Any development or activity that will change the character of a site:	
<input checked="" type="checkbox"/>	i	≥5 000m <sup>2</sup> in extent	Underground mine and associated infrastructure
<input type="checkbox"/>	ii	Involving ≥3 existing erven/ subdivisions	
<input type="checkbox"/>	iii	Involving ≥3 or more erven/ divisions consolidated within past 5 years.	
<input type="checkbox"/>	d	Rezoning of a site ≥10 000m <sup>2</sup> in extent.	
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	NEMA and MPRDA

## 2.2 Activities

The following activities will take place during the lifespan of the proposed project.

NEMA Activity No.	NHRA Trigger	Description	Expected duration/phase
2	38(1)(a)	Construction of any infrastructure e.g. roads, vent shaft, surface water reservoirs, sewer, parking area, buildings, pipelines, oil drainage, decline shaft, silt trap stockpiles, portable reservoir tank, and bunker.	Construction Phase
3	38(1)(c)	Blasting and development of initial boxcut for mining (including stockpiling from initial cuts)	Construction Phase

## 2.3 Additional Impact Assessment Process

The following impact assessment processes are currently being undertaken for the proposed project.

Legislation, i.e. NEMA, MPRDA, etc.	NEMA and MPRDA
Consenting Authority that has/will receive information	DEA and DMR
Present phase of process at Authority, e.g. Draft Scoping Report	Draft Scoping Report



### 3 IDENTIFIED/KNOWN HERITAGE RESOURCES AND POTENTIAL IMPACTS

The following categories of heritage resources as defined in Section 3 of the NHRA are known to occur within the proposed project area.

<input type="checkbox"/>	3(2)(a)	<b>Places, buildings, structures and equipment of cultural significance</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(b)	<b>Places to which oral traditions are attached or which are associated with living heritage</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(c)	<b>Historical settlements and townscapes</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(d)	<b>Landscapes and natural features of cultural significance</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(e)	<b>Geological resources of scientific or cultural importance</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input checked="" type="checkbox"/>	3(2)(f)	<b>Archaeology and/or palaeontology (<i>Including archaeological sites and material, fossils, rock art, battlefields &amp; wrecks</i>)</b>
		<i>Description of resource:</i> Stone Age and Iron Age resources, and fossils
		<i>Potential impact:</i> The destruction and/or alteration of Stone Age and Iron Age resources and of subsurface fossils.
<input type="checkbox"/>	3(2)(g)	<b>Graves and burial grounds (<i>e.g.: ancestral graves, graves of victims of conflict, historical graves &amp; cemeteries</i>)</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(a)	<b>Other human remains</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>



<input type="checkbox"/>	<b>3(2)(h)</b>	<b>Sites of significance relating to the history of slavery in South Africa</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	<b>3(2)(i)</b>	<b>Movable objects</b>
		<i>Description of resource:</i>
		<i>Potential impact:</i>

### 3.1 Illustrative Material













Plan 2 on Page 6 illustrates the local setting of the Zandbaken Project area. For additional maps, please refer to the attached Heritage Statement.

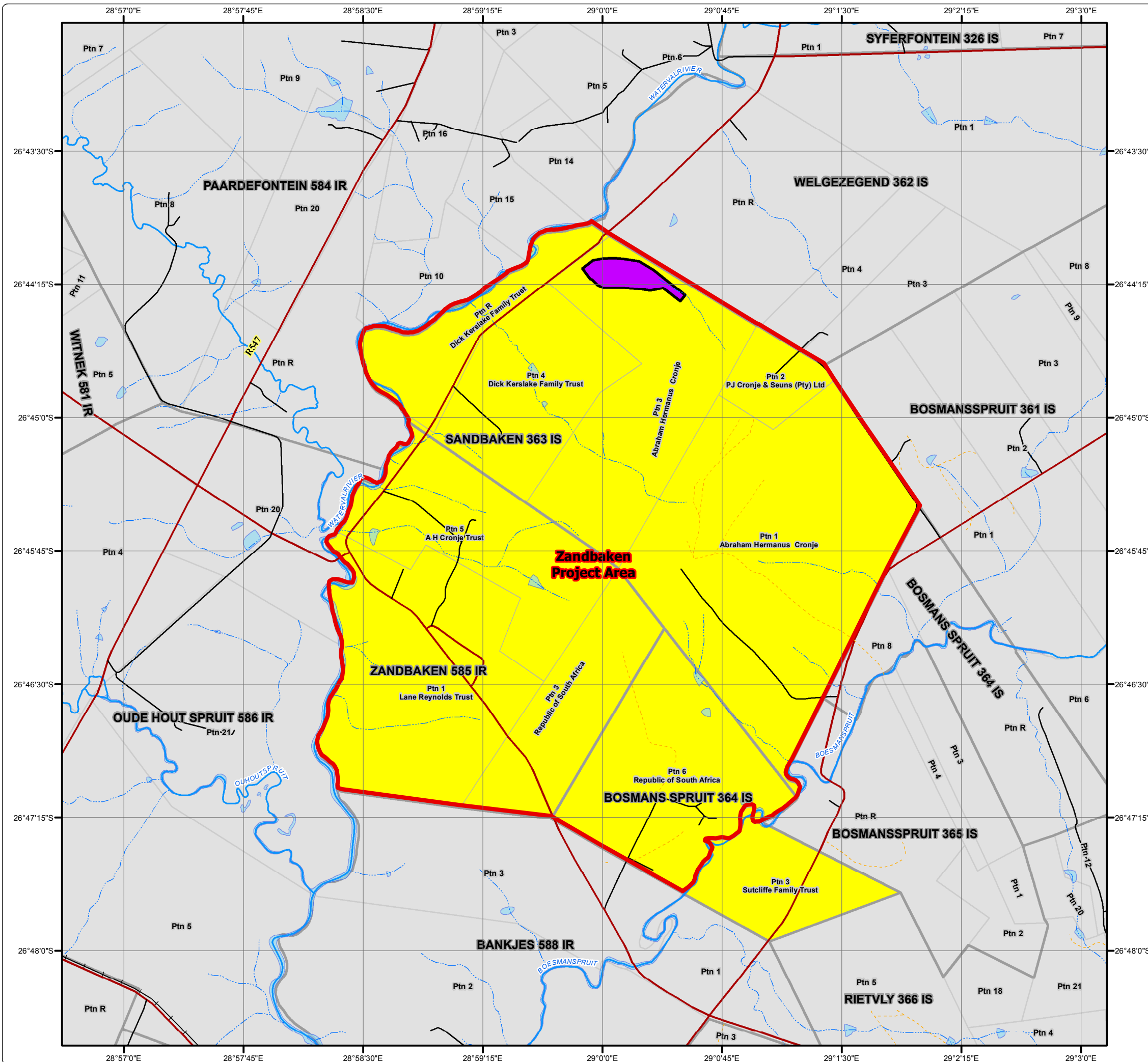
## 4 RECOMMENDATION

Is a Heritage Impact Assessment required?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If NO, provide motivation:			
If YES, provide suggested components that may be required or undertaken during HIA.			
<input checked="" type="checkbox"/>	Archaeology	<input type="checkbox"/>	Architecture
<input type="checkbox"/>	Built Environment	<input type="checkbox"/>	Burial Grounds and Graves
<input checked="" type="checkbox"/>	Palaeontology	<input checked="" type="checkbox"/>	Public Participation
<input type="checkbox"/>	Townscapes	<input checked="" type="checkbox"/>	Visual Impact
<input type="checkbox"/>	Other:		
<b>Recommendation made by:</b> <b>Name:</b> Shahzaadee Karodia and Johan Nel <b>Capacity:</b> Archaeology Consultant and CRM Unit Manager – Digby Wells Environmental			

# EIA/EMPR for Zandbaken Project Land Tenure & Infrastructure Footprint

## Legend

-  Project Area
-  Infrastructure Footprint
-  Arterial / National Route
-  Main Road
-  Minor Road
-  Tracks
-  Railway Line
-  Perennial Stream
-  Non-Perennial Steam
-  Dam / Lake
-  Farm Boundaries
-  Farm Portions
-  Affected Farm Portions



Projection: Transverse Mercator Ref #: tdm.XST1716.201301.034  
 Datum: Hartebeesthoek 1994 Revision Number: 1  
 Central Meridian: 29°E Date: 14/01/2013

