



No.	DATE	REVISION	CONSULT	ENGINEER	NAME	DATE
01	JAN 2012	ORIGINAL VERSION	CONSULT	ENGINEER	NAME	DATE

CONSTRUCTION ENGINEER Name : XX XXXXXXXX Prof Reg No. : 00 1841 1111 Date :		DESIGNED BY Name : G VAN RENST Prof Reg No. : 2000004 Date :	
MANUAL PRODUCT MANAGER Name : XX XXXXXXXX Prof Reg No. : 00 1841 1111 Date :		CHECKED BY Name : W JEFFRE Prof Reg No. : 2000004 Date :	

CONSULTANT APPROVAL Name : W JEFFRE Prof Reg No. : 2000004 Date :		HEAD OFFICE 48 Tumbolia Avenue Val de Grace Pretoria P.O. Box 415 Pretoria 0001 South Africa Tel: (012) 944 8000	
THE SOUTH AFRICAN NATIONAL BUREAU OF SURVEYING Reg No. : 000000000000		SOUTHERN REGION NNA House 70 Zind Avenue Port Elizabeth 6045 Greenfield P.O. Box 27230 Greenfield Tel: (041) 398 3200	

PROJECT DESCRIPTION CONTRACT NO. NRA R.001-030-2011/F - REHABILITATION OF R61 SECTION 3 FROM km 24,2 TO km 75 (TARKASTAD) DRAWING NAME BORROW PIT 2 - EMP		PROJECT NUMBER R.001-030-2011/F START N61 03 21,2 END N61 03 75,0 ROADWORKS - MATERIAL SOURCES CONSULTANT DRAWING No. FA 1 28033007016 BRZ SHEET 1 OF 1	
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WorleyParsons
 Products & Energy
 Incorporating KVA ENGINEERS
 P.O. Box 7587
 Nauders Park 6005
 FREDERICKSBURG 6129
 www.worlparsons.com

LEGEND
 EXTENT TO BE MINED - 176 420m²
 MATERIAL - Weathered Dolomite
 USE - G7 Selected
 - Bypasses
 - Fill

NOTES
 1. Borrow Pit to be self-draining.
 2. Drawing not to be scaled.
 3. Topsoil and overburden material to be used for rehabilitation of Borrow Pit.
 4. All temporary batters to be maximum 1:1,5 and all finished/rehabilitated batters to be maximum 1:3 (1:3 indicated on drawing).
 5. A fence and gate are to secure the area to be worked. See detail drawing for fencing.

BENCH MARKS - WGS 84

Code	Y	X	Elevation
NRB100/2011	-90270,92	3544459,22	905,210
NRB101/2011	-90474,59	3544240,19	908,934

EXTENT OF AREA TO BE EXCAVATED = 62 311,626m² PERIMETER = 656,529m

Point	Elevation
F1	-90468,74
F2	-90394,74
F3	-90256,49
F4	-90105,74
F5	-90080,75
F6	-90130,73
F7	-90271,81

FENCE AREA = 84 870,081m² PERIMETER = 1 111,418m