6.3.7 Revegetation

Seed

The topsoiled areas shall be seeded with a suitable, site specific grass mix as shown in the in the discussions of recommendations of every specific borrow pit (Section 5) of this report.

<u>Fertilizer</u>

Standard 2:3:2 (N:P:K) at 0.6t/ha.

Maintenance

25mm of gentle irrigation each week until 70% groundcover has been obtained. Avoid livestock grazing during re-vegetation.

Hydroseeding (a contractor who is conversant with the method must be used). Cellulose pulp at 250kg/ha and compost at 5m³/ha (100 X 50kg bag/ha) should be added to the seed mix.

If seeds are utilised, in order to ensure that seeds have an opportunity to germinate, and to avoid erosion of exposed surfaces, organic mulch should be spread over the surface following seeding.

Grass seed mixes will be planted across the denuded topsoiled areas of the site. Grass sods shall be used on embankments exceeding 1:3 slope.

6.3.8 Rehabilitation Schedule

The following rehabilitation schedule should be followed;

Rehabilitation schedule

Activity	Description	Timing
Shape Borrow pit floor	Shape the borrow pit floor to a	At site
	gradient of a min 2% to ensure that	establishment,
	it is free draining	and on-going
		during borrow
		pit development
Clear product stockpiles	Ensure that only the quantity of	End of Road
	material needed for the road	construction
	rehabilitation contract is mined, so	contract
	that no residual stockpiles are left	
Scarify access roads	Scarify access road if the borrow	At closure
	pit is not to be used again	

Shape side slopes of	The borrow pit side slopes shall be	On going during
borrow pit	shaped to a maximum slope of 1:3	operation and at
		closure
Use of overburden	Use any residual overburden	At closure
	material to fill in depressions and to	
	create a smooth slope face	
Place topsoil	Place topsoil from the designated	At completion of
	topsoil stockpiles over the mined	each mined
	face at a thickness of min 150mm	face and at
		closure
Hydroseed	Hydroseed the completed side	At closure
	slopes and borrow pit floor with the	
	mix as specified above	
Water	Water once per week, until 70% of	At Closure
	ground cover has taken	

6.3.9 Monitoring and Reporting

Regular monitoring of all the environmental management measures and components should be carried out by an appointed independent consultant, in order to ensure that the provisions of this programme are adhered to.

Ongoing and regular reporting on the progress of implementing this programme shall be done.

Inspections and monitoring shall be carried out on both the implementation of the programme and the impact on plant and animal life.

Visual inspections on erosion and physical pollution shall be carried out on a regular basis.

Annual reports confirming compliance with the Environmental Management Plan will be submitted to the Department of Minerals and Energy.

Any emergency or unforeseen impacts must be reported as soon as possible to DME.

Any assessment of environmental impacts that reveals impacts that were not properly addressed, or were unknown when this programme was compiled shall result in the carrying out of an assessment of the impact and the addition of a corrective action to address the impact.

Erosion control measures shall be inspected after occurrences of rainfall that measured more than 30mm in 24 hours. In addition, all erosion control measures shall be visually inspected once a month. Table on the overleaf presents the proposed monitoring timetable.

Proposed Monitoring Timetable

ACTIVITY	MONITORING FREQUENCY	RESPONSIBILITY
PUBLIC PARTICIPATION		
Public participation	Prior to moving onto site	Engineer / Contractor
Notification of I&AP prior to Construction phase	Ongoing during life of the mine at least 48 hours prior to Engineer/ Contractor activity	Engineer/ Contractor
Complaints Record	Ongoing (to be tabled during monthly meetings)	Engineer
ROADS AND ASSOCIATED SERVICES		
Routing and haulage	Prior to moving onto site and ongoing during life of mine Engineer / Contractor (weekly)	Engineer / Contractor
Formal drainage (roads and site)	Prior to moving onto site and ongoing during life of mineEngineer / Contractor (weekly)	Engineer / Contractor
Run-off, sheet erosion, scour checks	Prior to moving onto site and ongoing during life of mine Engineer / Contractor (monthly and every time rainfall measures more than 30mm in 24 hours)	Engineer / Contractor
STAFF EDUCATION AND AWARENESS		
Risks associated with materials being stockpiled on site	On staff induction and ongoing (monthly)	Confractor
Environmental education of staff	On staff induction	Contractor
Noise control (by staff)	On staff induction and ongoing (monthly)	Contractor
General Housekeeping	On staff induction and ongoing (monthly)	Contractor

ACTIVITY	MONITORING FREQUENCY	RESPONSIBILITY
Worker conduct	On staff induction and ongoing (monthly)	Contractor
Control of fire arms	On staff induction and ongoing (monthly)	Contractor
Control of alcohol and drugs on site	On staff induction and ongoing (monthly)	Contractor
Control of speed limits	On staff induction and ongoing (monthly)	Contractor / Engineer
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CONSTRUCTION PHASE		
Demarcation of the mining area	During site set up	Contractor
Placing of chemical toilet	During site set up	Contractor
Demarcation of sensitive areas (if any; archaeological, biodiversity, etc) During site set-up	During site set-up	Engineer / Contractor
Emergency procedures	During site set up and ongoing (monthly)	Engineer / Contractor
	During site set up and ongoing (monthly and every time Contractor	Contractor
Appropriate drainage design and monitoring	rainfall measures more than 30mm in 24 hours)	
Waste Management	During site set up and ongoing (monthly)	Confractor
Bins/skips should be regularly emptied	On a weekly basis	Contractor
Visual impact of mining areas	During site set up and ongoing during the mine life (monthly)	Engineer / Contractor
	Ongoing during the life of the mine (monthly and every time Engineer / Contractor	Engineer / Contractor
Run-off sheet erosion and scour check	rainfall measures more than 30mm in 24 hours)	erganpalariskegi zene
Dust Control	Daily/ weekly/ monthly	Contractor
General Housekeeping	On a daily basis	Contractor
Safety of the site at the end of each day	On a daily basis	Contractor

AGTIVITY	MONITORING FREQUENCY	RESPONSIBILITY
OPERATIONAL PHASE		
Speed level adherence	Ongoing during life of the mine (monthly)	Contractor
Dust Management (dampening of roads and denuded areas)	Ongoing during life of the mine (daily/ weekly/ monthly)	Contractor
Fumes Management (vehicles to be serviced regularly)	Ongoing during life of the mine (monthly)	Contractor
Time that areas are stripped before mining takes place	Ongoing during life of the mine (monthly)	Engineer / Contractor
Erosion control measures to prevent topsoil loss	Ongoing during life of the mine (monthly)	Engineer / Contractor
Conservation of topsoil by revegetation	Ongoing during life of the mine (monthly)	Engineer / Contractor
Fencing of sensitive areas	Ongoing during life of the mine (monthly)	Engineer / Contractor
Hunting, snaring and other forbidden activities	Ongoing during life of the mine (monthly)	Contractor
Prevention of using other types of toilets (Long drops & surrounding		Contractor
vegetation)	Ongoing during the life of the mine (monthly)	e e e e e e e e e e e e e e e e e e e
Noise Management (equipment maintenance)	Ongoing during life of the mine (monthly)	Contractor
	Ongoing during life of the mine (monthly and every time Engineer / Contractor	Engineer / Contractor
Denuded areas must be protected against erosion	rainfall measures more than 30mm in 24 hours)	
Ensuring that natural water pathways are maintained	Ongoing during life of the mine (monthly)	Engineer / Contractor
Alien invader management plan	Twice monthly	Engineer / Contractor
DECOMMISSIONING		
Rehabilitation of access/haulage roads	On mine completion	Contractor
Clearing of all materials	On mine completion	Confractor
Disposal of all waste (including general, hazardous, contaminated soils, On mine completion		Contractor

ACTIVITY	MONITORING FREQUENCY	RESPONSIBILITY
etc to appropriate facilities)		
Reshaping of all disturbed areas	On mine completion	Contractor
Scarifying of all disturbed areas	On mine completion	Contractor
Topsoiling of all disturbed areas	On mine completion	Contractor
Revegetation of all the topsoiled areas	On mine completion	Contractor
Alien vegetation control	On mine completion	Contractor
Monitoring vegetation growth until a 70% coverage is achieved	On mine completion	Engineer / Contractor
Inspection by relevant Authority	On mine completion	Engineer

6.4 CLOSURE

When the applicant intends closing down the operation, an environmental risk report shall be compiled. The requirements of such a report are contained in Regulation 60 of the Regulations promulgated in terms of the Minerals & Petroleum Resources Development Act.

Financial Provisions

The determination of the Financial Provisions for the borrow pits were conducted according to the Department of Minerals and Energy's *GUIDELINE DOCUMENT FOR THE EVALUATION OF THE QUANTUM OF CLOSURE-RELATED FINANCIAL PROVISION PROVIDED BY A MINE*. This guideline is the official guideline as contemplated in Regulation 54(1) to the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

The determination was conducted according to the "Quick Method" and is as follows:

- Step 1: Determine the primary mineral
- Step 2: Determine the risk class
 - Class A (High risk)
 - Class B (Medium risk)
 - Class C (Low risk)
- Step 3: Identify the minimum rates per hectare
- Step 4: Determine the overall size of the mine

The calculation for each borrow pit is as follows:

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Total Financial Provision for all the Borrow pits

Borrow pit no.	Grand Total (incl. VAT)
BP01	R 34 200.00
BP05	R 34 200.00
BP06	R 34 200.00
BP07	R 34 200.00
BP08	R 34 200.00
BP09	R 34 200.00
BP10	R 34 200.00
BP11	R 34 200.00
BP13	R 34 200.00
BP14	R 34 200.00
BP15	R 34 200.00
BP16	R 34 200.00
BP17	R 34 200.00
BP18	R 34 200.00
TOTAL	R 478 800.00

Over and above these costs are the costs to mobilise plant to site on a low-bed truck from the nearest large town.

7 ENVIRONMENTAL AWARENESS PLAN

The environmental awareness plan has been compiled to inform the Applicant's employees of the environmental risks, which may result from the mining operations and the manner in which the risks must be dealt with in order to avoid pollution and degradation of the environment.

Environmental training must be conducted during induction, before actual mining commencement. Environmental training must be conducted every time new staff is employed and monthly for the duration of the mining period.

The Environmental Management Plan shall be an Item on the monthly construction meeting's agenda. Continuous environmental education will be carried out during the monthly staff meetings. The Contractor shall appoint an in-house Environmental Officer which shall inspect the works daily and report back to the Contractor, who in turn needs to report any identified impacts to the Engineers. Monthly external EMP compliance audits are recommended, to ensure adherence to this EMP document.

The following items were included in the Environmental Awareness Plan:

- Definition of the environment
- General housekeeping rules
- How to look after the environment (flora and fauna)
- How to avoid pollution of the air, water
- What to do in an emergency.

The Contractor must submit a proposal for the environmental training to the Project Engineer for approval. It is the Contractor's responsibility to provide the site foreman with no less that 1 hour's environmental training and to ensure that the foreman has sufficient understanding to pass this information onto the staff. Translators are to be used where necessary.

The Project Engineer should be on hand to explain more difficult / technical issues and to answer questions. The use of pictures and real-life examples is encouraged as these tend to be more easily remembered. Use should be made of the environmental awareness posters on site.

The need for a "clean site" policy also needs to be explained to the staff.

The Environmental Awareness Plan is attached in Appendix C.

8 CONCLUSION

The environmental impacts associated either of the borrow pits are all manageable with adherence to the attached borrow pit specific and general environmental management and rehabilitation plans.

9 REFERENCE AND SUPPORTING DOCUMENTATION

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Mucina, L. and Rutherford, M.C (eds) 2006. *The Vegetation of South Africa, Lesotho and Swaziland*, Strelitzia Publishers.

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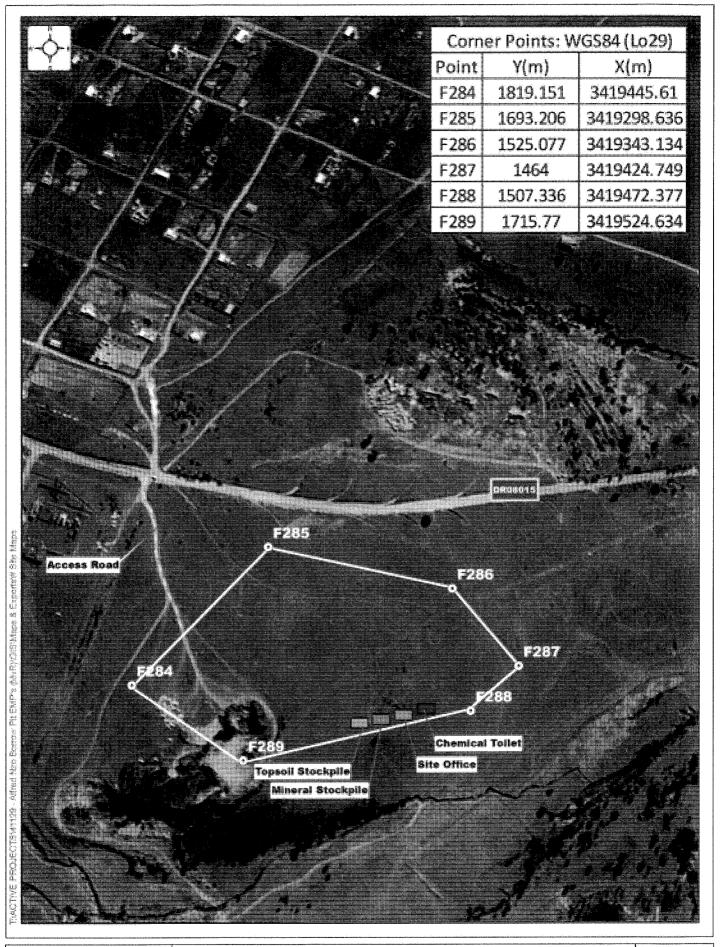
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agreed to by the Regi	onal Manager.					
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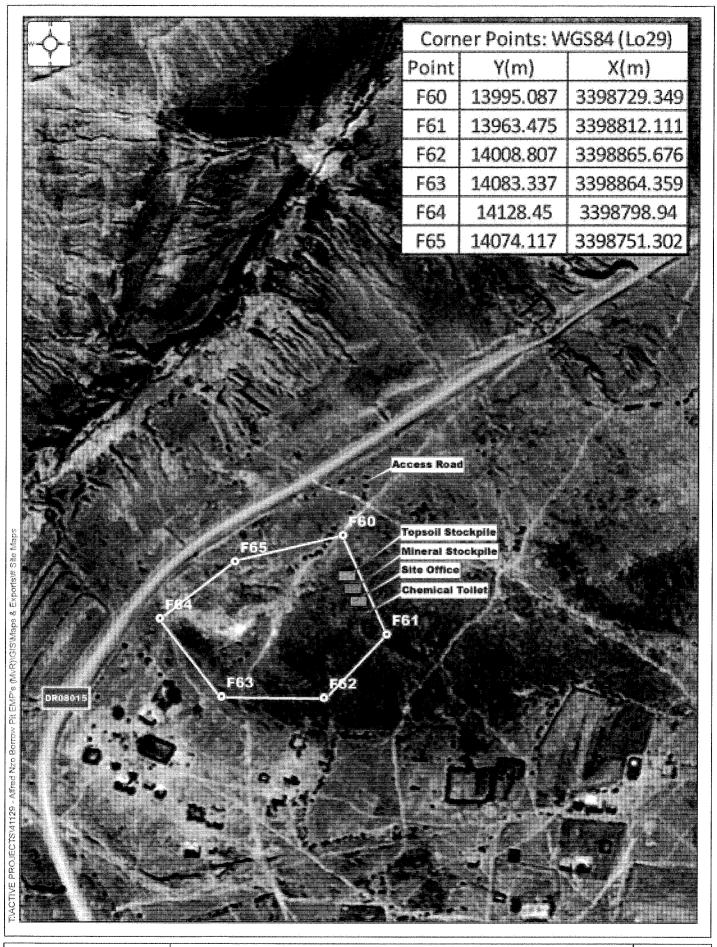
APPENDIX A AREA WIDE LOCALITY MAP SITE PLANS SURVEY DRAWINGS





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Scale 1:3 000

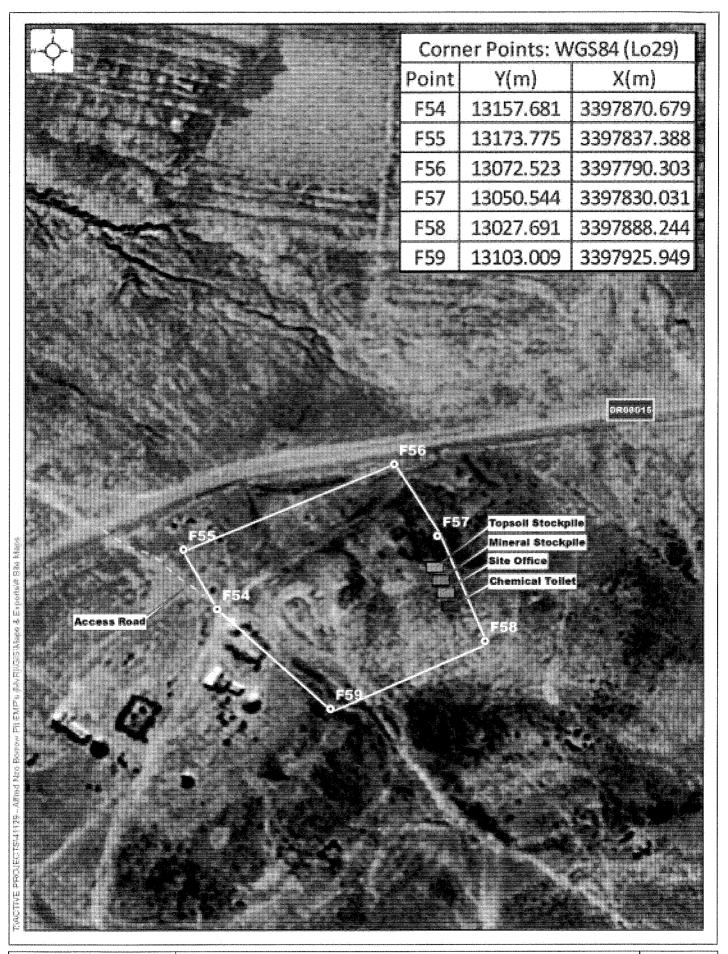




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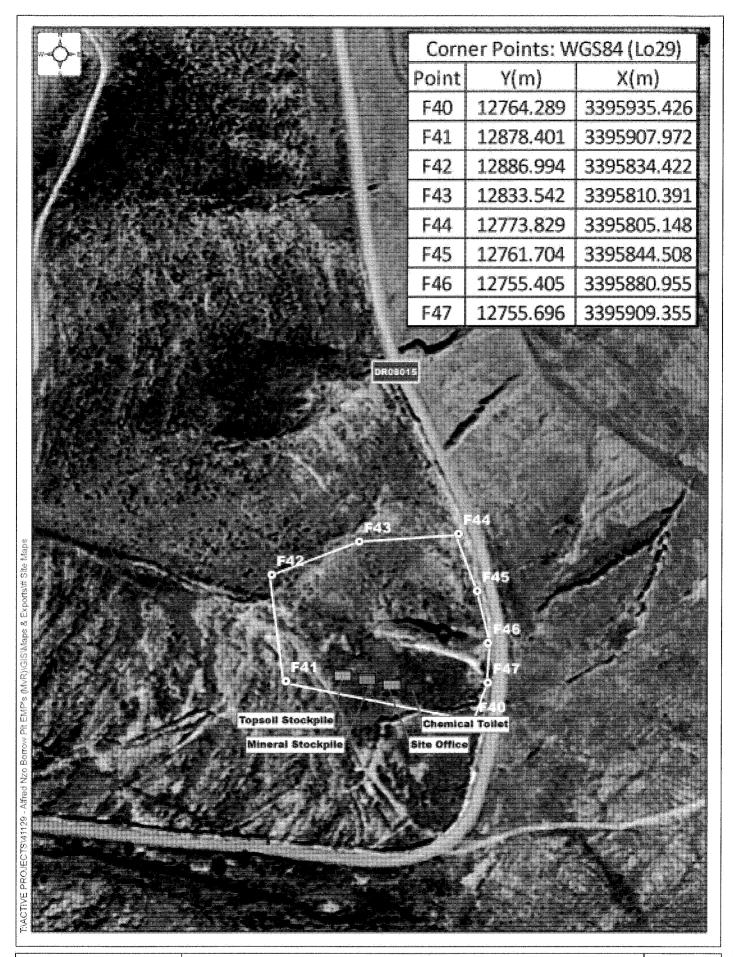
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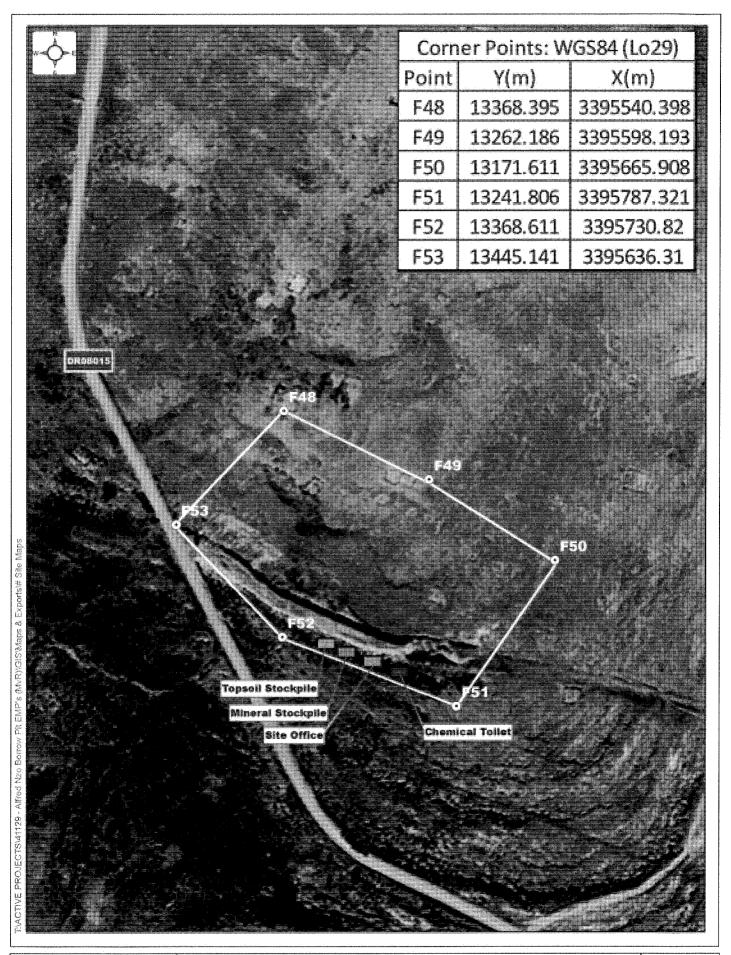
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0 10 20 40 60 80 Meters

Fig 2





P.O. Box 794 Tel: (033) 343 6789 HILTON 3245 Fax: (033) 343 6788 Alfred Nzo Borrow Pit EMP's Road: DR08015 Site Layout - BP08

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Fig 2

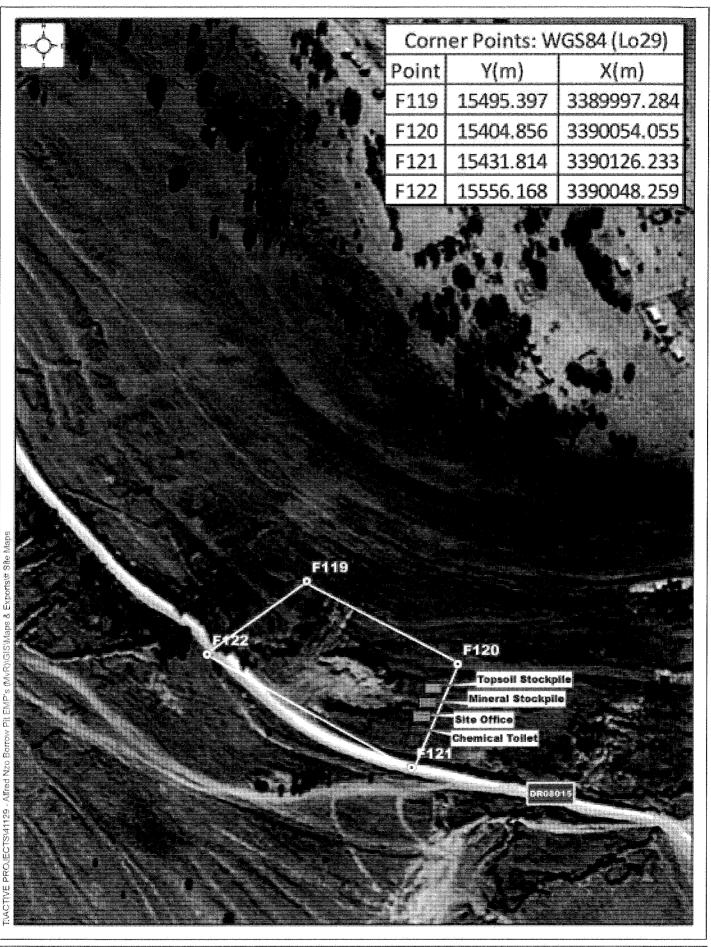
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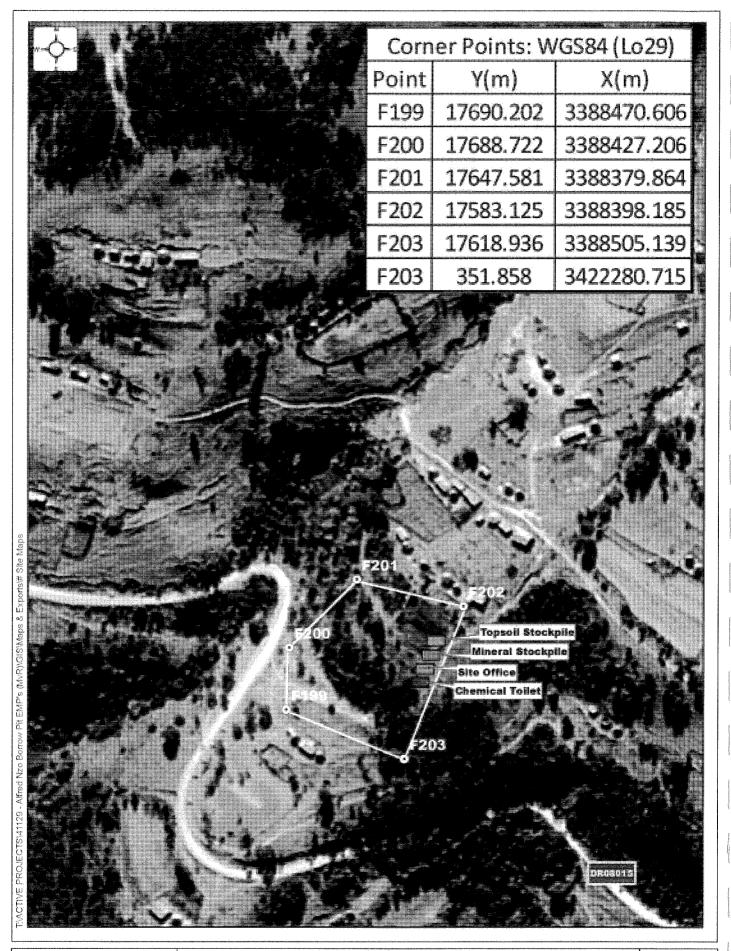


Alfred Nzo Borrow Pit EMP's Road: DR08015

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Site Layout - BP10

Fig 2



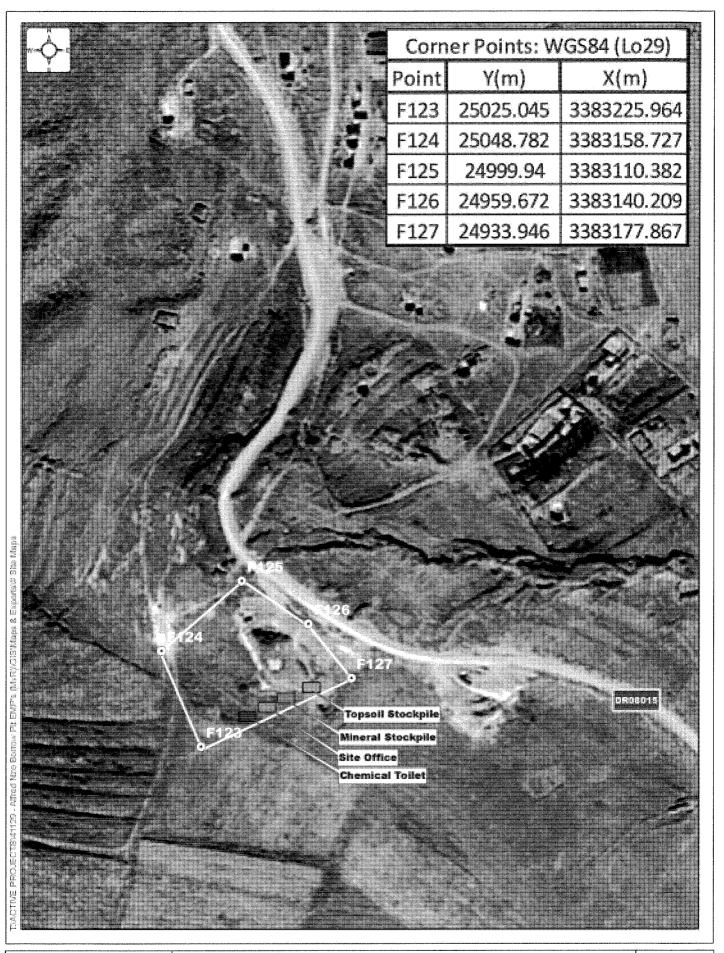


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Alfred Nzo Borrow Pit EMP's Road: DR08015 Site Layout - BP11

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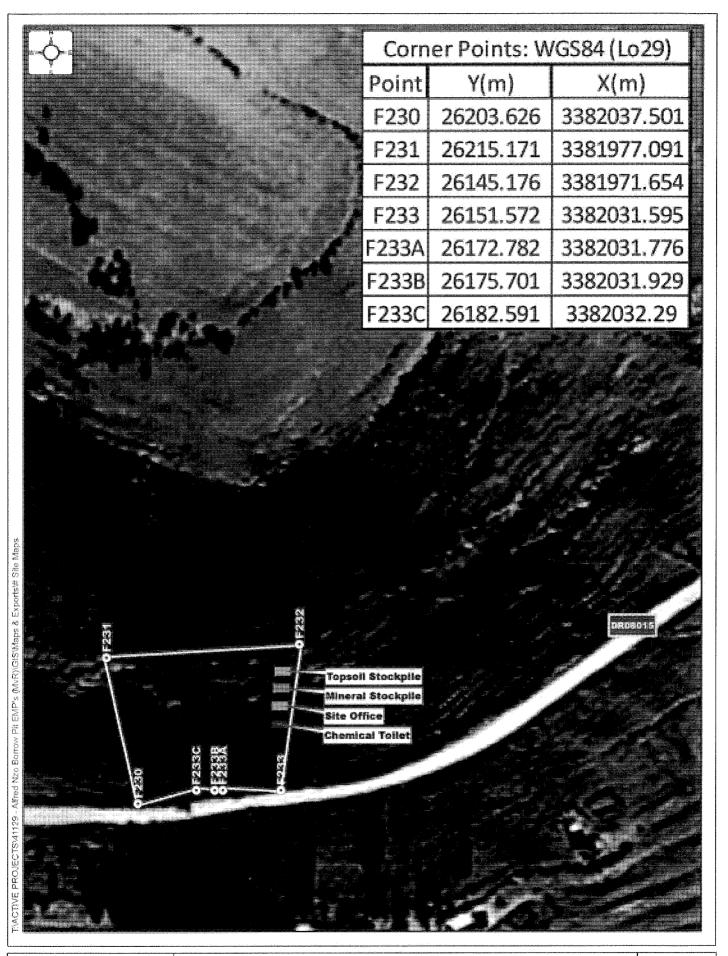
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Fig 2





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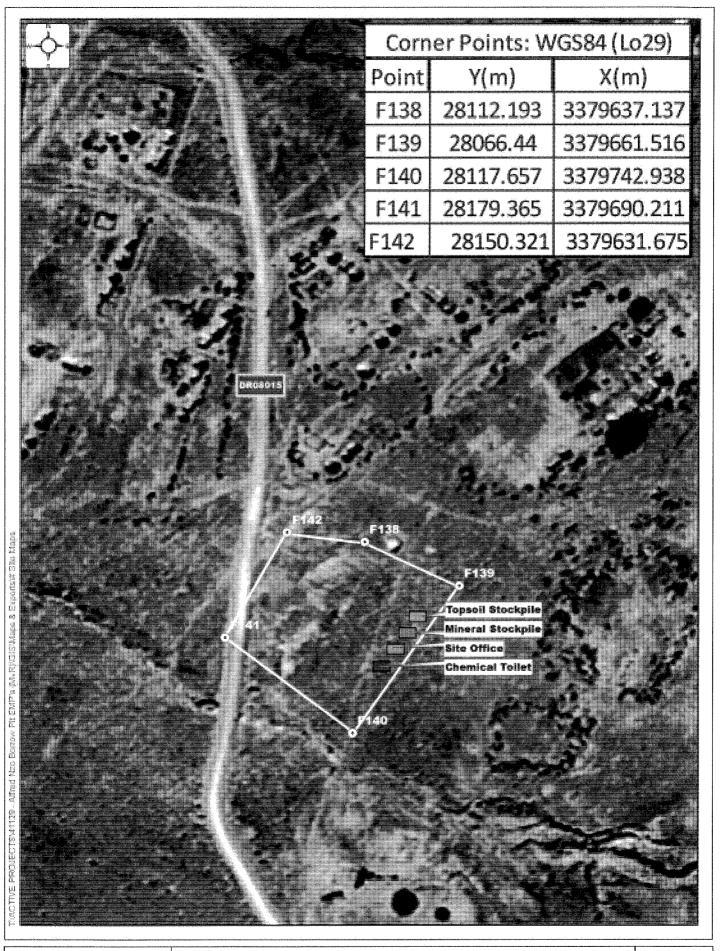
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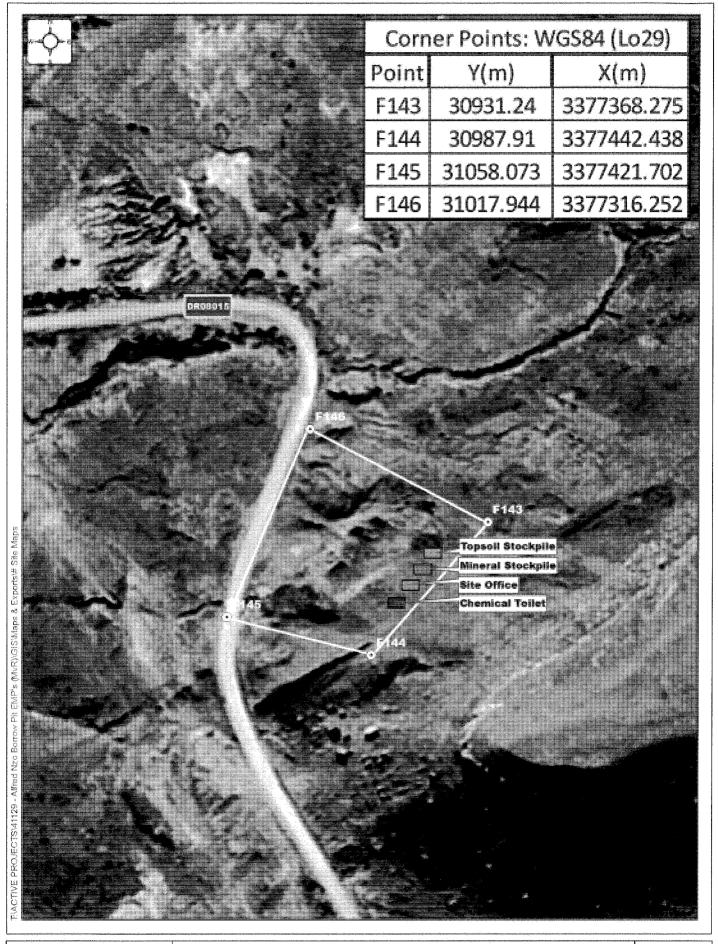
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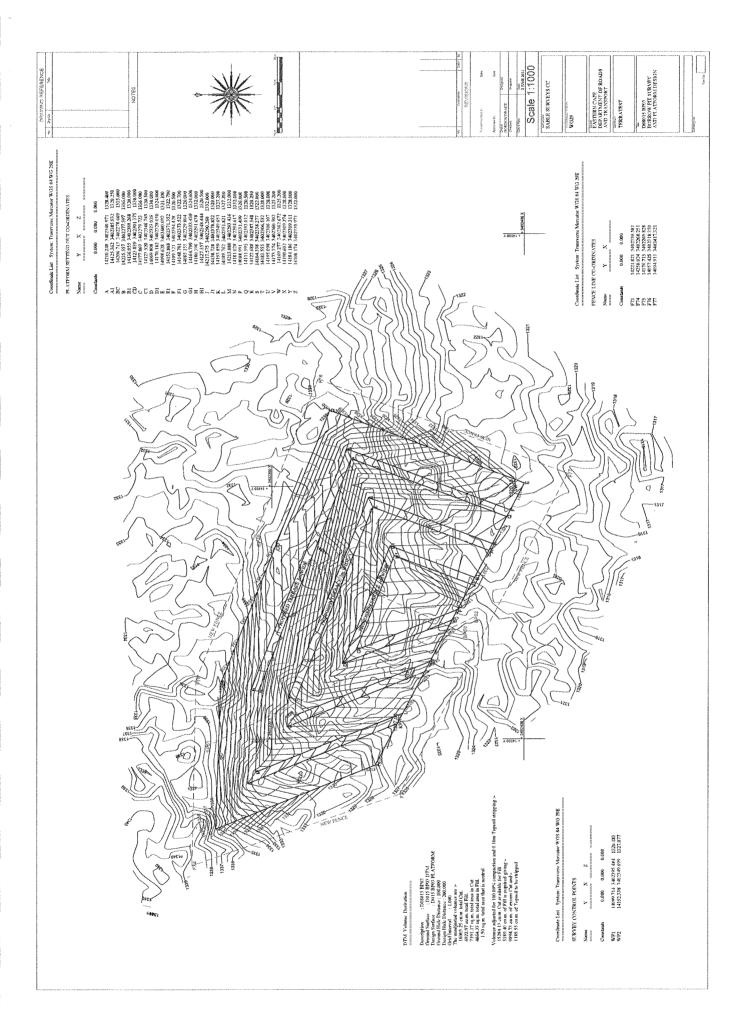
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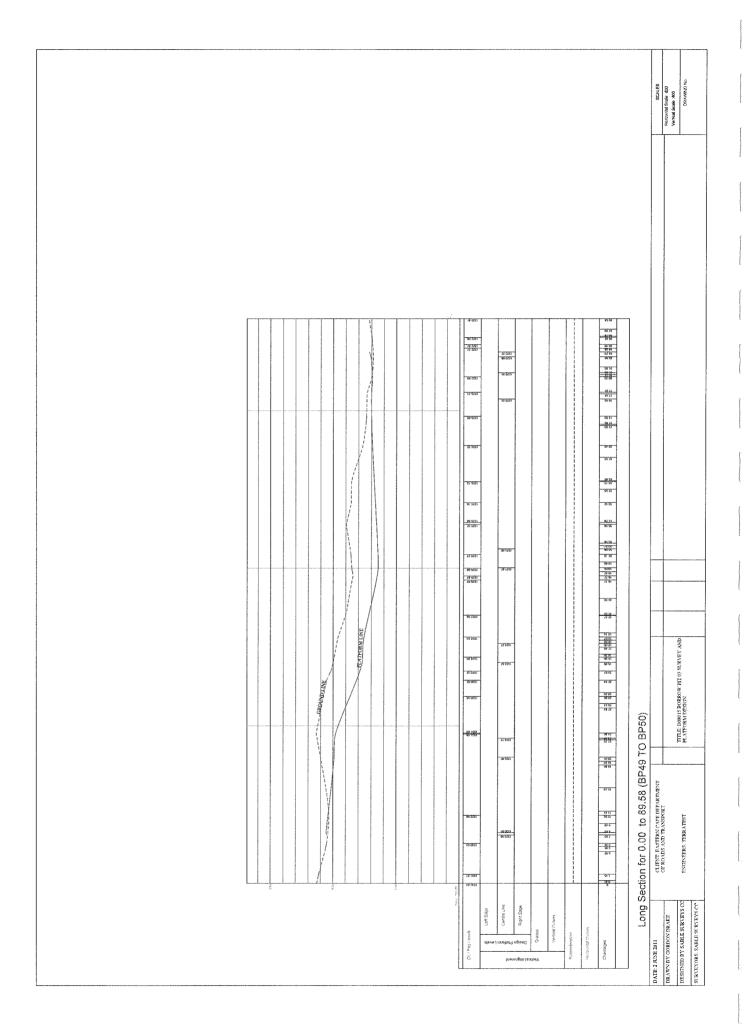


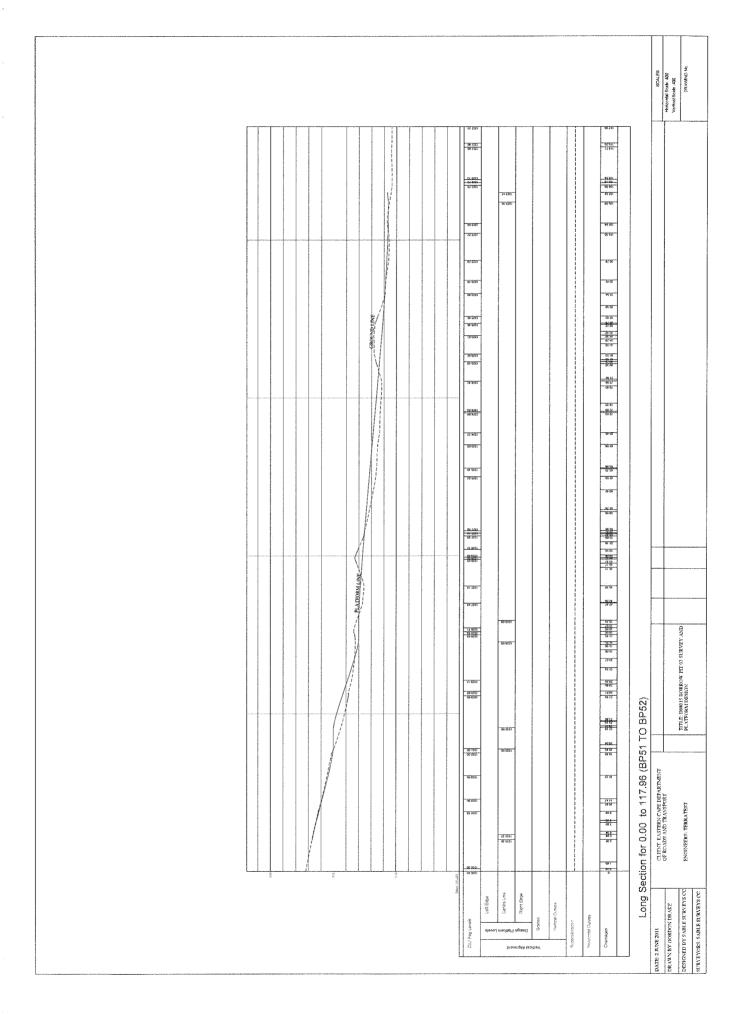


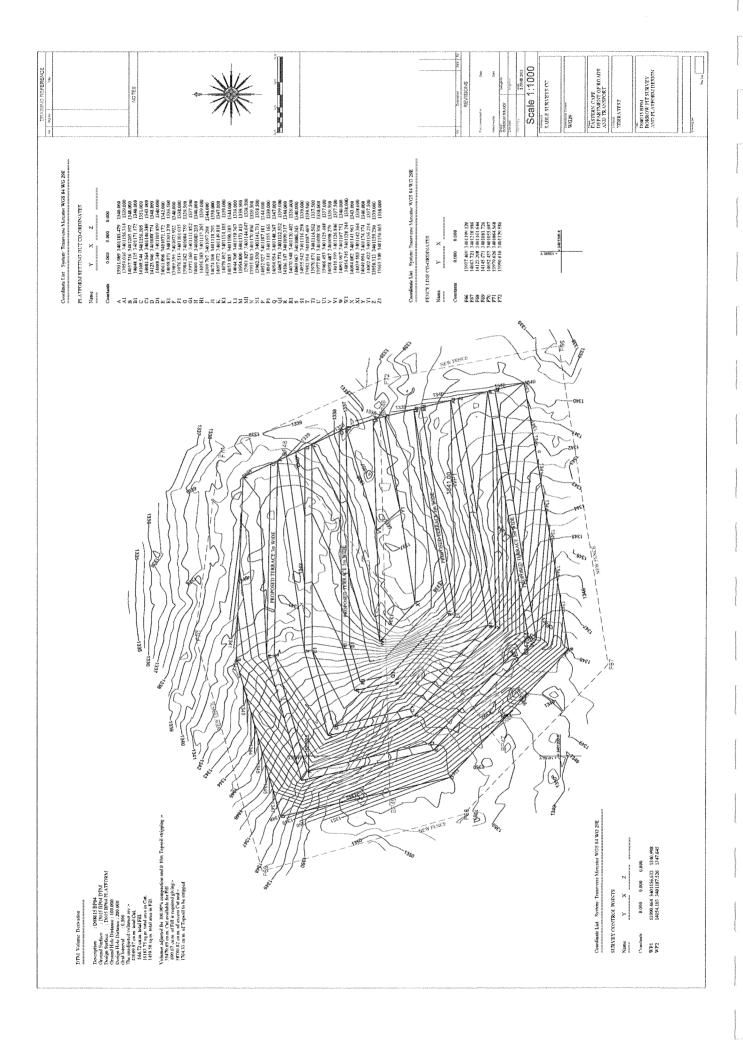
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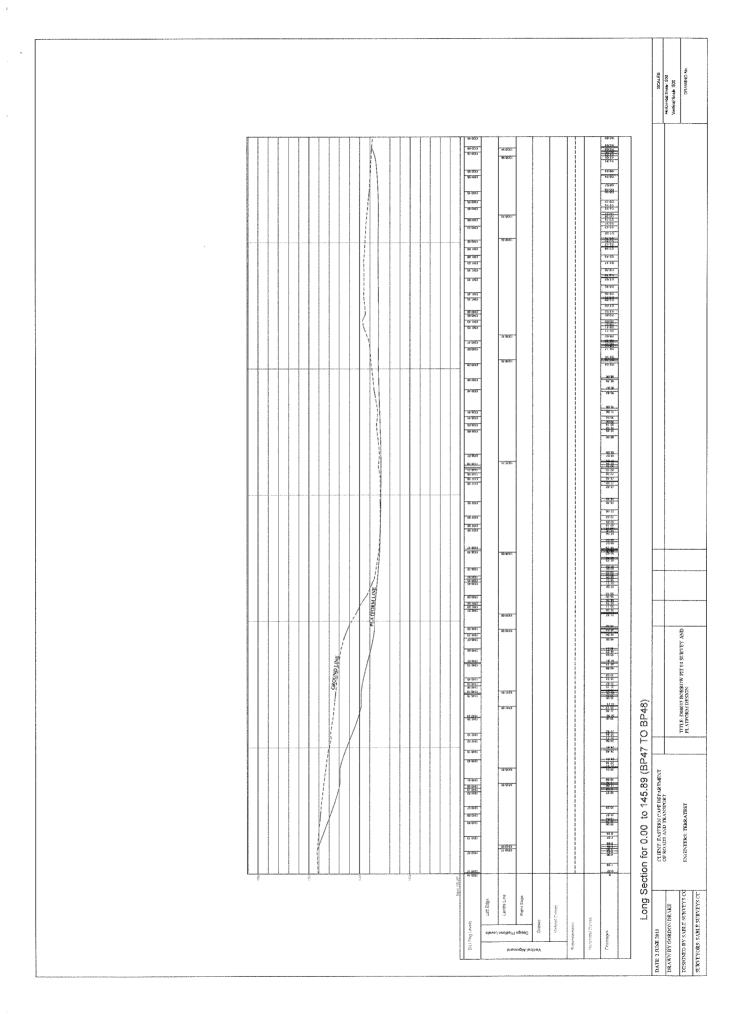
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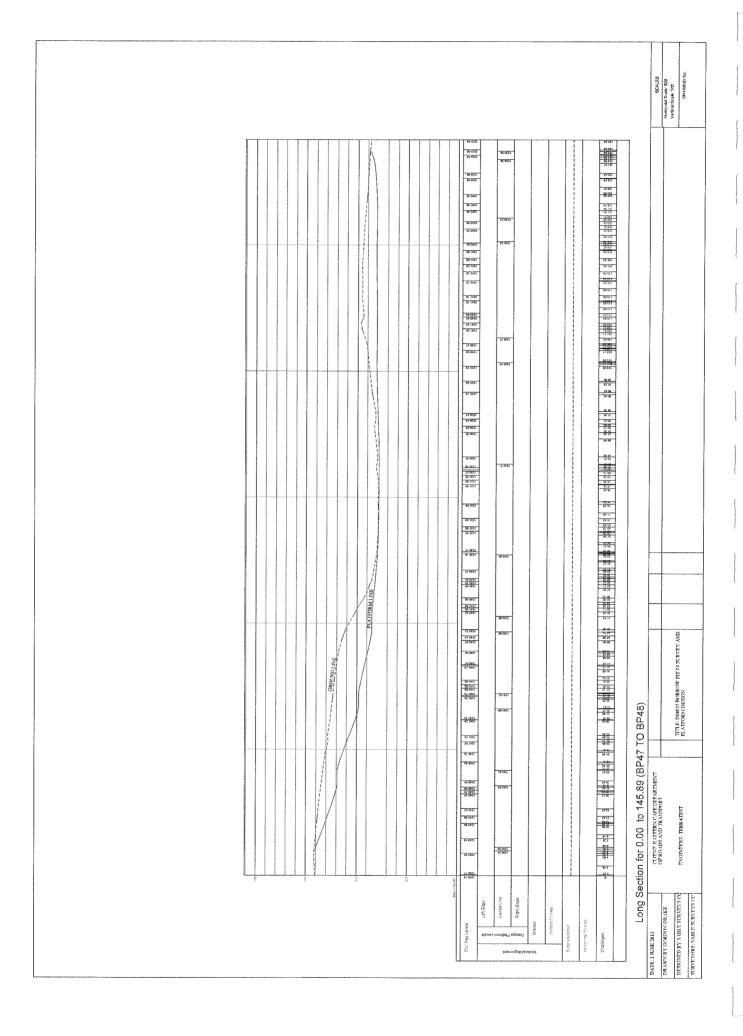


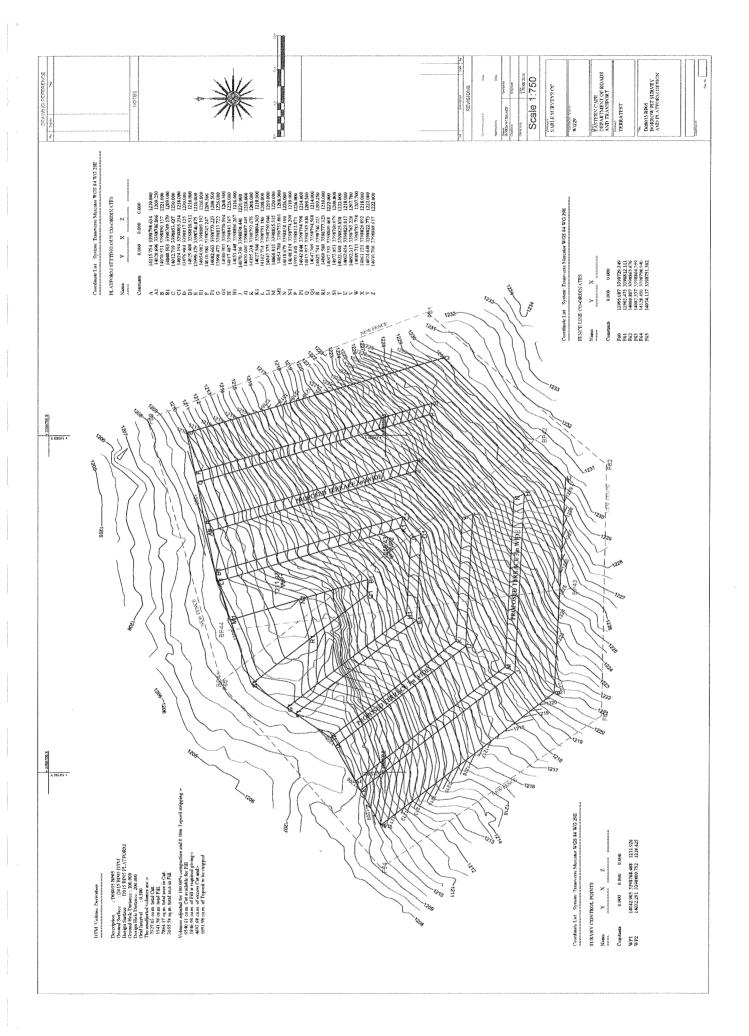


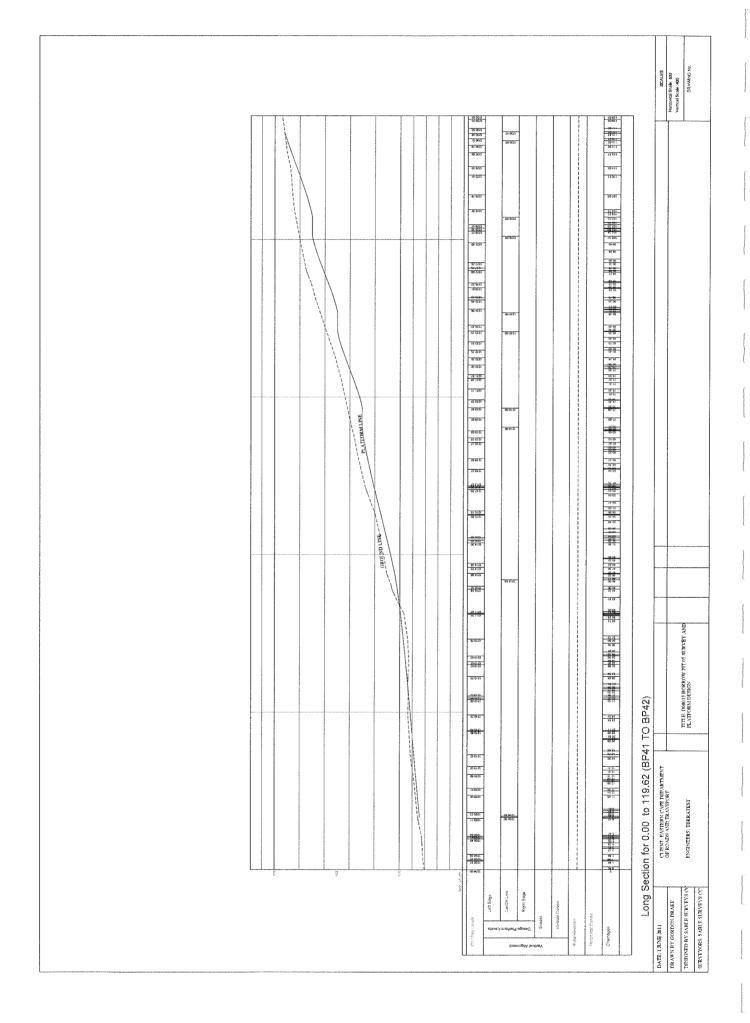


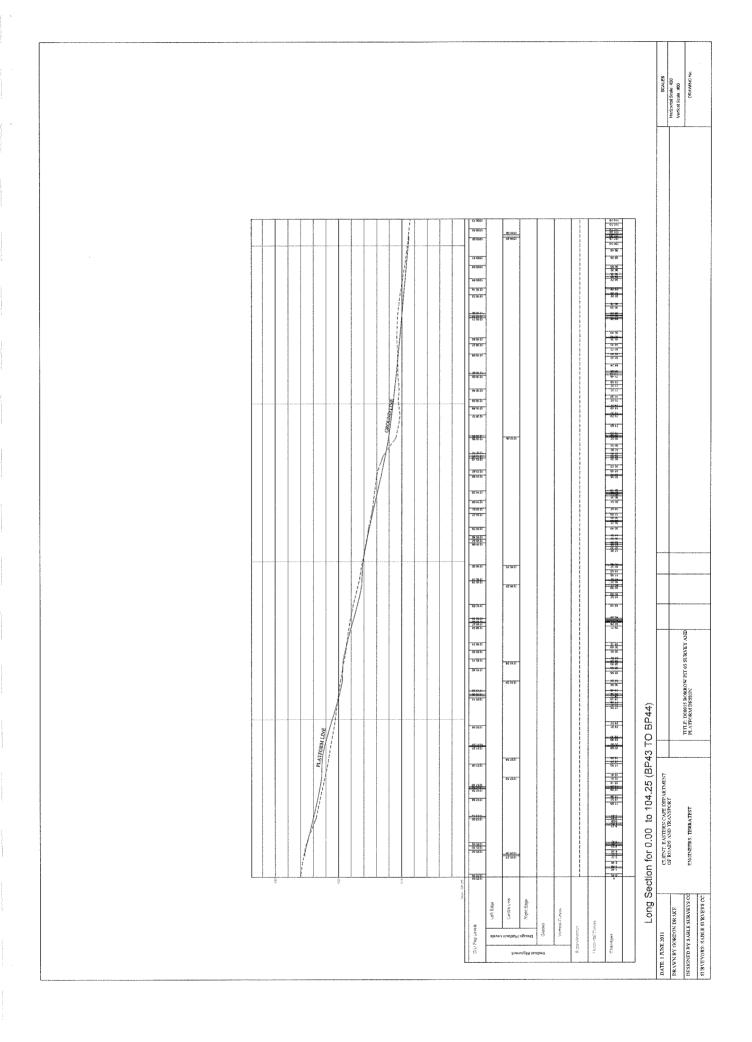


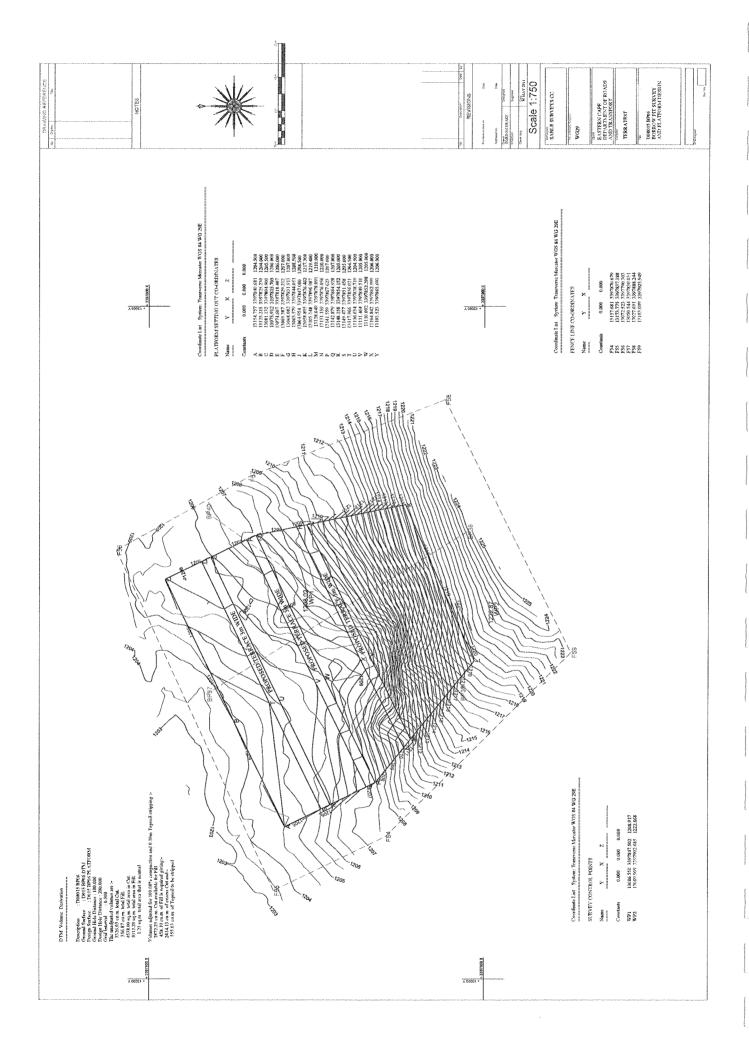


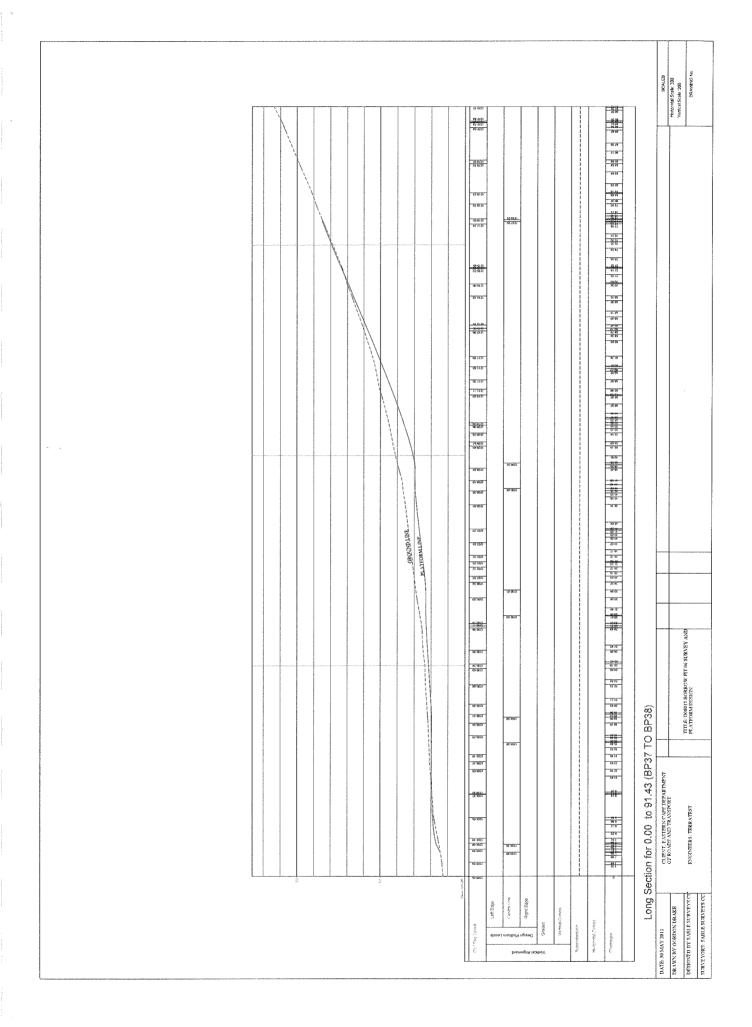


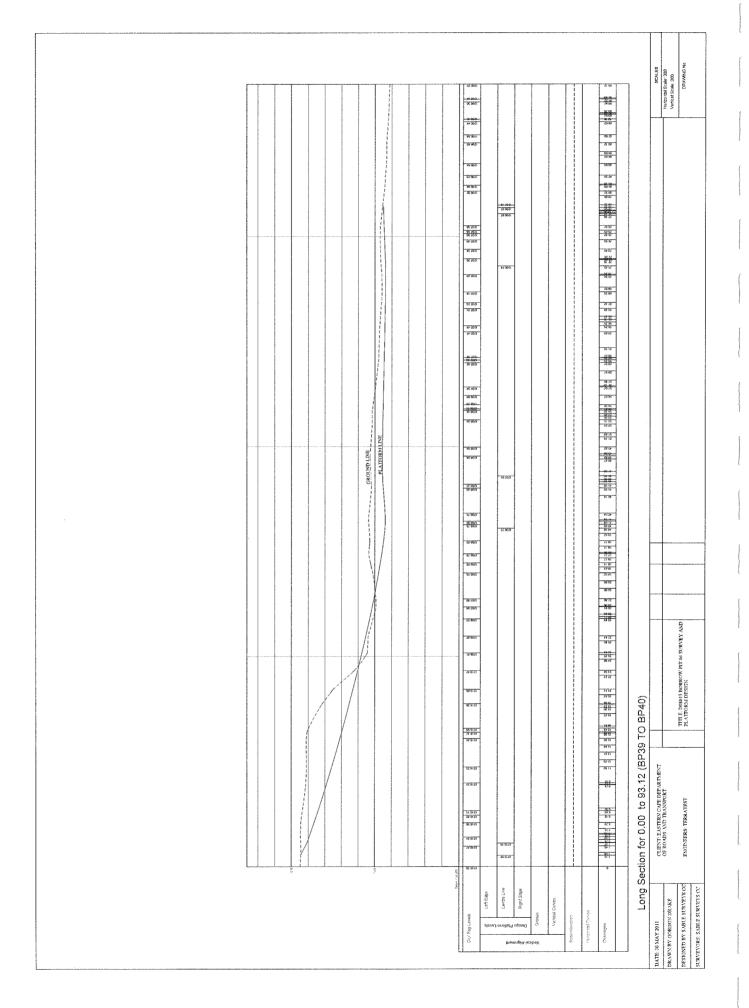


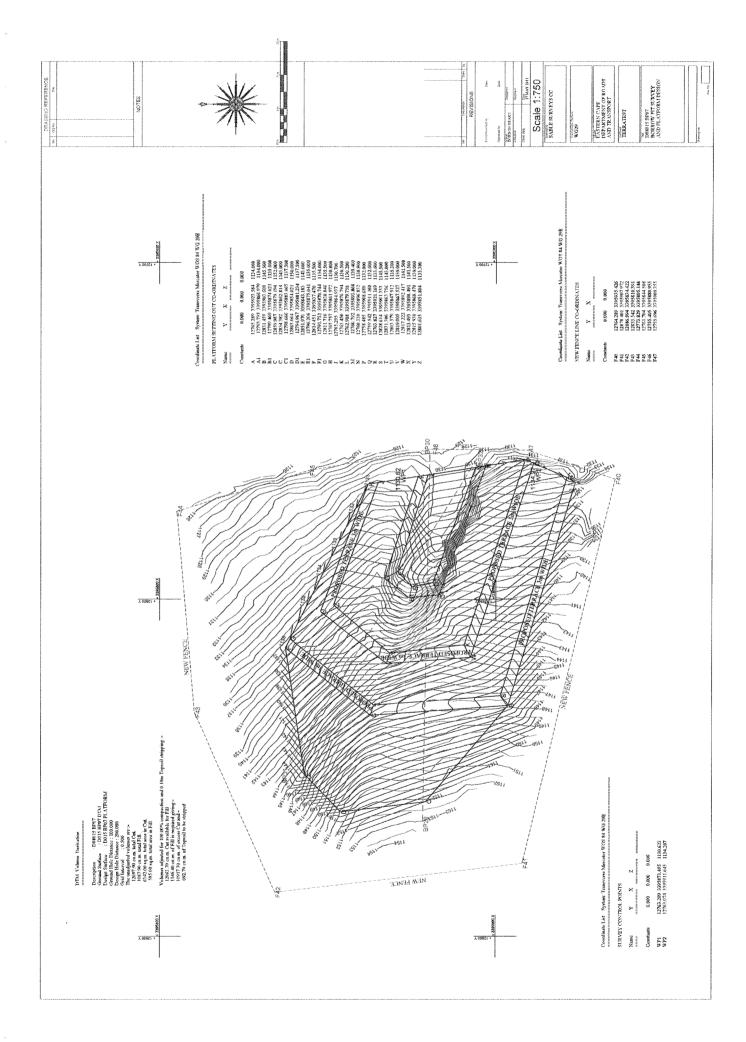


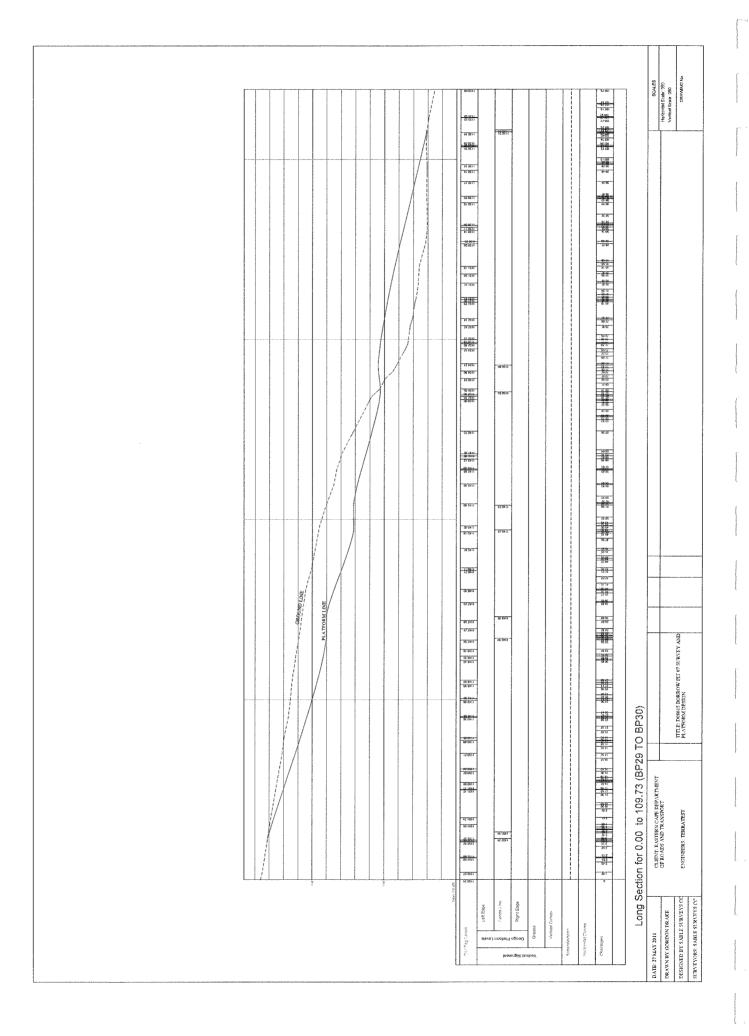






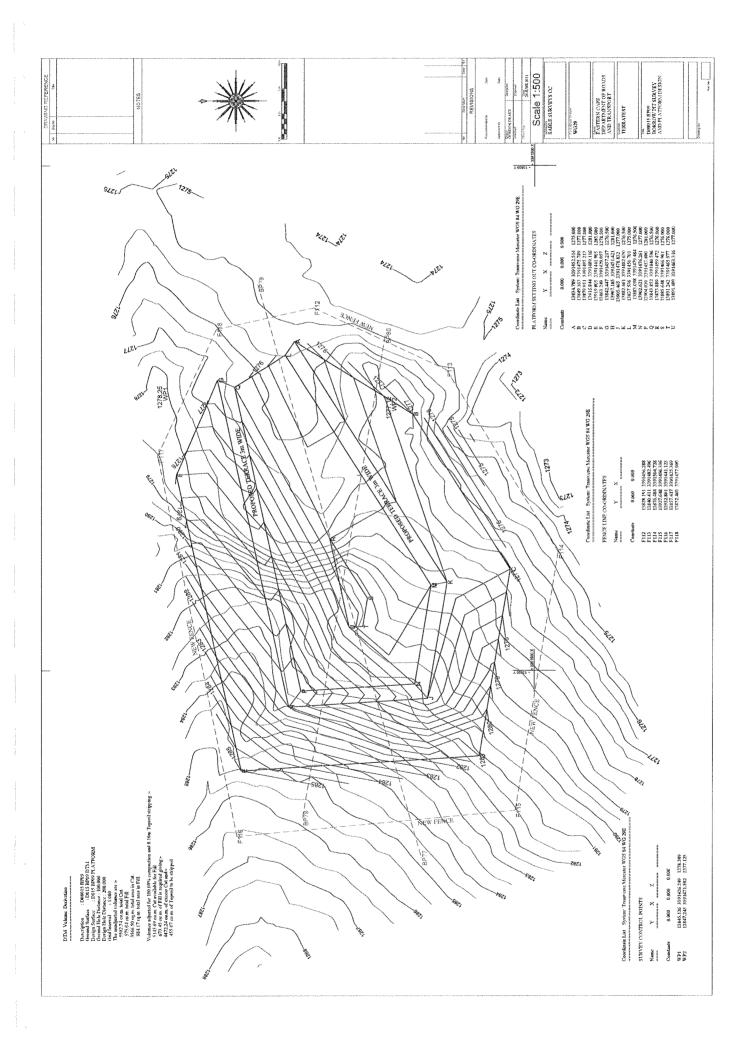




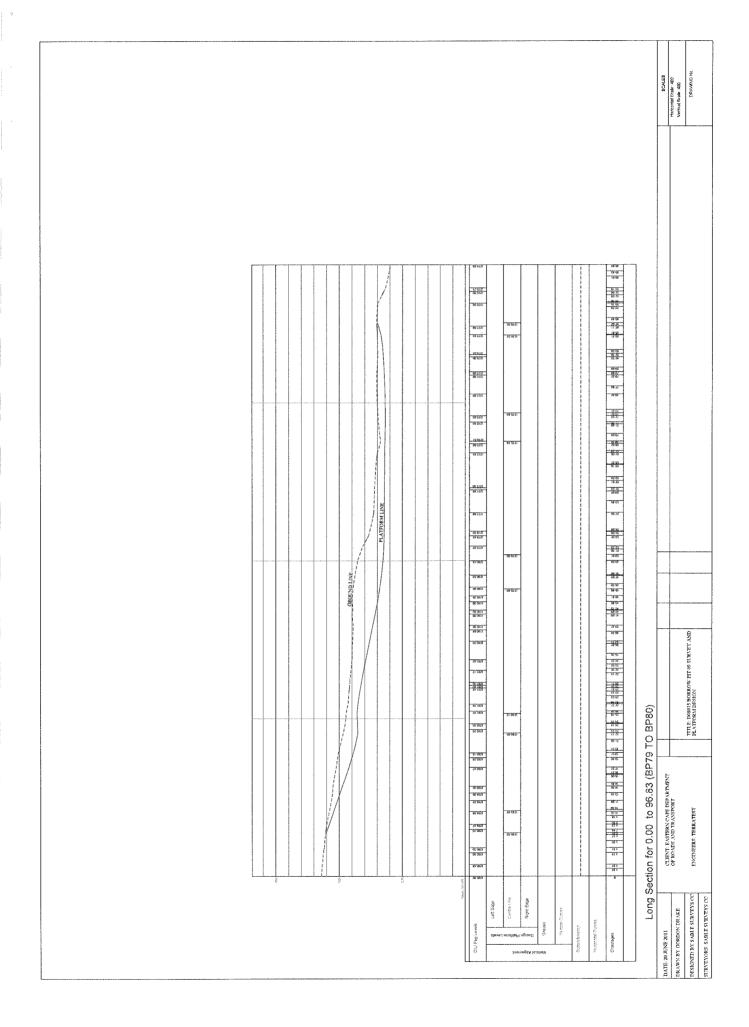


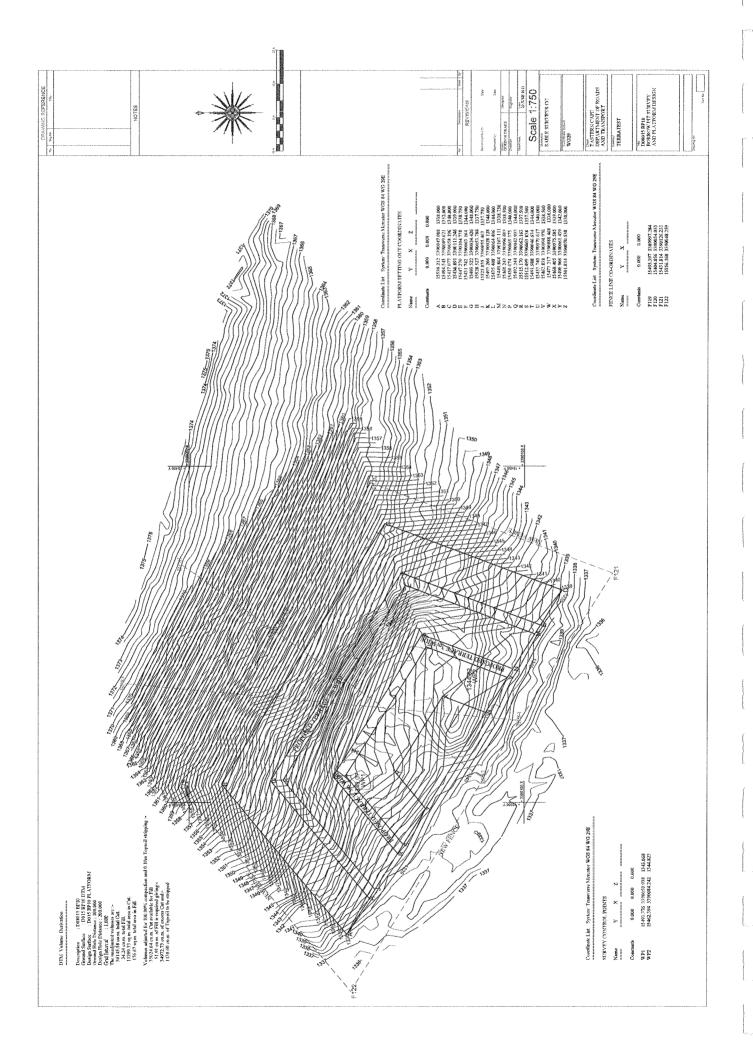
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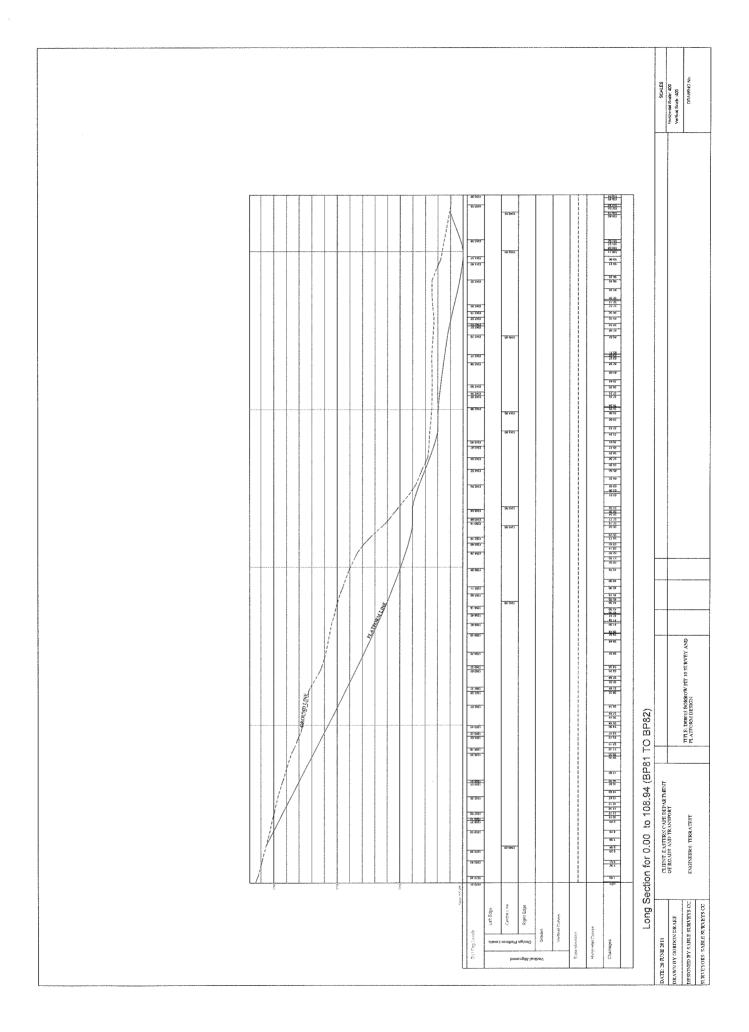
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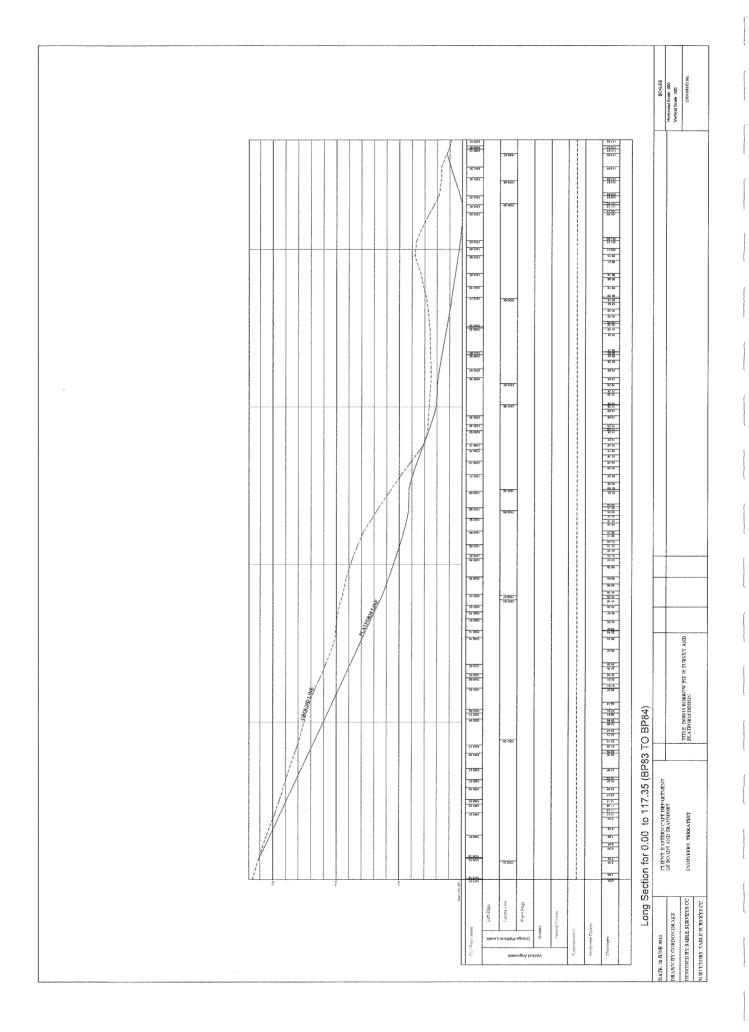


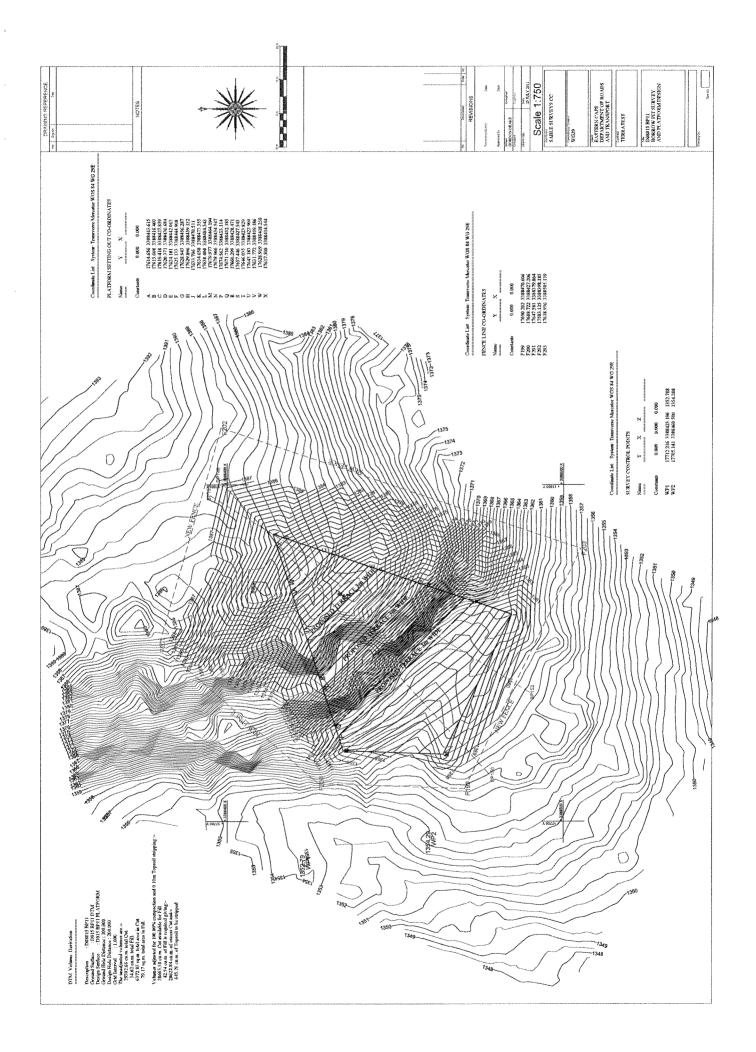
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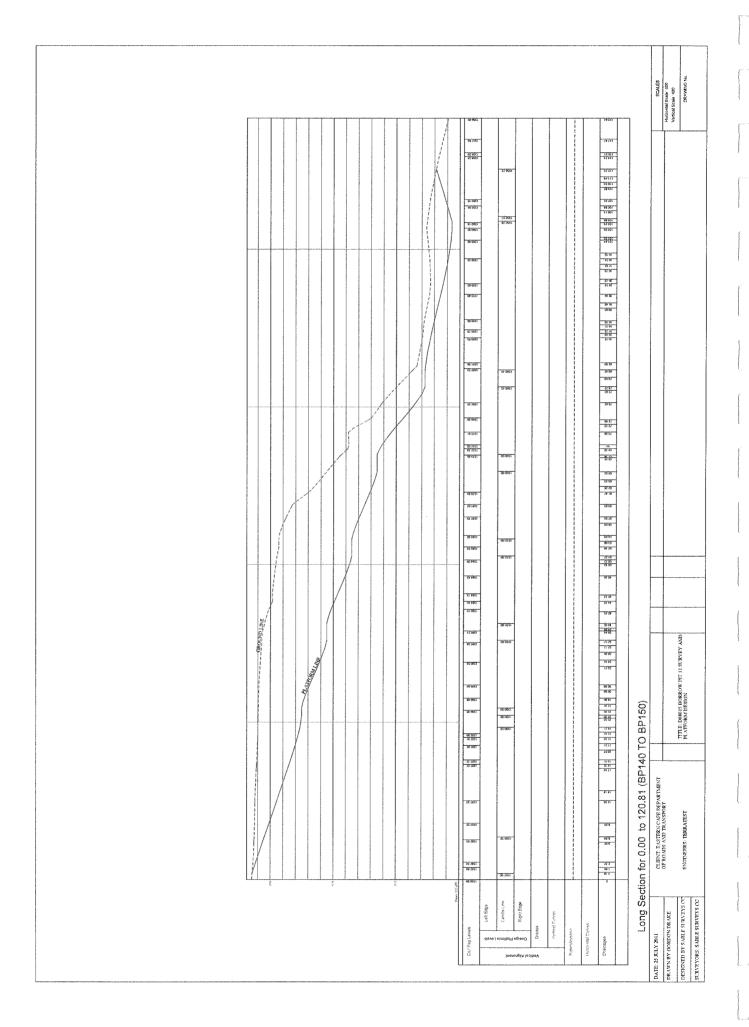


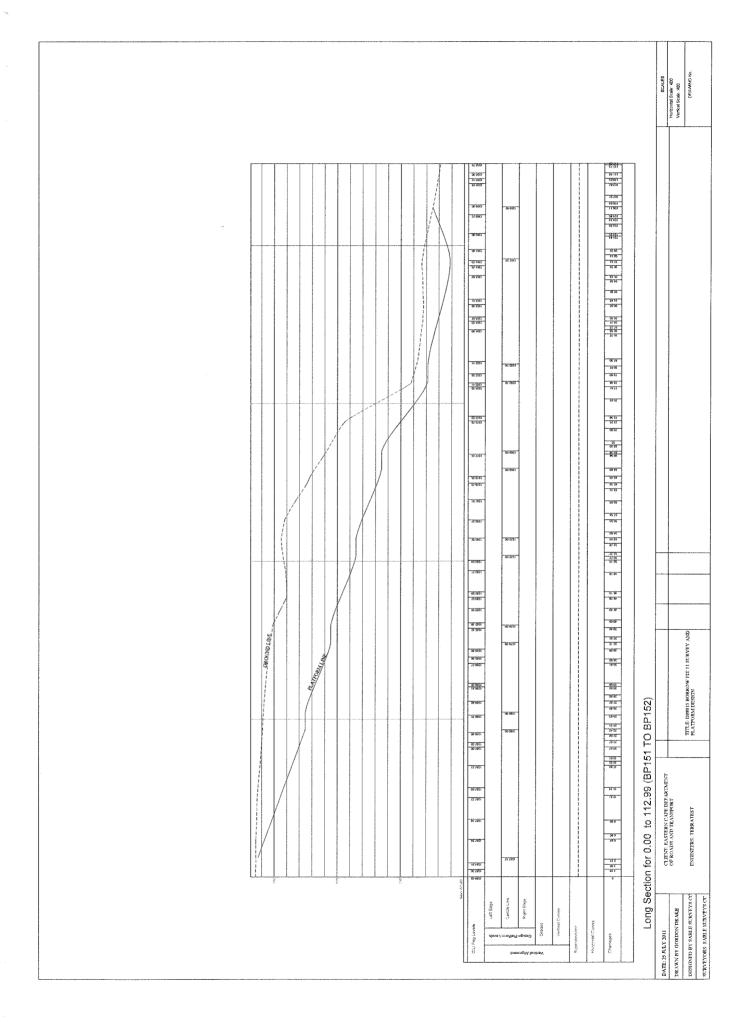


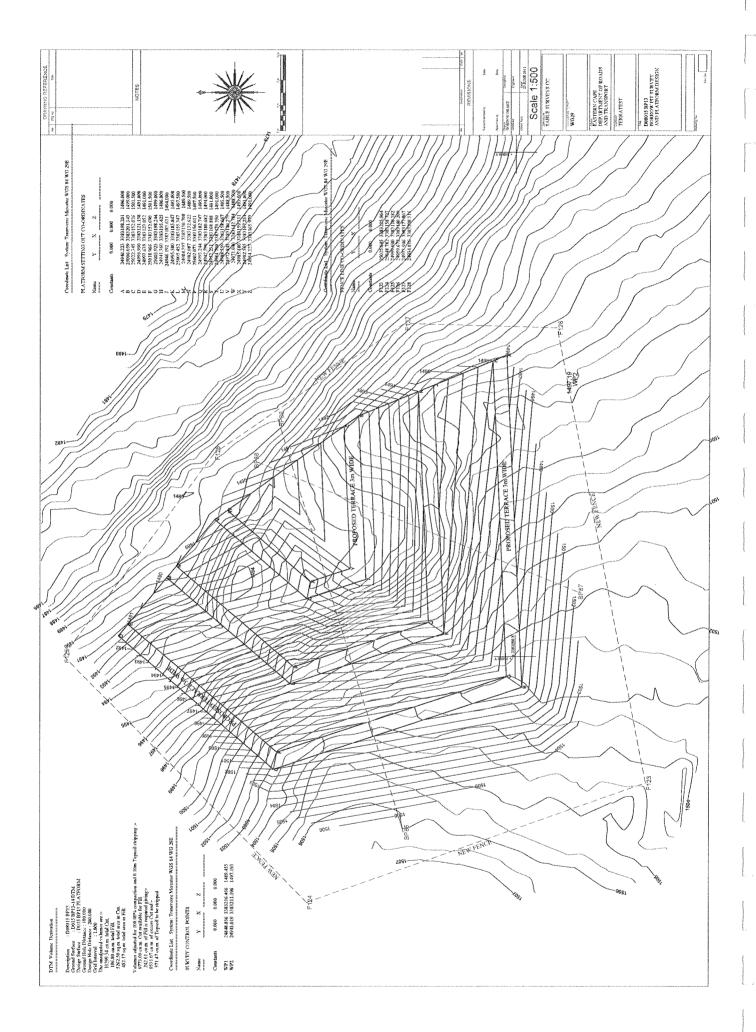


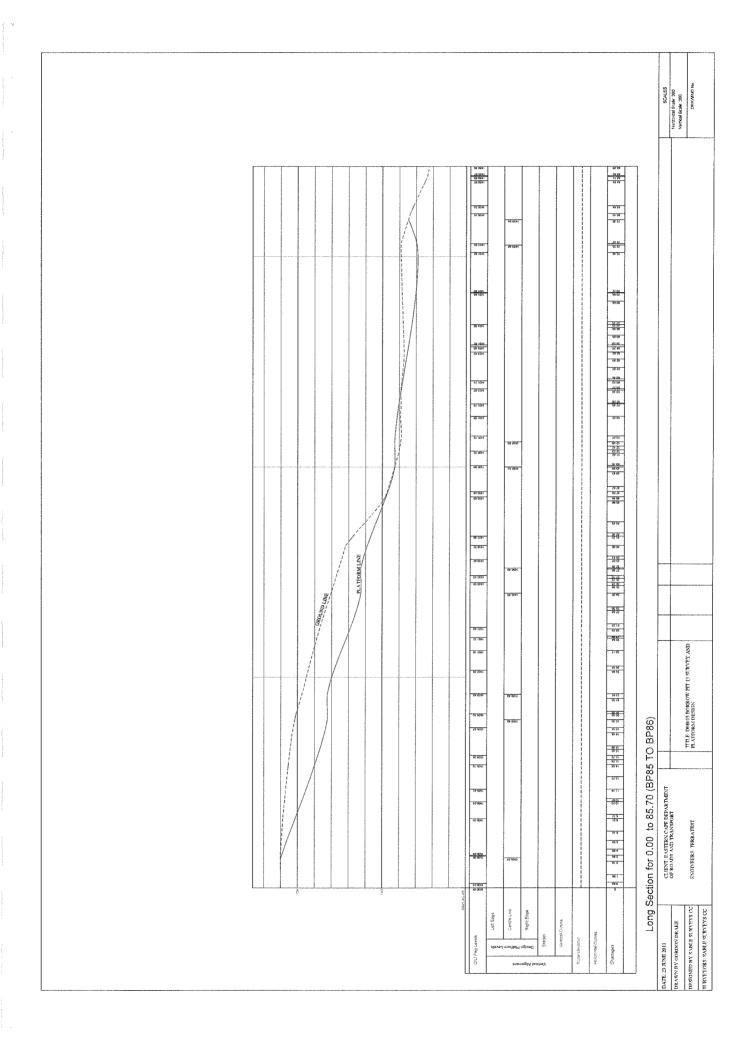


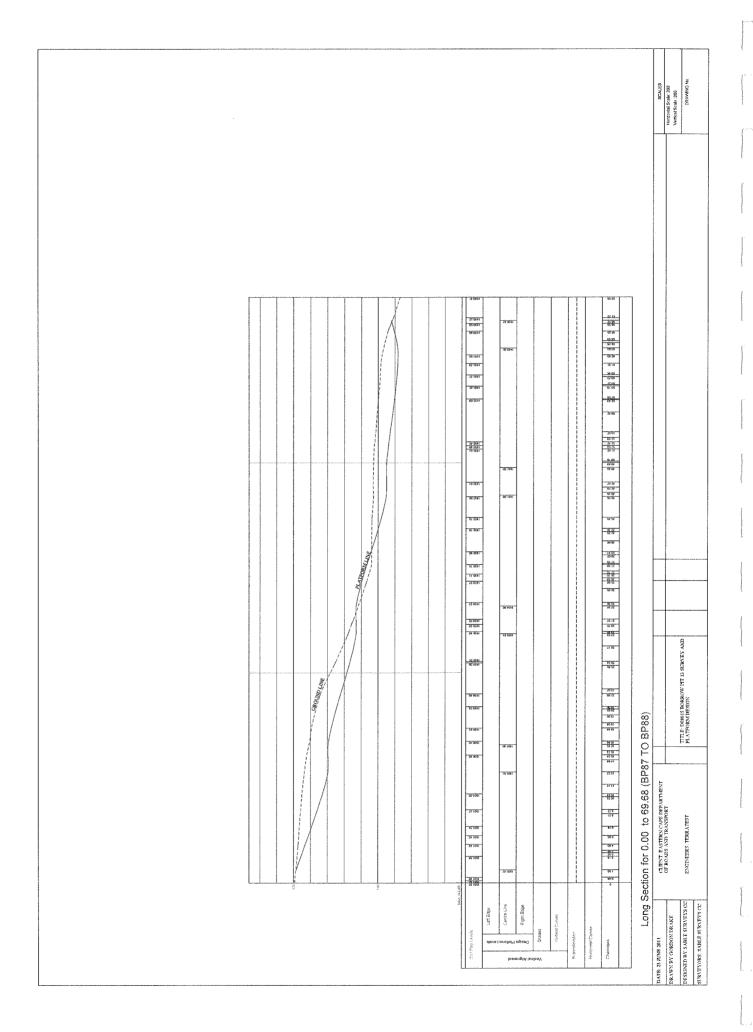


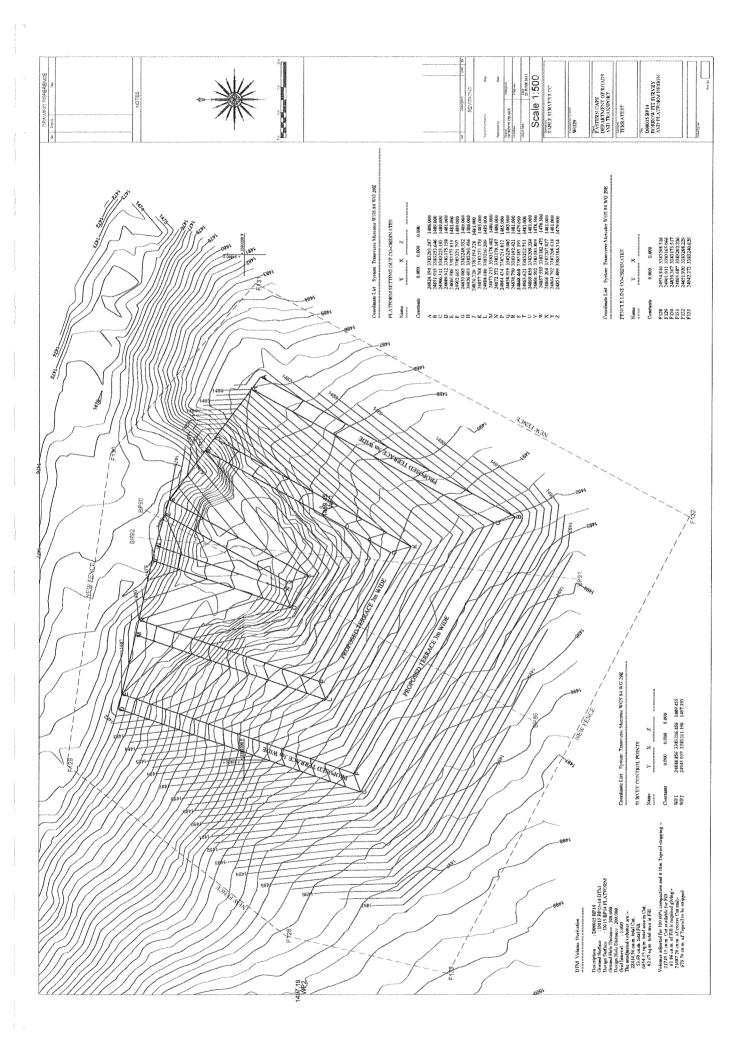


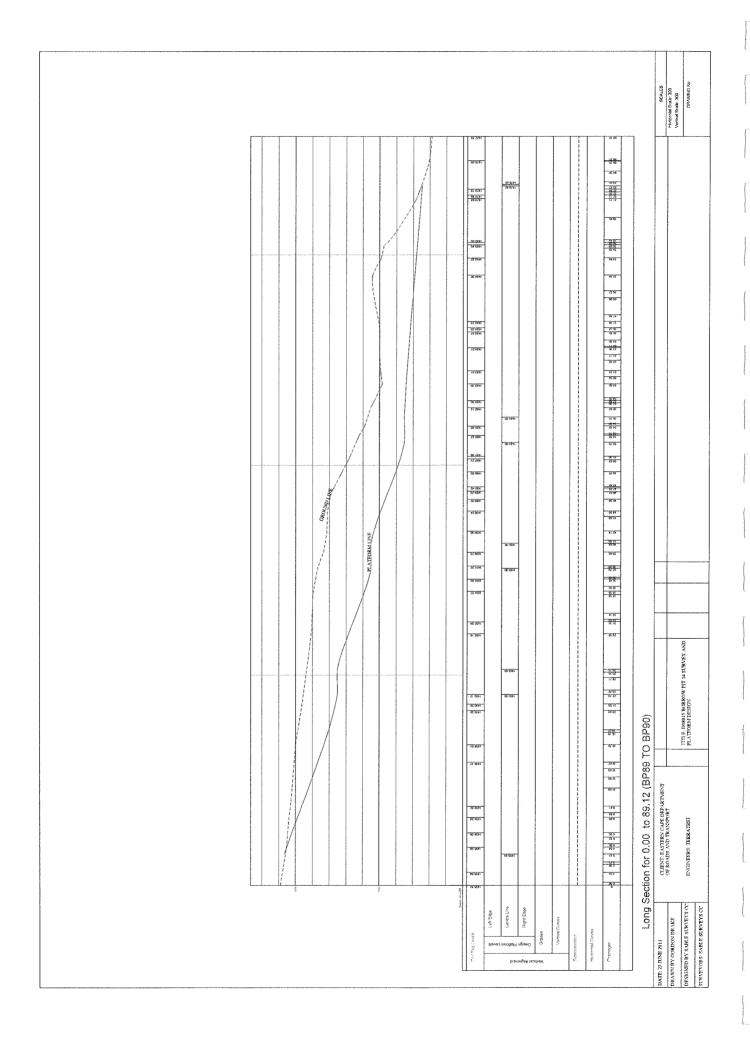


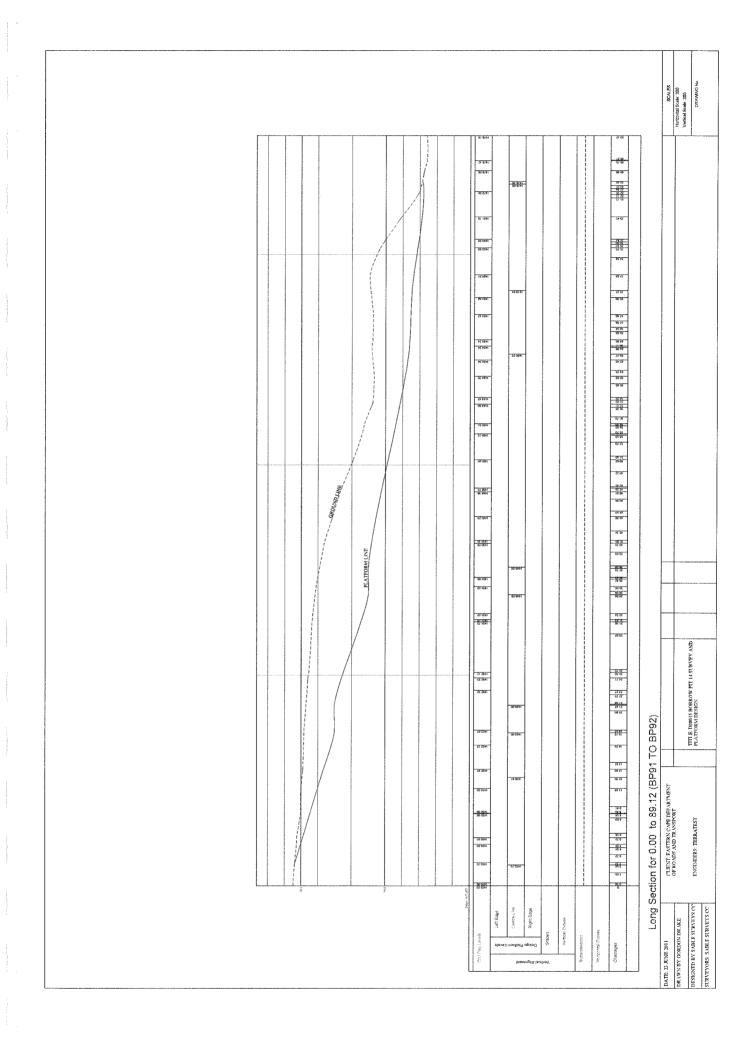


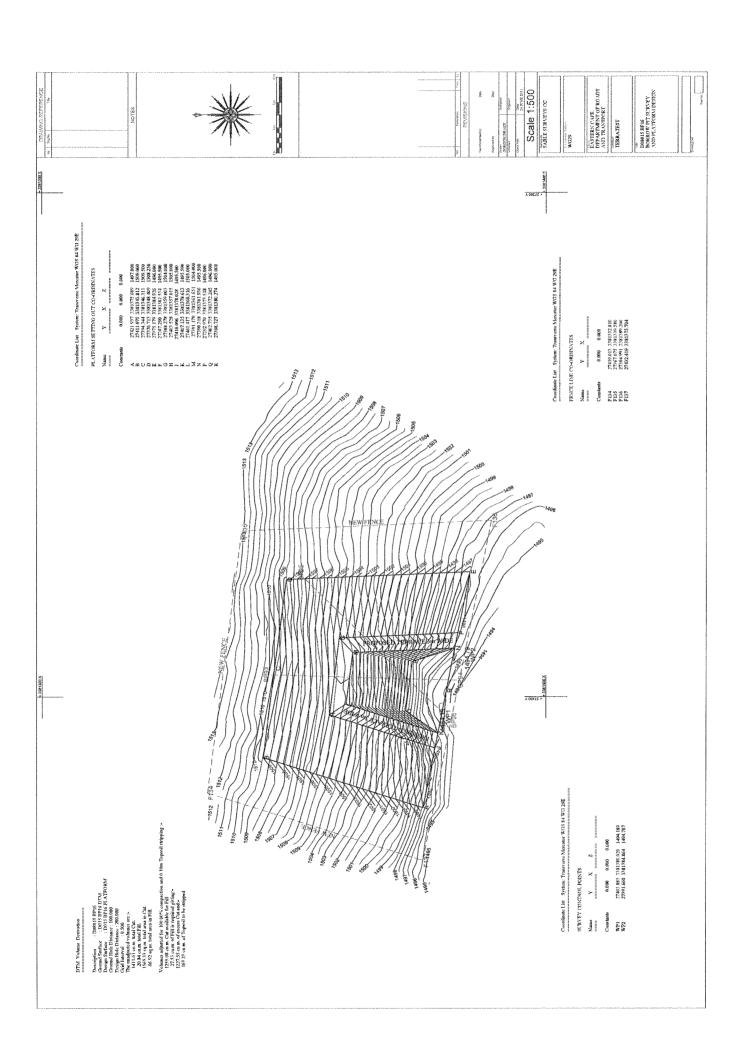


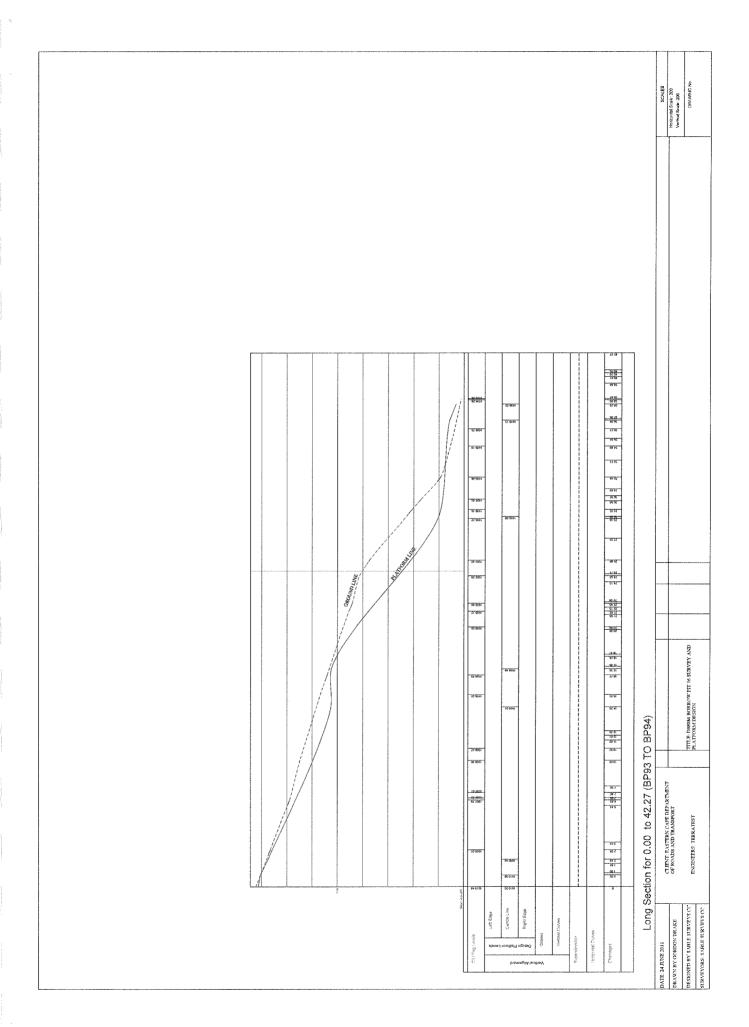


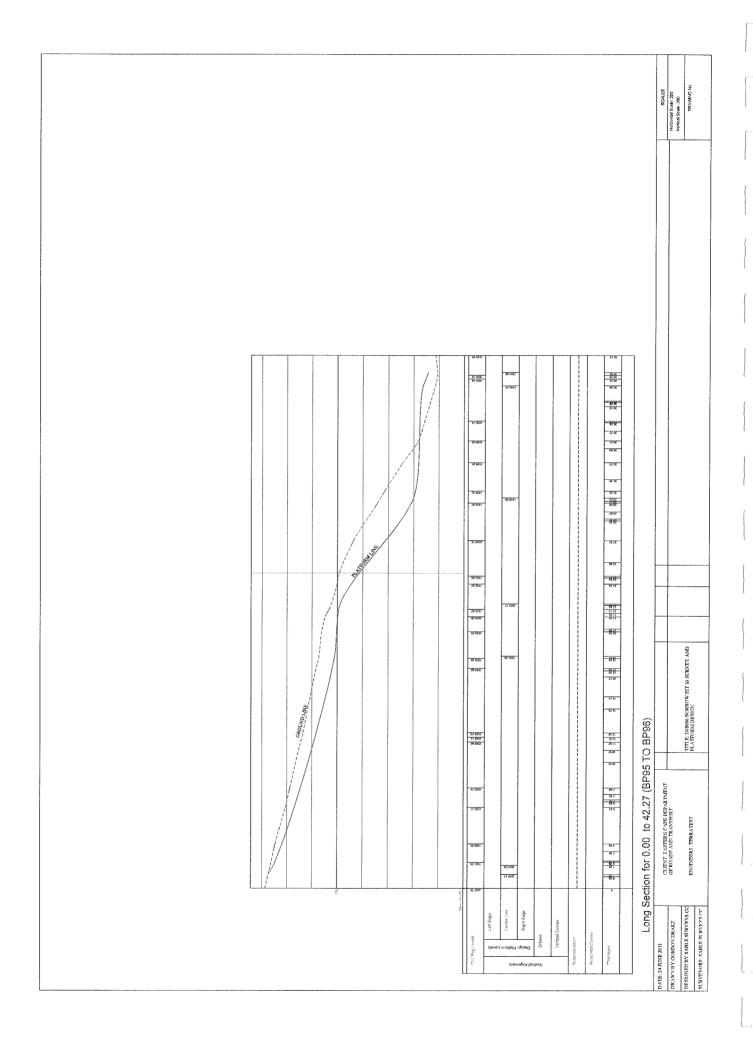


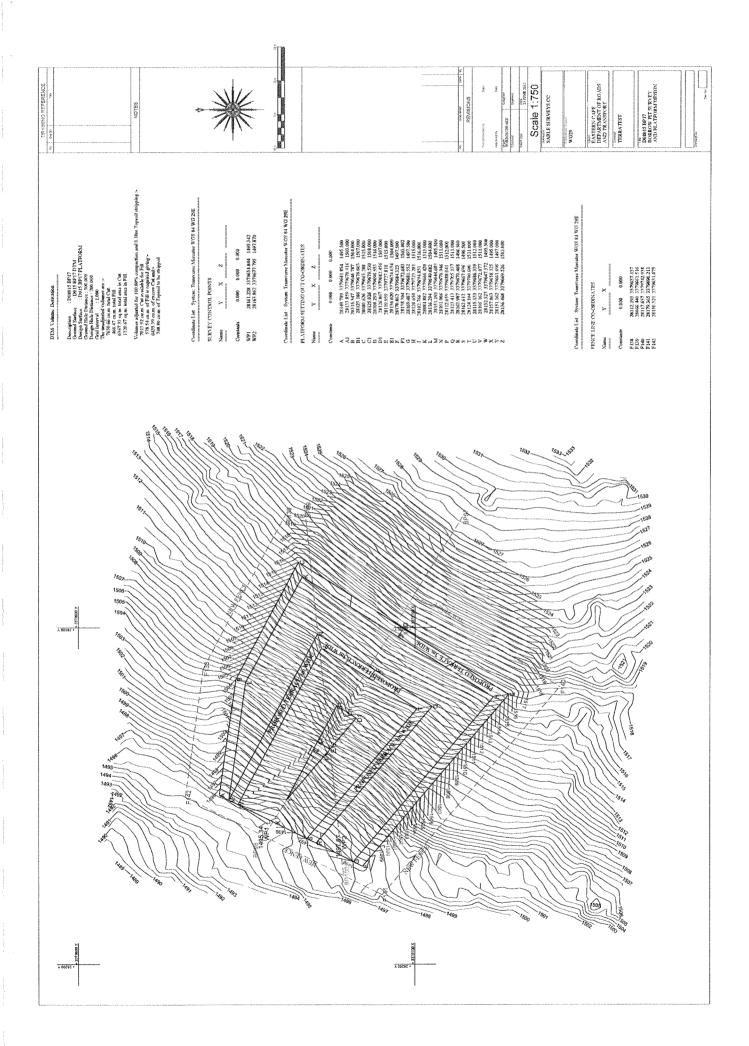


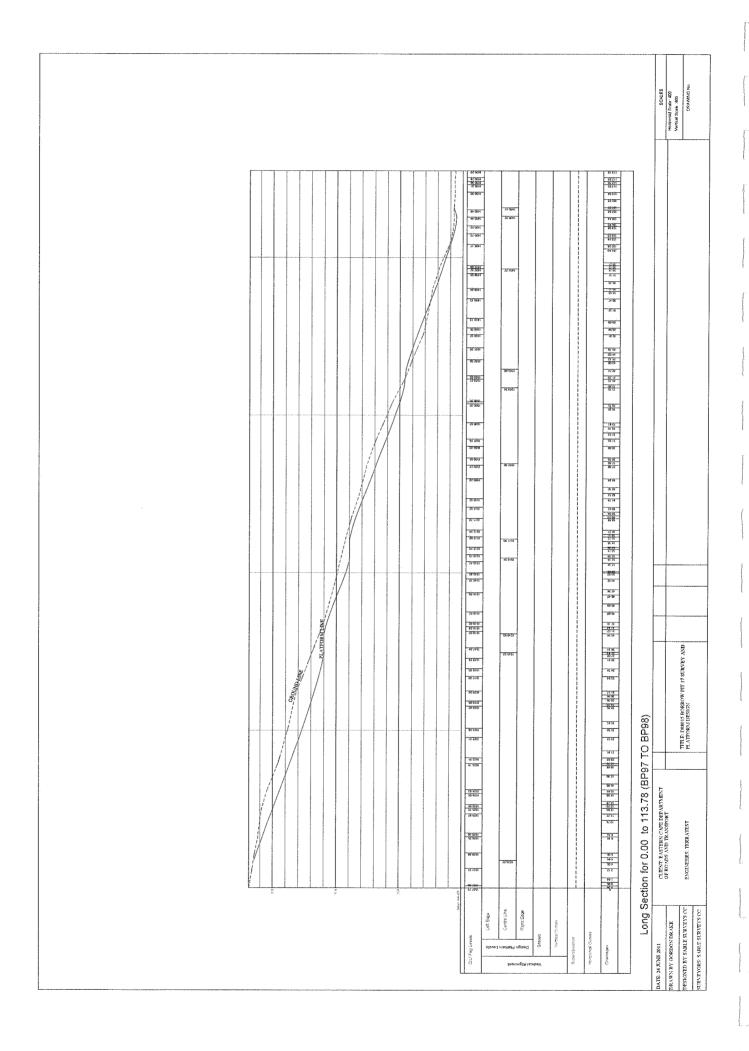


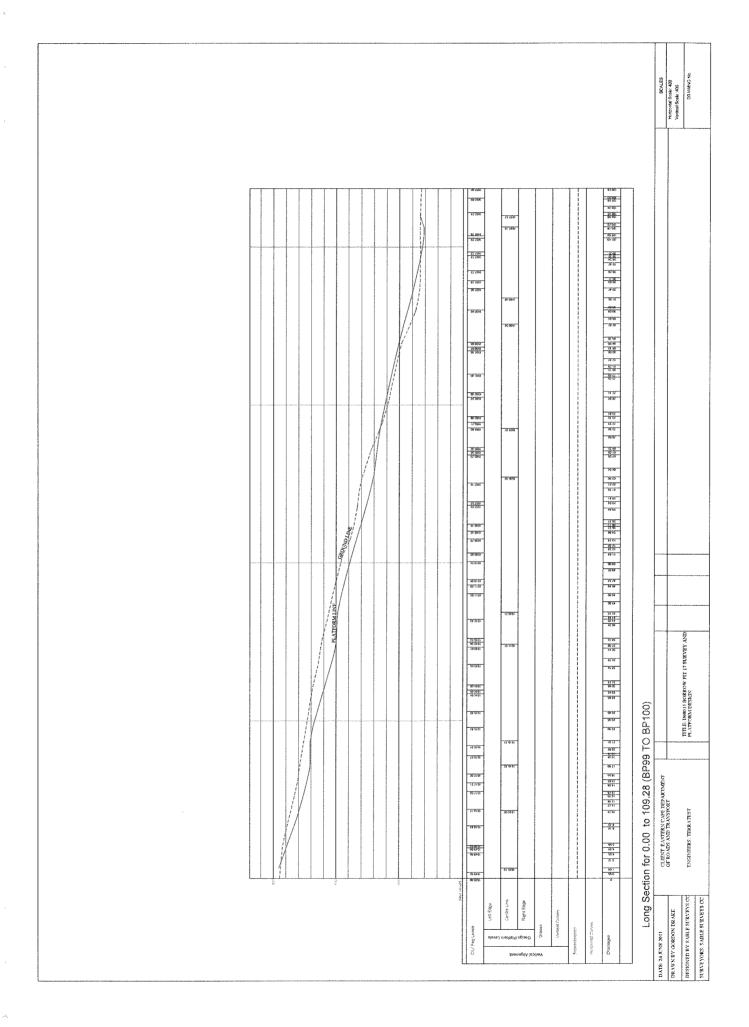


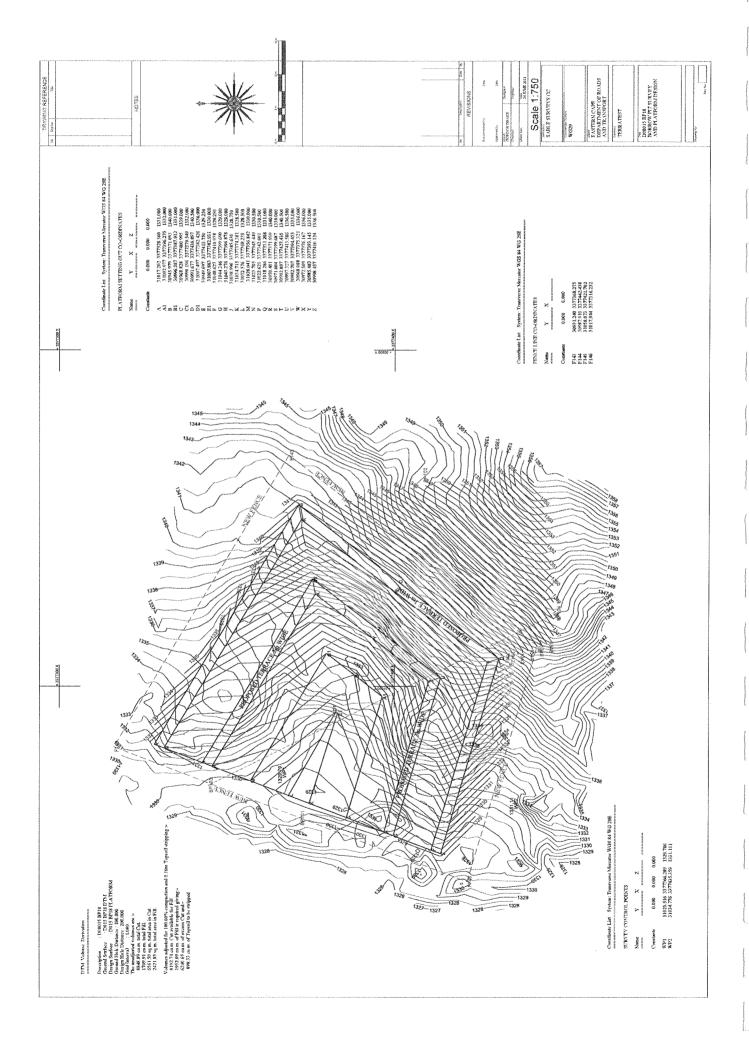


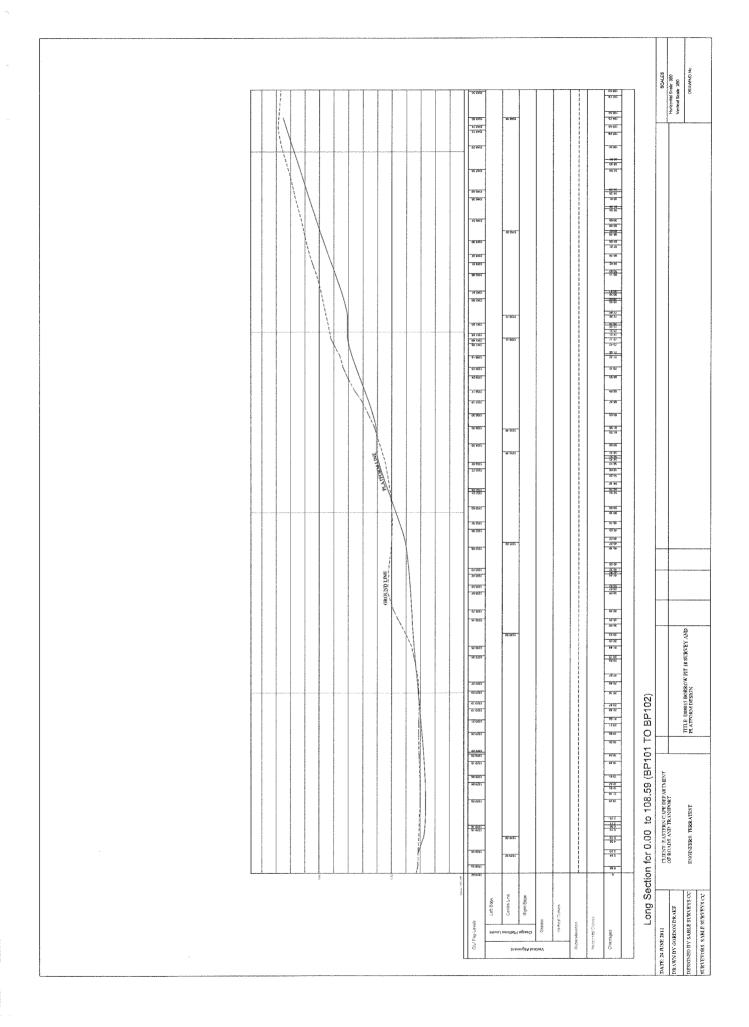












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APPENDIX B PUBLIC PARTICIPATION



Our Ref. 41129/IS

5 July 2011

Eastern Cape Parks Board PO Box 11235 Southernwood East London 35200

Submitted via post on 05 July 2011.

ATTENTION: EASTERN CAPE PARKS BOARD

Dear Sir/Madam,

BID'S FOR THE APPLICATION FOR BORROW PITS ALONG NINETEEN ROADS WITHIN THE ALFRED NZO DISTRICT MUNICIPALITY

Attached please find nineteen Background Information Documents (BID) for the Borrow Pit Applications for assorted materials, within the Alfred Nzo District Municipality.

Any comments are to be directed to the details provided hereunder or on the BID's. Please note that comments are to be extended before the 26 July 2011.

Yours faithfully,

Imke Summers FOR: TERRATEST (Pty) Ltd

Email: summersi@terratest.co.za



5 July 2011

Our Ref. 41129/IS

South African Heritage Resource Agency PO Box 759 Southernwood East London 5200

Submitted via post on 05 July 2011.

ATTENTION: SAHRA

Dear Mr T. Lungile

BID'S FOR THE APPLICATION FOR BORROW PITS ALONG NINETEEN ROADS WITHIN THE ALFRED NZO DISTRICT MUNICIPALITY

Attached please find nineteen Background Information Documents (BID) for the Borrow Pit Applications for assorted materials, within the Alfred Nzo District Municipality.

Any comments are to be directed to the details provided hereunder or on the BID's. Please note that comments are to be extended before the 26 July 2011.

Yours faithfully,

Imke Summers FOR: TERRATEST (Pty) Ltd

Email: summersi@terratest.co.za



Our Ref. 41129/IS

5 July 2011

WESSA 26 Lawrence Street Central Hill Port Elizabeth 6001

Submitted via post on 05 July 2011.

ATTENTION: WESSA

Dear Dr. Jenny Gon

BID'S FOR THE APPLICATION FOR BORROW PITS ALONG NINETEEN ROADS WITHIN THE ALFRED NZO DISTRICT MUNICIPALITY

Attached please find nineteen Background Information Documents (BID) for the Borrow Pit Applications for assorted materials, within the Alfred Nzo District Municipality.

Any comments are to be directed to the details provided hereunder or on the BID's. Please note that comments are to be extended before the 26 July 2011.

Yours faithfully,

Imke Summers FOR: TERRATEST (Pty) Ltd

Email: summersi@terratest.co.za



Alfred Nzo Borrow Pit Investigation Background Information Document: DR08015

Our Reference: 41129



Prepared for:

Eastern Cape Transport
Stellenbosch Park
Flemming Street
Schornville
King William's Town
5601



CONTROLAB

Prepared for:

Controlab CC.

10 St Pauls Rd

East London,

Eastern Cape

5201

Tel: +27 43 722 5420



Prepared by:

Terratest (Pty) Ltd PO Box 794 Hilton 3201

Tel: +27 33 343 6789



BACKGROUND INFORMATION DOCUMENT FOR THE INVESTIGATION AND PROPOSED APPLICATION OF BORROW PITS IN THE ALFRED NZO DISTRICT OF THE EASTERN CAPE

1. Introduction

Terratest (Pty) Ltd was appointed by Controlab CC. on behalf of the Eastern Cape Department of Roads and Transport, to manage the environmental investigation and permitting process of numerous borrow pits in the Alfred Nzo District Municipality. The borrow pits are to be used as a source of materials for the resurfacing of numerous stretches of road throughout the region.

The objective of this Background Information Document (BID) is:

- To provide information and to notify and inform parties regarding the application procedure;
- To invite parties to register as Interested and Affected Parties (IAPs).

2. Site Locality

The borrow pits are situated on the DR08015, which starts north of Mount Frere and ends 27km from the town of Matatiele (See Figure 1 below). The DR08015 is 88.2 km's long and starts at the intersection with the N2 and ends at the intersection with the R56.

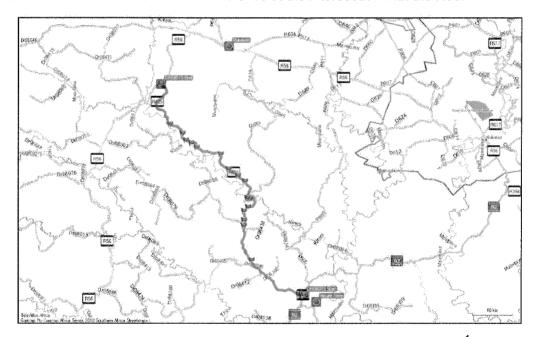


Figure 1. The alignment of the DR08015 (in pink) (Controlab CC).

4

¹ Controlab CC., Geotechnical Borrow Pit Assessment, Initial Assessment Report for the DR08015, December 2010.



The key co-ordinate points along the alignment are:

Point	Southerly co-ordinate	Easterly co-ordinate
BP01	S30° 53' 43.1"	E28° 59' 00.5"
BP03	S30° 44' 31.9"	E28° 51' 09.4"
BP04	S30° 43' 49.5"	E28° 51' 12.0"
BP05	S30° 42' 34.3"	E28° 51' 11.3"
BP06	S30° 42' 04.1"	E28° 51' 47.1"
BP07	S30° 41' 00.4"	E28° 51' 59.8"
BP08	S30° 40' 50.4"	E28° 51' 41.6"
BP09	S30° 38' 36.0"	E28° 51' 19.4"
BP10	S30° 31' 51.1"	E30° 50' 18.8"
BP11	S30° 36' 59.0"	E28° 48' 56.9"
BP13	S30° 34' 07.1"	E28° 44' 27.6"
BP14	S30° 34' 07.1"	E28° 44' 27.6"
BP15	S30° 33' 29.9"	E28° 43' 37.1"
BP16	S30° 33' 08.3"	E28° 42' 51.8"
BP17	S30° 32' 12.2"	E28° 42' 23.4"
BP18	S30° 30' 58.7"	E28° 40' 35.5"

3. Description of the Site

Of the eighteen borrow pits identified, sixteen were recommended in the Materials Investigation (Controlab CC.), as being suitable for future use. All sixteen pits are existing pits that has previously been mined for materials. Please see the table below for details regarding the location, materials composition and yield of each borrow pit:

Borrow Pit	Km log	Materials composition	Yield
BP01	1.4km	Decomposed dolerite, sandstone and mudstone	High
BP03	28.1km	Decomposed dolerite and sandstone	High
BP04	29.4km	Decomposed dolerite	Fair
BP05	31.6km	Decomposed dolerite, sandstone and mudstone	High
BP06	33.0km	Mudstone, decomposed dolerite and sandstone	High
BP07	38.3km	Sandstone and decomposed dolerite	Fair to high
BP08	39.5km	Shale, sandstone and decomposed dolerite	High
BP09	44.8km	Decomposed dolerite	Fair
BP10	47.1km	Decomposed dolerite some mudstone	High
BP11	51.2km	Sandstone and mudstone	Fair



BP13	63.3km	Decomposed dolerite	Fair to high
BP14	63.4km	Sandstone, shale and mudstone	High
BP15	66.0km	Mudstone	High
BP16	67.4km	Decomposed dolerite	Fair to high
BP17	69.7km	Mudstone and sandstone	Fair
BP18	74.0km	Mudstone and decomposed dolerite	Fair to high

4. Project Description

The project entails the formalised permitting of the borrow pits in terms of the Department of Mineral Resources. An area of no more than 1.5ha is to be mined as per the regulations for mining permits. The mined materials are to be used by the Department of Roads and Transport, for the upgrading and rehabilitation of existing surfaces.

The proposed mining method is open cast excavation with a front-end loader and loading onto tipper trucks for transport. The mining operations will be operated in accordance with an approved Environmental Management Programme as per the requirements set out by the Department of Mineral Resources.

5. Heritage Impact Assessment

A Heritage Impact Assessment was conducted on the sixteen borrow pits that are found along the DR08015. Of the sixteen borrow pits investigated, ancestral graves occur immediately adjacent to the following pits:

- Borrow Pit 05: Approximately 16 stone-packed graves, and one grave with a granite headstone, are located within 30 meters of the southern borrow pit face.
- Borrow Pit 06: Various family graves are located within a fenced homestead precinct within 5 metres of the existing southern/south-western borrow pit face.
- Borrow Pit 18: At least three stone-packed graves are located across the road from, and directly opposite to the borrow pit.

6. How to participate

According to the Environmental Impact Assessment Regulations (2010) promulgated in terms of the National Environmental Management Act (Act 107 of 1998) those who are

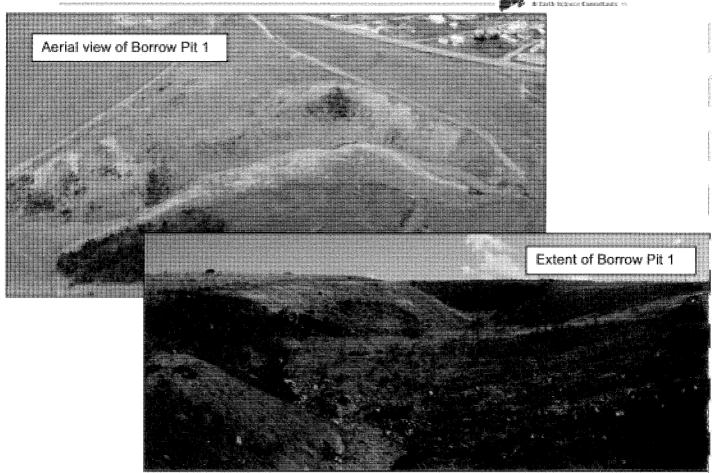


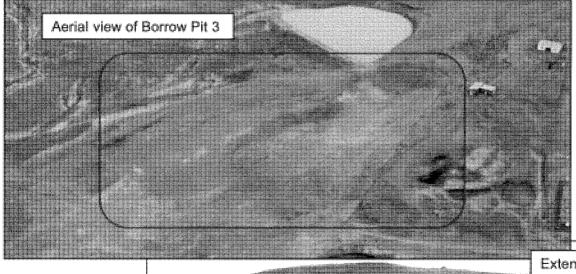
impacted by a proposed development must have the opportunity to comment and/or raise concerns. These inputs are then addressed through the EIA process. For this reason it is imperative that you as an interested and/or affected party (IAP) comment on the proposed development and highlight issues or concerns that you feel need to be considered during the proposed planning and implementation process. This can be done by contacting the environmental consultant (details given on page 01) who will register you as an IAP. If you intend to register as an IAP please forward the following information to Terratest before **26 July 2011.**

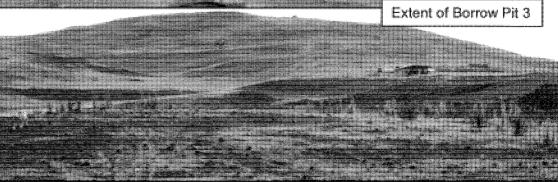
- Your Name
- Your Contact Details
- Your Comment

A comments form is attached in Appendix A.

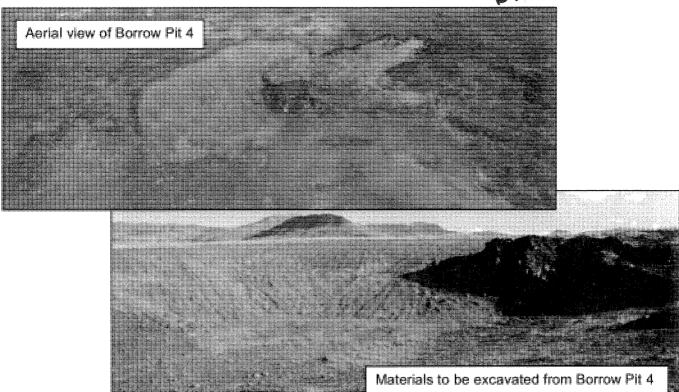


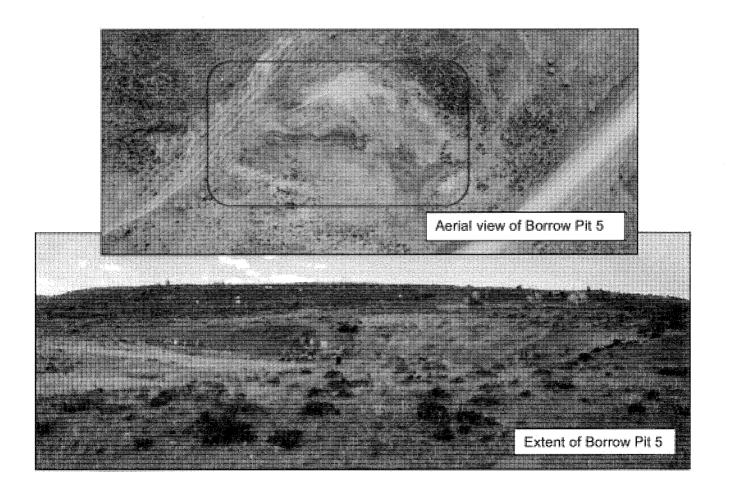




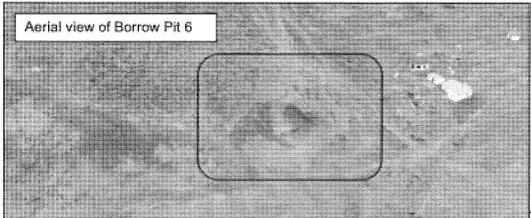


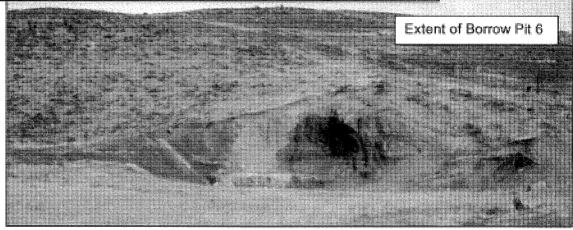


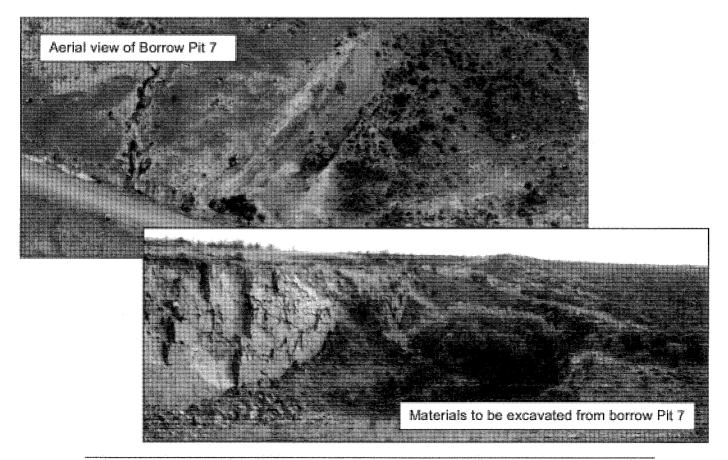




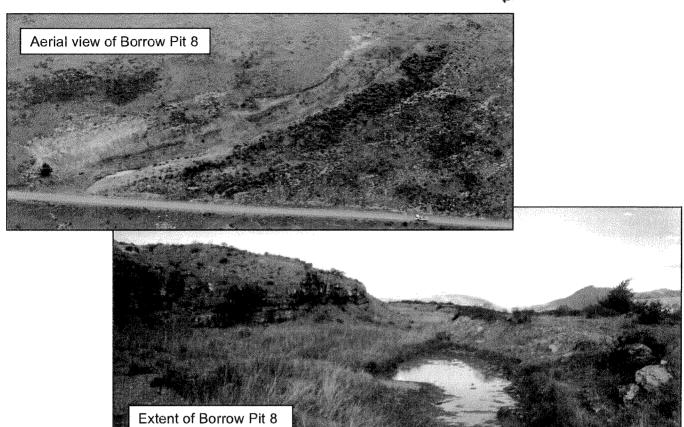


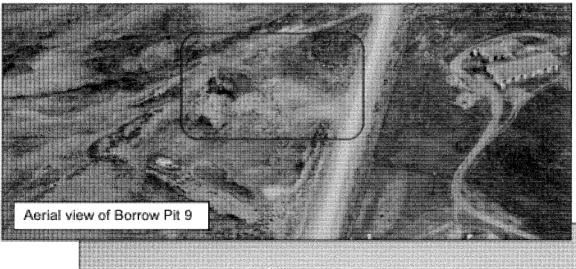






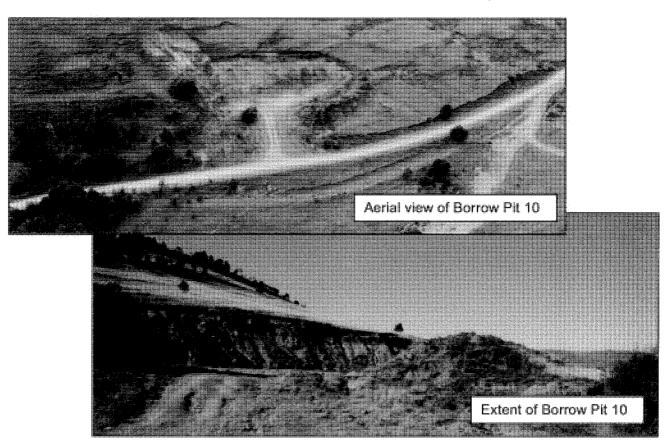


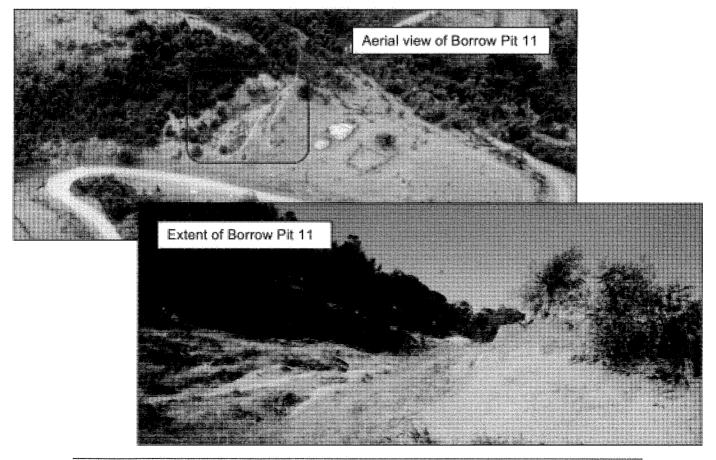




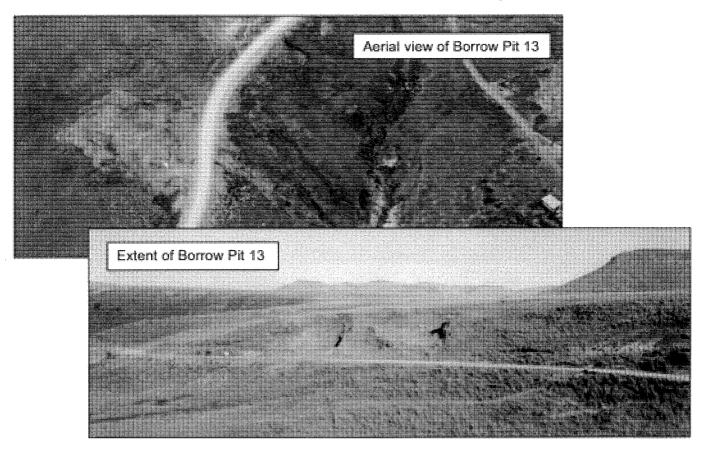


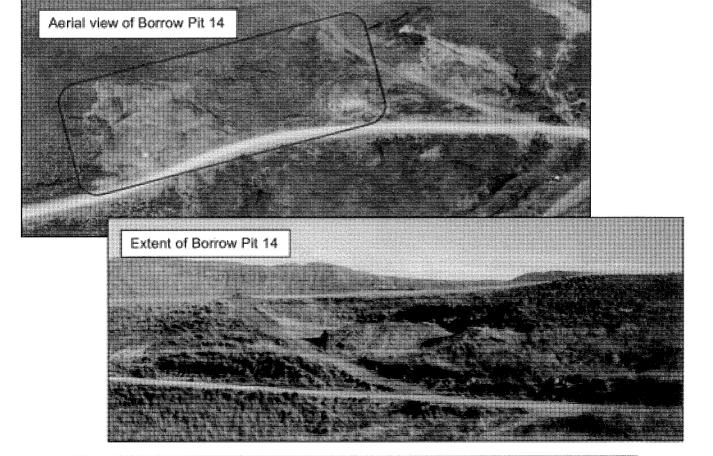




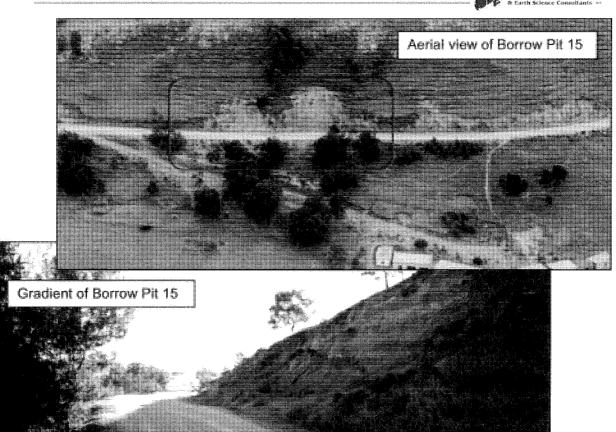


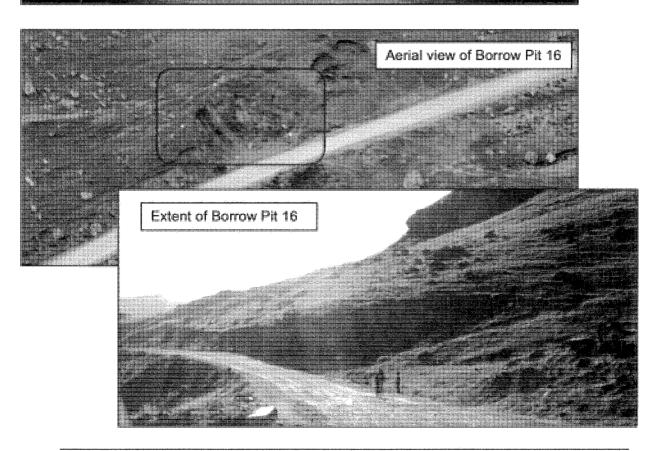




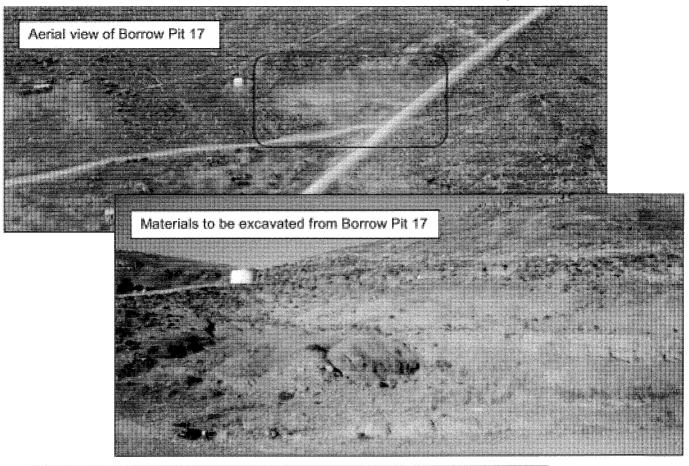


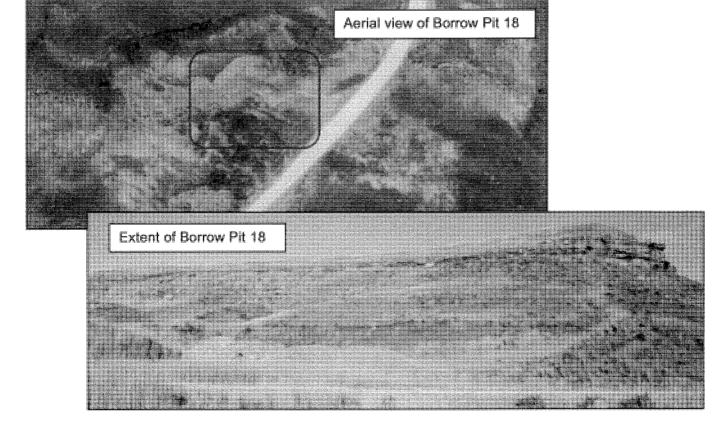














Appendix A - Comments Forms

REGISTRATION FORM – Our Ref - 41129
Name:
Surname
Address:
Postal Code:
Tel No:
Fax No:
Cell No:
e-mail:
Comments: (add extra pages should you need)
dam oxid pages official for fiscal,
Do you require any additional information?
Other parties which you think should be included in the process:
Your comments are highly appreciated, and will be included in the final report to be
submitted to the decision-making authorities.
PLEASE RETURN NO LATER THAN 26 JULY 2011 TO:
Imke Summers
c/o TERRATEST (Pty) Ltd
PO Box 794 Hilton
3245
TEL No: 033 343 6789 Fax No: 033 343 6788
e-mail: summersi@terratest.co.za



Your Ref Our Ref. 41129	6 th July 2011

ATTENTION:	
Dear Sir/ Madam	

ALFRED NZO MASIPALA WENDAWO, ISICELO SE KWARI, INCWADI YESAZISO.

Isebe lezendlela nemisebenzi(Roads and Public Works) kwiphondo lase Mpumakoloni lijongene nohlelo logunyaziso lwekwari kwindawo zonke ezikwi nginqi kaMasipala wase Alfred Nzo. Koluhlelo isebe licele iTerratest (Pty) Ltd (inkampani yenzululwazi) ukuthatha ingxaxheba malunga nokhuseleko lwezendalo ngalomsebenzi.

Esi sicelo sokombiwa kwekwari sifakwa lisebe leZembiwa (Mineral Resources) elikwi Phondo leMpumakoloni (Eastern Cape Province), elonana lingunyazisa ukusetyenziswa kwezombiwa kwindawo zonke ze-Phondo.

Inkosi ithathwe ingu mnikazi mhlaba okanye ummeli wesizwe salondawo kucelwa imvume yekwari. Ukuba umhlali unamava malunga nolomsebenzi ocelwa nguRhulumenti, maka thethe phambi koLwesihlanu, 5 August 2011 nalomtu ulandelayo:

Imke Summers

Address:

PO Box 794

Hilton 3245

Email:

summersi@terratest.co.za

Tel:

033 343 6789

Fax:

033 343 6788

Okanye athethe nomgunyazisi weleta.

Ngokuzithoba,

Magnus van Rooyen (for TERRATEST)



Your Ref. 6th July 2011
Our Ref. 41129

ATTENTION:
Dear Sir/ Madam

ALFRED NZO, MASEPALA WA SETEREKE, KOPO YA KWARI, LENGOLO LA TSIBISO.

Lefapha la tsa Mmila le Mesebetsi (Roads and Public Works) Eastern Cape le shebane le ho nehana ka tumello ya tshebediso ya sebaka sa majwana / kwari(borrow pit) sebakeng sa Masepala wa Alfred Nzo.

Mosebetsing oo, ho kgethuwe ditsibi tsa mokgatlo waTerratest (PTY) LTD ho shebana le tsa tlhokomelo ya tikoloho (dihlodilweng).

Kopo ya mosebetsi e kengwa ke lefapha la tsa Diepuwa (Mineral Resources) Eastern Cape Province, leo e leng lona le nang le matla a ho fana ka tumello ya ho sebedisa diepuwa Lebatoweng.

Morena o kgethuwe e le monga mobu/sebaka kapa moemedi setjhabeng seo ho kentsweng kopo ya tshebediso ya kwari. Ha e ba ho le teng motho ya nang le tlhahiso mabapi le mosebetsi ona o kupuweng ke Kgoromente , o kopjwa hore a hlahise maikutlo a hae pele ho letsatsi la

Labohlano, 5 Phato (August) 2011, a ka buwa le : Imke Summers

Address:

PO Box 794

Hilton 3245

Email:

summersi@terratest.co.za

Tel:

033 343 6789

Fax:

033 343 6788

Kapa a buwe le mongodi wa lengolo lena dinomorong tse beilweng.

Ka boikokobetso

Magnus van Rooyen (for TERRATEST)

TELEPHONE CO	NTACT	RECORD
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Contact with: Chief Lupindo of 18	Phone: 6730118865
J&G Contact:File/Project No.:	/ Date: 24 June 2011
Initiated by:Subject:	Time: 13: 03
NOTES: Why closs beople Wh	o were bolung for
borrow bits did not ask	permission from him?
What if they chose so	neone Site. Can those
people from the depart	I ment come to the
Community to explain,	
Atress P. O. Bex 894	
Matatiele	««»»»»
	armatusmanataumatassassassassassassassastaassastaassastassass
	narragian agamata a a a a a a a a a a a a a a a a a
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ACTIONS:	

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Terratest (Pty) Ltd PO Box 794, Hilton, 3245 Tel. 033 343 6789 Fax 033 343 6788	Scribble pad
Grotechnizal, Burdomental & Earth Science Consultants Vanrooyenm@terratest.co.za	
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TELEPHONE	CONTACT	RECORD
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Contact with Chief Matandetrof Wanish Phone: 076 349 01 03
J&G Contact:
1&G Contact:
Initiated by: Temble Subject: Time: 07: 20
NOTES: They did not know that the borrow pits
below to the state What they don't will a
that they open those borrow pits and the
Community does not benefit from them, if they
do open those borrow pik they would like
to have something that the community and
to have something
the traditional counsil to benefit:
adress; Chief D. N. Matandela
P. O. Box 1183
MATATIELE
4730
\$
\$\$1.55.57.57.57.57.57.57.57.57.57.57.57.57.
ACTIONS:
Scribble vad



Terratest (Pty) Ltd PO Box 794, Hilton, 3245 Tel. 033 343 6789 Fax 033 343 6788 Email: vanrooyenm@terratest.co.za

Pps. ; 12

TELEPHONE CONTACT RECORD

Contact With: Clly Bhone of Ward 18 Phone: 0827706638
J&G Contact:Date: 24 Jone 20!]
Initiated by: TembieSubject:Time: 10.1.24 - 10.1.28
NOTES: He Said he is around town he would
like to come to the office so that he can
inderstand what I am talking about.
We had a meeting at 12:56 He undershood
but he asked if those sites for borrow pite are in
Someone's site will they get compensation.
He thinks that the Community need to get
Compensation for their land. When making or
using those pits their grazing lands are being
affected limited land that they do not
have place for their gravesile & fields. They do
not need money they can get even community
hall,
ACTIONS: P.O. BOX 1687 Matatiele 4730
4+30
Terratest (Pty) Ltd Scribble pad PO Box 794, Hilton, 3245 Tel. 033 343 6789 Fax 033 343 6788 Email: **Contectnated, Environmental & Email:

vanrooyenm@terratest.co.za

REGISTERED LETTER		
GEREGISTREERDE BRIEF (with an insurance option/met 'n versekeringsopsie) Full trackling and tracing/Volledige Volg on spoor	Postage paid R	NAME OF THE OWNER, WHEN THE OW
t (wit	Versekerde waarde van inhoud R	Lobone Litho Printers 011 493 7921 781281
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	Total Total RC	
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Full tracking and tracing/Volledige volg en spoor	Total / Totaal	R	C
Addressed to/Geadresseer aan	Insured value of contents		
N. N MARIANDGLA	Versekerde waarde van inhou	d R	C
	Enquiries/Navrae	Initial of	Date Stamp
BOV 1183	Toll-free number	accepting officer	
MATERIAL Postcode	Tolvry nommer 0800 111 502		2011-01-0
The value of the contents of this letter is as indicated and compensation is not payable for a letter		1	1 2011
received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof. Optional insurance up to R2 000.00 is available and applies to domestic registere.	Affix Track and Trace	0	1 \ \ (15) /\{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
letters only.	REGISTERED LETTER (with an insurance option)	•	The state of the s
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sonder dokumentêre bewys betaalbaar nie. Opsionele versekering tot R2 600.00 is beskikbaar en slegs op binnelandse geregisteerde briewe van toepassing.	STOMER COPY 301027R	beampte	Datumstempel §
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Full tracking and tracing/Volledige volg en spoor	Total Totaal	R	с
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	Enquiries/Navrae	Initial of	Date Stamp
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	Enquiries/Navrae	Initial of accepting Date Stamp
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east cricidaland fever april 29, 2011

INEWS



ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR PROPOSED MINING OF GRAVEL FROM BORROW PITS FOR THE MAINTENANCE OF GRAVEL ROADS IN THE ALFRED NZO DISTRICT MUNICIPALITY AREA OF THE EASTERN CAPE

Notice is hereby given in terms of Regulation 49 of the Regulations published in the Government Notice No. 26275, under Section

Government Notice No. 26275, under Section 22 of the Minerals & Petroleum Resources Development Act (Act No 28 of 2002) of intent to carry out the following activity: **Proposed Activity:** Mining of gravel at the Borrow Pits located at km1.4; km17; km28.1; km29.4; km31.6; km33; km38.3; km39.5; km44.8; km47.1; km51.2; km56.4; km63.3; km68.4; km66; km67.4; km69.7 and km74 along the DR08015.

the DR08015. **Proponent:** The project proponent is the Eastern Cape Department of Roads and

Transport (DoRT)

Consultant: Terratest (Pty) Ltd, P O Box 794, Hilton 3245, Tel: 033 343 6789, Fax: 033 343 6788. Contact Person: Magnus van Rooyen, e-mail: vanrooyenm@terratest.co.za In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information and interest in the matter to the contact person given above within 21 days from the date of this advertisement.

APPENDIX C GEOTECHNICAL FEASIBILITY REPORT HERITAGE IMPACT ASSESSMENT

GEOTECHNICAL BORROW PIT ASSESSMENT

INITIAL ASSESSMENT REPORT

FOR

DR08015

Prepared for:

Province of the Eastern Cape
The Head of Department
Department of Roads and Transport
Eastern Cape Government
Private Bag X0023
BHISHO
5605

Prepared by: Controlab cc P O Box 346 EAST LONDON 5200

CONTENTS

EXECU	JTIVE SUMMARY	.1
1.	INTRODUCTION	. 3
1.1 1.2	TERMS OF REFERENCE	. 3
2.	GENERAL DESCRIPTION OF THE PROJECT	.3
3.	OBJECTIVES AND STRATEGIES	.4
4.	SCOPE OF THE INVESTIGATION	. E
5.	VISUAL ASSESSMENT SURVEY	.5
6.	BORROW PIT INFORMATION	. 6
7.	ENVIRONMENTAL CONSIDERATIONS	.6
8.	ASSESSMENT OF SUITABILITY	.7
9.	ESTIMATED QUANTITIES	.8
10.	RECOMMENDATIONS	.9

ANNEXURE A: KM 1+400 LHS **ANNEXURE B:** KM 17+000 RHS **ANNEXURE C:** KM 28+100 LHS **ANNEXURE D:** KM 29+400 LHS **ANNEXURE E:** KM 31+600 RHS ANNEXURE F: KM 33+000 RHS **ANNEXURE G:** KM 38+300 RHS ANNEXURE H: KM 39+500 RHS **ANNEXURE I:** KM 44+800 LHS **ANNEXURE J:** KM 47+100 RHS **ANNEXURE K:** KM 51+200 RHS ANNEXURE L: KM 56+400 LHS ANNEXURE M: KM 63+300 LHS ANNEXURE N: KM 63+400 LHS **ANNEXURE 0:** KM 66+000 RHS ANNEXURE P: KM 67+400 RHS ANNEXURE Q: KM 69+700 RHS ANNEXURE R: KM 74+000 RHS

EXECUTIVE SUMMARY

This report represents the findings of the visual assessment survey performed on the borrow pits in road DR08015.

The road is within the Alfred Nzo District Municipality and Umzimvubu/Matatiele Local Municipalities with the start and end co-ordinates as follows:

Start co-ordinate
 End co-ordinate
 S30° 53' 48.2" E28° 59' 44.9"
 S30° 25' 34.7" E28° 39' 18.7"

Eighteen (18) borrow pits were identified on the road:

	BP01	1.4km - Left Hand Side	S30° 53' 43.1"	E28° 59' 00.5"
\triangleright	BP02	17.0km - Right Hand Side	S30° 49' 09.2"	E28° 52' 17.2"
\triangleright	BP03	28.1km - Left Hand Side	S30° 44' 31.9"	E28° 51' 09.4"
	BP04	29.4km - Left Hand Side	S30° 43' 49.5"	E28° 51' 12.0"
\triangleright	BP05	31.6km - Right Hand Side	S30° 42' 34.3"	E28° 51' 11.3"
	BP06	33.0km - Right Hand Side	S30° 42' 04.1"	E28° 51' 47.1"
	BP07	38.3km - Right Hand Side	S30° 41' 00.4"	E28° 51' 59.8"
	BP08	39.5km - Right Hand Side	S30° 40′ 50.4″	E28° 51' 41.6"
\triangleright	BP09	44.8km - Left Hand Side	S30° 38' 36.0"	E28° 51' 19.4"
	BP10	47.1km - Right Hand Side	S30° 31′ 51.1″	E30° 50' 18.8"
	BP11	51.2km - Right Hand Side	S30° 36′ 59.0″	E28° 48' 56.9"
	BP12	56.4km - Left Hand Side	S30° 34' 59.4"	E28° 47' 50.6"
	BP13	63.3km - Left Hand Side	S30° 34' 07.1"	E28° 44' 27.6"
	BP14	63.4km - Left Hand Side	S30° 34' 07.1"	E28° 44' 27.6"
\triangleright	BP15	66.0km - Right Hand Side	S30° 33' 29.9"	E28° 43' 37.1"
	BP16	67.4km - Right Hand Side	S30° 33' 08.3"	E28° 42' 51.8"
\triangleright	BP17	69.7km - Right Hand Side	S30° 32' 12.2"	E28° 42' 23.4"
\triangleright	BP18	74.0km - Right Hand Side	S30° 30' 58.7"	E28° 40' 35.5"

It is recommended that the environmental and materials investigation be approved for the following borrow pit:

Bor	row Pit	Km Log	Yield	Material Description
>	BP01	1.4km	High	Decomposed dolerite, sandstone and mudstone
>	BP03	28.1km	High	Decomposed dolerite and sandstone
>	BP04	29.4km	Fair	Decomposed dolerite
>	BP05	31.6km	High	Decomposed dolerite, sandstone and mudstone
>	BP06	33.0km	High	Mudstone, decomposed dolerite and sandstone
>	BP07	38.3km	Fair to high	Sandstone and decomposed dolerite
>	BP08	39.5km	High	Shale, sandstone and decomposed dolerite
>	BP09	44.8km	Fair	Decomposed dolerite

Во	rrow Pit	Km Log	Yield	Material Description
>	BP10	47.1km	High	Decomposed dolerite some mudstone
×	BP11	51.2km	Fair	Sandstone and mudstone
Þ	BP13	63.3km	Fair to High	Decomposed dolerite
D	BP14	63.4km	High	Sandstone, shale and mudstone
≻	BP15	66.0km	High	Mudstone
\triangleright	BP16	67.4km	Fair to High	Decomposed dolerite
>	BP17	69.7km	Fair	Mudstone and sandstone
\triangleright	BP18	74.0km	Fair to High	Mudstone and decomposed dolerite

1. INTRODUCTION

Controlab was appointed by the Department of Roads and Transport, Province of the Eastern Cape for geotechnical borrow pit assessments. The contract number was SCMU 10-08/09-0032. The consultants acting on behalf of the Department of Roads and Transport were the RAMS Joint Venture consisting of Aurecon and Vela VKE.

This report summarises the information collected as part of the initial assessment phase investigation on road DR08015.

1.1 Terms of Reference

The report is compiled based on the information collected during the first phase investigation on DR08015 and in accordance to the requirements of the contract document (SCMU 10-08/09-0032).

1.2 Available Information

The information provided to Controlab by the RAMS Joint Venture consisted of the following:

District Municipality - Alfred Nzo

Local Municipality - Umzimvubu (BP1 to BP7) Matatiele (BP8 to BP18)

➤ Road Number - DR08015

Start co-ordinate
 End co-ordinate
 S30° 53' 48.2" E28° 59' 44.9"
 S30° 25' 34.7" E28° 39' 18.7"

2. GENERAL DESCRIPTION OF THE PROJECT

DR08015 is a gravel road starting north of the town of Mount Frere and ends 27km from the town of Matatiele within the Province of the Eastern Cape. The road falls within the Umzimvubu and Matatiele Local Municipalities. DR08015 is approximately 88.2km long and runs in a south to north direction. The road starts at the intersection with the N2 and runs in a northern direction and ends at the intersection with R56 (TR01905).

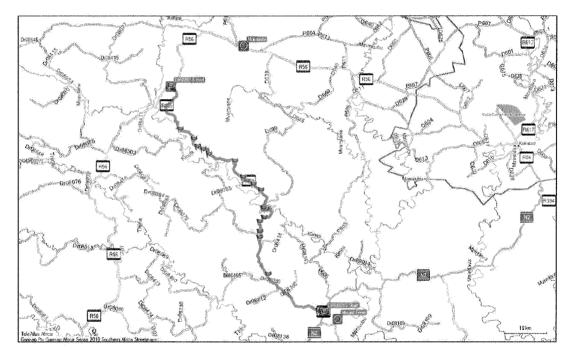
According to the geological map number 3028 Kokstad published in 1979 by the Chief Director of Surveys and Mapping, the area under investigation falls within the Karoo supergroup, embracing the Drakensberg and Beaufort groups and Tarkastad subgroup.

The materials in this area would generally consist of medium to fine grained sandstone and mudstones. In the Cedarville area there is dolerite dyke intrusions.

Mount Frere normally receives about 671mm of rain per year, with most rainfall occurring mainly during midsummer. It receives the lowest rainfall (7mm) in June and the highest (110mm) in January. The average midday temperatures for Mount Frere range from 18.3°C in June to 25.9°C in January. The region is the coldest during July when the mercury drops to 3.7°C on average during the night.

Matatiele normally receives about 609mm of rain per year, with most rainfall occurring mainly during midsummer. It receives the lowest rainfall (2mm) in July and the highest (116mm) in January. The average midday temperatures for Matatiele range from 15.6°C in June to 24.9°C in January. The region is the coldest during July when the mercury drops to 0.6°C on average during the night.

Wienerts climatic N number for the area is less than 2, which should indicate that the rocks would decompose implying that chemical weathering would dominate over mechanical weathering.



3. OBJECTIVES AND STRATEGIES

The objective with the initial assessment phase investigation is to carry out a visual assessment survey is to identify existing and potential gravel sources prior to performing a detailed environmental study and materials testing. Part of the initial assessment is to identify noticeable constraints at the various borrow pits, identify the material type and identifying whether it would be suitable for expansion.

The strategy followed during the initial assessment can be summarised as follows:

- Getting available information from the RAMS JV
- Contacting the relevant District Municipality
- Programming the project start and end co-ordinates
- > Sending the field technician to transverse the road to locate existing borrow pits
- > Completing the visual assessment survey form for all identified borrow pits, photographic record of the borrow pit as well as getting co-ordinates of the perimeter of the borrow pit
- Submission of the visual assessment forms to Controlab laboratory for electronic capturing
- Compilation of the initial assessment report.

4. SCOPE OF THE INVESTIGATION

The report deals with eighteen (18) borrow pits identified on road DR08015. These borrow pits were situated at the following kilometre references:

BP01	1.4km - Left Hand Side	S30° 53' 43.1"	E28° 59' 00.5"
BP02	17.0km - Right Hand Side	S30° 49' 09.2"	E28° 52' 17.2"
BP03	28.1km - Left Hand Side	S30° 44' 31.9"	E28° 51' 09.4"
BP04	29.4km - Left Hand Side	S30° 43' 49.5"	E28° 51' 12.0"
BP05	31.6km - Right Hand Side	S30° 42' 34.3"	E28° 51' 11.3"
BP06	33.0km - Right Hand Side	S30° 42' 04.1"	E28° 51' 47.1"
BP07	38.3km - Right Hand Side	S30° 41' 00.4"	E28° 51' 59.8"
BP08	39.5km - Right Hand Side	S30° 40' 50.4"	E28° 51' 41.6"
BP09	44.8km - Left Hand Side	S30° 38' 36.0"	E28° 51' 19.4"
BP10	47.1km - Right Hand Side	S30° 31' 51.1"	E30° 50' 18.8"
BP11	51.2km - Right Hand Side	S30° 36' 59.0"	E28° 48' 56.9"
BP12	56.4km - Left Hand Side	S30° 34' 59.4"	E28° 47' 50.6"
BP13	63.3km - Left Hand Side	S30° 34' 07.1"	E28° 44' 27.6"
BP14	63.4km - Left Hand Side	S30° 34' 07.1"	E28° 44' 27.6"
BP15	66.0km - Right Hand Side	S30° 33' 29.9"	E28° 43' 37.1"
BP16	67.4km - Right Hand Side	S30° 33' 08.3"	E28° 42' 51.8"
BP17	69.7km - Right Hand Side	S30° 3 <u>2</u> ' 12.2"	E28° 42' 23.4"
BP18	74.0km - Right Hand Side	S30° 30' 58.7"	E28° 40' 35.5"

5. VISUAL ASSESSMENT SURVEY

The visual assessment field data sheets are attached in the various appendices.

6. BORROW PIT INFORMATION

The material identified in the various borrows pits were as follows:

BP01	1.4km	Decomposed dolerite, sandstone and mudstone
BP02	17.0km	Mudstone
BP03	28.1km	Decomposed dolerite and sandstone
BP04	29.4km	Decomposed dolerite
BP05	31.6km	Decomposed dolerite, sandstone and mudstone
BP06	33.0km	Mudstone, decomposed dolerite and sandstone
BP07	38.3km	Sandstone and decomposed dolerite
BP08	39.5km	Shale, sandstone and decomposed dolerite
BP09	44.8km	Decomposed dolerite
BP10	47.1km	Decomposed dolerite some mudstone
BP11	51.2km	Sandstone and mudstone
BP12	56.4km	Decomposed dolerite
BP13	63.3km	Decomposed dolerite
BP14	63.4km	Sandstone, shale and mudstone
BP15	66.0km	Mudstone
BP16	67.4km	Decomposed dolerite
BP17	69.7km	Mudstone and sandstone
BP18	74.0km	Mudstone and decomposed dolerite

7. ENVIRONMENTAL CONSIDERATIONS

The environmental constraints noted during the visual assessment were as follows:

BP01 1.4km - No environmental constraints noted. BP02 17.0km - This borrow pit was fully reinstated. BP03 28.1km - Houses were noted on the one side of the borrow pit. BP04 29.4km - No environmental constraints noted. BP05 31.6km - Houses and graves were noted on the one side of the borrow pit. BP06 33.0km - Houses were noted on the one side of the borrow pit. BP07 38.3km - No environmental constraints noted. BP08 39.5km - Surface water was noted on the floor of the borrow pit.

44.8km - Surface water was noted on the floor of the borrow pit.

BP09

- BP10 47.1km Surface water was noted on the floor of the borrow pit.
- ▶ BP11 51.2km Houses were noted approximately 30 from the borrow pit.
- ➤ BP12 56.4km Houses were noted around the borrow pit
 - Surface water was noted on the floor of the borrow pit.
- ➤ BP13 63.3km No environmental constraints noted.
- > BP14 63.4km No environmental constraints noted.
- > BP15 66.0km No environmental constraints noted.
- > BP16 67.4km Houses were noted on the one side of the borrow pit.
- > BP17 69.7km A reservoir was noted on the side of the borrow pit.
- > BP18 74.0km No environmental constraints noted.

8. ASSESSMENT OF SUITABILITY

The suitability for further investigation based on the visual assessment was as follows:

- BP01 1.4km The borrow pit can be extended in the area between the road and the existing borrow pit:
 - Excavators will be required for the extensions.
- BP02 17.0km Due to the fact that this borrow pit was reinstated it is not feasible to re-open it.
- ➤ BP03 28.1km The borrow pit can be extended taking into account the position of the houses
 - Excavators will be required for the extensions.
- ▶ BP04 29.4km The borrow pit can be extended in the area away from the road
 - Excavators will be required for the extensions.
- BP05 31.6km The borrow pit can be extended taking into account the position of the houses and grave site
 - Excavators will be required for the extensions.
- BP06 33.0km The borrow pit can be extended in to the hillside away from the houses
 - Excavators will be required for the extensions.
- > BP07 38.3km The borrow pit can be extended in to the hillside
 - Excavators will be required for the extensions.

	BP08	39.5km	 The borrow pit can be extended in to the existing face Drainage would have t be addressed during extensions Excavators will be required for the extensions.
>	BP09	44.8km	 The borrow pit can be extended in to the existing face Drainage would have t be addressed during extensions Excavators will be required for the extensions.
>	BP10	47.1km	 The borrow pit can be extended in to the existing face Drainage would have t be addressed during extensions Excavators will be required for the extensions.
>	BP11	51.2km	 The borrow pit can be extended in to the existing face away from the houses Excavators will be required for the extensions.
>	BP12	56.4km	- Due to the houses around the borrow pit this borrow pit will not be feasible for extensions.
~	BP13	63.3km	 The borrow pit can be extended in all directions away from the road Excavators will be required for the extensions.
>	BP14	63.4km	 The borrow pit can be extended in all directions away from the road Excavators will be required for the extensions.
A	BP15	66.0km	 The borrow pit can be extended in all directions away from the road Excavators will be required for the extensions.
A	BP16	67.4km	 The borrow pit can be extended in to the hillside away from the houses Excavators will be required for the extensions.
>	BP17	69.7km	 The borrow pit can be extended in to the face away from the reservoir Excavators will be required for the extensions.
>	BP18	74.0km	 The borrow pit can be extended into the hillside away from the road Excavators will be required for the extensions.

9. ESTIMATED QUANTITIES

An indication of the available quantities based on the visual assessment was as follows:

BP01 1.4km High BP02 17.0km Nil BP03 28.1km High BP04 29.4km Fair BP05 31.6km High BP06 33.0km High BP07 38.3km Fair to High BP08 39.5km High BP09 44.8km Fair BP10 47.1km High BP11 51.2km Fair BP12 56.4km Poor BP13 63.3km Fair to High BP14 63.4km High BP15 66.0km High 67.4km Fair to High BP16 ▶ BP17 69.7km Fair 74.0km Fair to High ▶ BP18

10. RECOMMENDATIONS

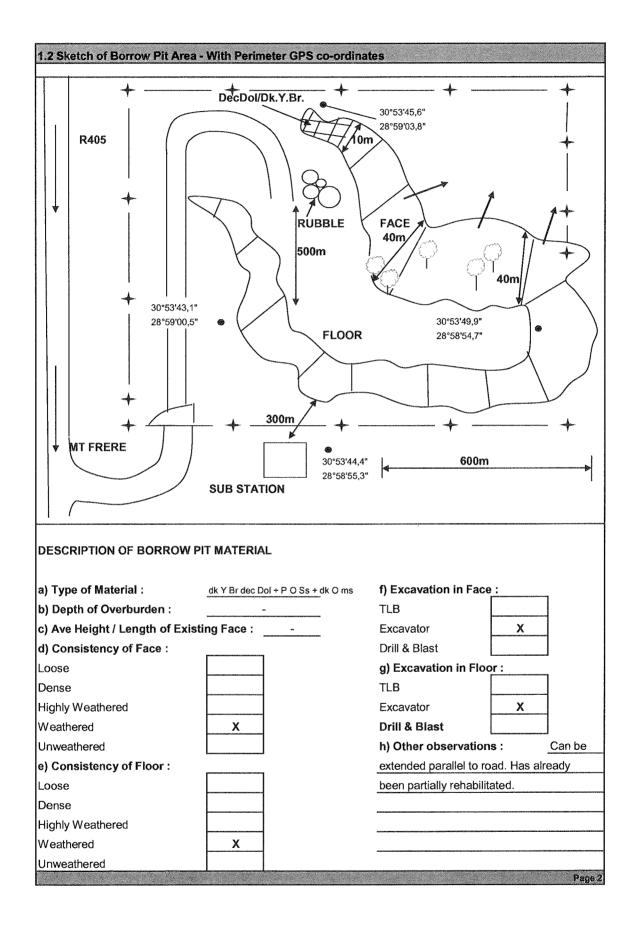
It is recommended that the environmental and material investigation be requested for the following borrow pits:

\triangleright	BP01	1.4km	High	Decomposed dolerite, sandstone and mudstone
	BP03	28.1km	High	Decomposed dolerite and sandstone
\triangleright	BP04	29.4km	Fair	Decomposed dolerite
\triangleright	BP05	31.6km	High	Decomposed dolerite, sandstone and mudstone
\triangleright	BP06	33.0km	High	Mudstone, decomposed dolerite and sandstone
\triangleright	BP07	38.3km	Fair to high	Sandstone and decomposed dolerite
\triangleright	BP08	39.5km	High	Shale, sandstone and decomposed dolerite
\triangleright	BP09	44.8km	Fair	Decomposed dolerite
	BP10	47.1km	High	Decomposed dolerite some mudstone
\triangleright	BP11	51.2km	Fair	Sandstone and mudstone
\triangleright	BP13	63.3km	Fair to High	Decomposed dolerite
	BP14	63.4km	High	Sandstone, shale and mudstone
\triangleright	BP15	66.0km	High	Mudstone
	BP16	67.4km	Fair to High	Decomposed dolerite
	BP17	69.7km	Fair	Mudstone and sandstone
	BP18	74.0km	Fair to High	Mudstone and decomposed dolerite





7	BORROW PI	T DATA INPUT SHEE	Τ .		CONTROL	
		Information				
District Municipality	Alfred Nzo	Kilometres	Sou	ıth.	East	
Local Municipality	Umzimvubu	Start	30 ° 53	' 48 "	28° 59'	45 "
Road Number	DR08015	End	30 ° 25	' 35 "	28 ° 39 '	19 "
	Borrow	Pit Information	141			
Borrow Pit No. or Source No. :	DR08015 - 1.4KM - LHS	accompany and included property	Во	row Pit Co	- ordinates	:
KM Log from Start co-ord :	1.4KM - Left Hand Side	<u></u> S	30	°53	43	.1"
Estimated Yield :	High	į ir 	28	° 59	' 00	.5 "
Type of Material:	dec Dol + Sandstone + n	nudstone		***************************************		Ministratorio de la companya del companya del companya de la compa
Description of Source : Existing Borrow Pit Cutting in Road Exposed out Crop New	X	Comments : Owner: Not identified Good potential source				
SIGNATURE 1.1 Locality Map	1. Initial A	ssessment Stag	DAT Je			
Dossay	R55	PEOL A				Es I
	Oneson Services	Company of the compan				



1.3 Possible Constraints	í.		
tem		Prob	lem
	Yes	No	Don't Know
Grave sites		X	
auna		Х	Scholaria Billionia (Intelligenti Intelligenti anti anti compileo e e e e e e e e e e e e e e e e e e
Sites with archaelogical significance	*****	х	
Buildings, structures or human habitation		X	
Power or telephone lines, overhead		Х	
Railways		х	
Surface water		х	enemental anno anno este este este este este este este est
Boreholes		Х	allement of the contract of th
ndigenous plant species		X	
Enviromental sensitive locations		х	TVANOSTI SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
Any other restraints such as uncooperative landowners etc			X



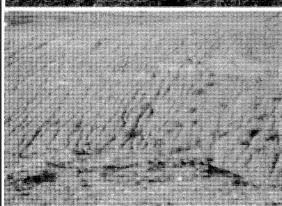
DR08015 BP1 - 1.4KM S30°53'45.8" E28°59'02.8" North West Face - access road behind



DR08015 BP1 - 1.4KM S30°53'45.2" E28°59'01.1" North West Face - reinstated



DR08015 BP1 - 1.4KM S30°53'44.6" E28°59'00.8" North West Floor

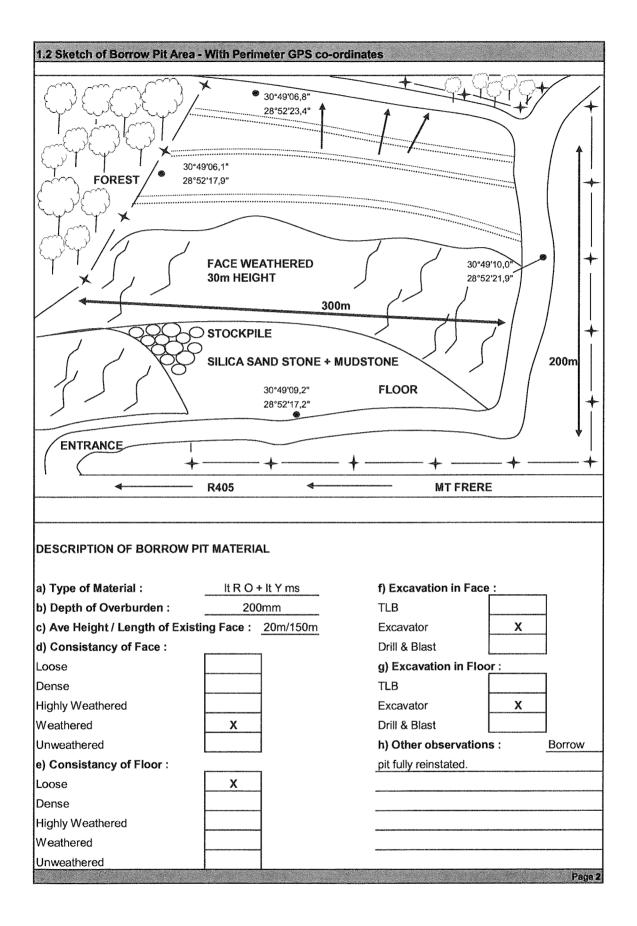


DR08015 BP1 - 1.4KM S30°53'42.8" E28°59'59.2" General view





	BORROW	PIT DATA INPUT SHE	ET		CONT	ROLAB
	Roa	d Information				
District Municipality	Alfred Nzo	Kilometres	Sout	h		East
Local Municipality	Umzimvubu	Start	30 ° 53 '	48 "	28° 5	9 ' 45
Road Number	DR08015	End	30 ° 25 '	35 "	28 ° 3	9' 19
	Borrov	v Pit Informatio	n			
Borrow Pit No. or Source No. :	DR08015 - 17.0KM - R	-IS	Borr	ow Pit Co	o - ordina	tes :
KM Log from Start co-ord :	17.0KM - Right Hand S	ide	S30°	49	ا غينيت مينين	09.2
Estimated Yield :	Nil	russonianum pepaganya terani projendani dasii	E 28 °	52	· .	17.2
Type of Material :	Mudstone	over o es en maio épote que leça atransación de la cualque la chaquista en delegracione			************	
Description of Source :		Comments :				
Existing Borrow Pit	X	Chief: Nosizkie (Te	l: 072 335 1548)		a managaman managaman	
Cutting in Road	CONTRACTOR ATTENDED TO A TO		Tel: 076 202 779		ne area merman areas	
Exposed out Crop	Annual Control of the	Borrow pit reinstated		eve ett misse angele version	ersuseinengs gunge eine	
New	men anarody (il is the label l	Do not investigated	minimum in the second s	age.	***************************************	act and the state of the state
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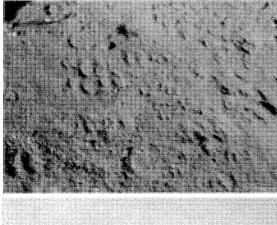
1.3 Possible Constraints		or automours directly activities	
tem		Prob	lem
	Yes	No	Don't Know
Grave sites	nazaronnon yen eire en coecesium, me into ei en assistent yen into e	Х	TO CONTROL OF THE PARTY OF THE
auna		Х	
Sites with archaelogical significance		Х	UPCHYV PRYS AP COURTY VALLEY COMPONENCIA COORDINATION AT THE CONTROL OF A STATE OF THE CONTROL
Buildings, structures or human habitation	Administration of the second s	х	THE CONTRACTOR CONTRACTOR IN THE PROPERTY OF THE CONTRACTOR CONTRA
Power or telephone lines, overhead		х	arrenn Challe Ballin (Challe), balla Filiphia da con de dische and de december experie.
Railways		х	
Surface water		х	may (
Boreholes		х	HE CONSTRUMENTS ENGLISHED AND AND AND AND AND AND AND AND AND AN
ndigenous plant species		х	
Enviromental sensitive locations		х	
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP2 - 17.0KM S30°49'09.2" E28°52'17.2" Face



DR08015 BP2 - 17.0KM S30°49'09.2" E28°52'17.2" Face



DR08015 BP2 - 17.0KM S30°49'09.2" E28°52'17.2" Floor

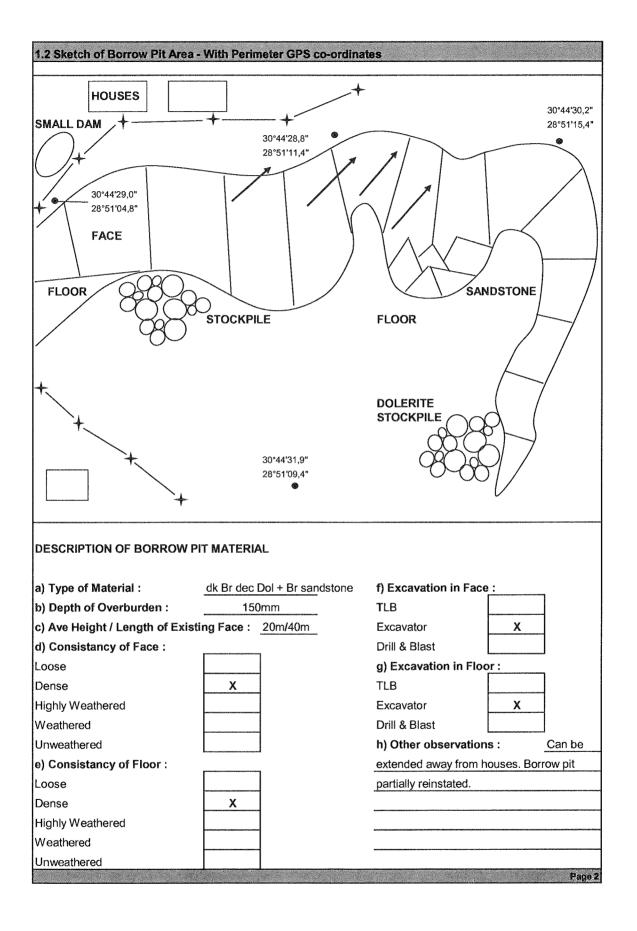


DR08015 BP2 - 17.0KM S30°49'09.2" E28°52'17.2" General view

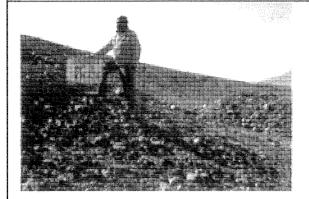




	BORROW PI	T DATA INPUT SHEI	ET	CONTROLAB
	Road	Information		
District Municipality	Alfred Nzo	Kilometres	South	East
Local Municipality	Umzivubu	Start	30 ° 53 ' 48 '	' 28 ° 59 ' 45 "
Road Number	DR08015	End	30 ° 25 ' 35 '	' 28 ° 39 ' 19 "
	Borrow	Pit Information		
Borrow Pit No. or Source No. :	DR08015 - 28.1KM - LHS	name con in the color of the co	Borrow Pit	Co - ordinates :
KM Log from Start co-ord :	28.1KM - Left Hand Side	······································	S <u>30</u> ° 4	4 ' 31.9 "
Estimated Yield :	High	ment elikerikan kanada paka da kanada men	E 28 ° 5	<u>1 ' 09.4 "</u>
Type of Material :	dk Br dec Dol + sandsto	ne		
Description of Source :		Comments :		
Existing Borrow Pit	X	Chief: Nosizkie (Tel	: 072 335 1548)	O O DO DESTRUCTION OF THE PROPERTY OF THE PROP
Cutting in Road	Nagran pagasanan na majahin ja pamajan		el: 076 202 7796)	anteriore (a province province anterior anterior anterior anterior anterior anterior anterior anterior anterior
Exposed out Crop	MANIFESTAL NO MENTAL OF STATES AND ASSESSMENT OF THE STATES AND ASSESSMENT	Good potential source		
New	DOMESTICO DOMESTICO CONTRACA ANA ANCICA CONT			acaptaringapanganananananananananananananananana
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SIGNATURE	A latistal As		DATE:	
SIGNATURE 1.1 Locality Map	1. Initial As	ssessment Sta		P807
	1. Initial As	ssessment Sta		P802
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1.1 Locality Map	1. Initial As	ssessment Sta	ige	
1.1 Locality Map	1. Initial As	ssessment Sta	ige	
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1.1 Locality Map	Onesos Dones	FS CONTRACTOR OF THE PARTY OF T	ige	



Yes	Prob No X X X X X X X X X X X X X X X	Don't Know
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X	X X X X X	
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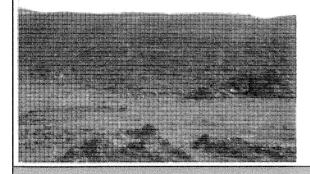
DR08015 BP3 - 28.1KM S30°44'31.9" E28°51'09.4" Face



DR08015 BP3 - 28.1KM S30°44'31.9" E28°51'09.4" Face



DR08015 BP3 - 28.1KM S30°44'31.9" E28°51'09.4" Floor

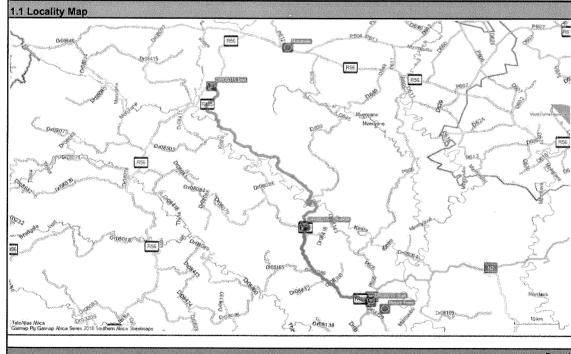


DR08015 BP3 - 28.1KM \$30°44'31.9" E28°51'09.4" General view





		NOADC	Palar II	WIAO.	· OIN		á			
	BORROW	PIT DATA IN	PUT SHEE	Т			С	ONTRO	DLAB	
	Roa	id Inform	ation							
District Municipality	Alfred Nzo	Kilo	metres		South)		Ea	st	and the same of
Local Municipality	Umzimvubu	Start		30 °	53 '	48 "	28 (59	' 45	
Road Number	DR08015	End		30 °	25 '	35 "	28 °	29	' 19	
	Borrov	w Pit Info	rmation							
Borrow Pit No. or Source No. :	DR08015 - 29.4KM - LI	-IS			Borro	w Pit C	o - or	dinate	s:	
KM Log from Start co-ord :	29.4KM - Left Hand Sic	le	S	30	O	43	3	4	9.5	**
Estimated Yield :	Fair		E	28	•	51		MARIAMAN	12	 10
Type of Material:	dec Dol			-						-
Cutting in Road Exposed out Crop New			nyaniso (Tel:							***********
SIGNATURE	1. Initial	Assessm	nent Stac		DATE	enanggari enankine e				
1.1 Locality Map										
The state of the s	RS RS		P504 kg		RSS Z					



1.2 Sketch of Borrow Pit Area -	With Perimeter GPS co	o-ordinates
	30°43'51,1" 28°51'11,1"	
30°43′52,4″ 28°51′13,0″		30°43'49,5" 28°51'12,0"
MT FR.	30°43'50,6"	MAT
DESCRIPTION OF BORROW PI	T MATERIAL	
a) Type of Material : b) Depth of Overburden : c) Ave Height / Length of Existi	dk Br + dk G Dol - ng Face: 35m/40m	f) Excavation in Face : TLB Excavator X
d) Consistancy of Face : Loose Dense Highly Weathered	х	Drill & Blast g) Excavation in Floor: TLB Excavator X
Weathered Unweathered e) Consistancy of Floor: Loose		brill & Blast h) Other observations: extended away from road. Some very hard rock exposed.
Dense Highly Weathered Weathered Unweathered	X	
The control of the co	1	Page 2

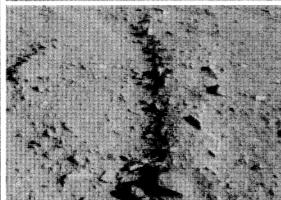
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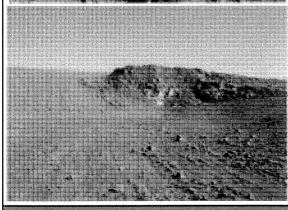
DR08015 BP4 - 29.4KM S30°43'49.5" E28°51'12.0" Face



DR08015 BP4 - 29.4KM S30°43'49.5" E28°51'12.0" Face



DR08015 BP4 - 29.4KM S30°43'49.5" E28°51'12.0" Floor



DR08015 BP4 - 29.4KM \$30°43'49.5" E28°51'12.0" General view

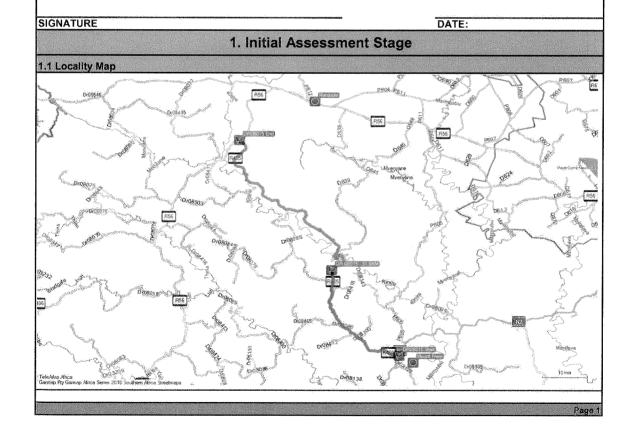


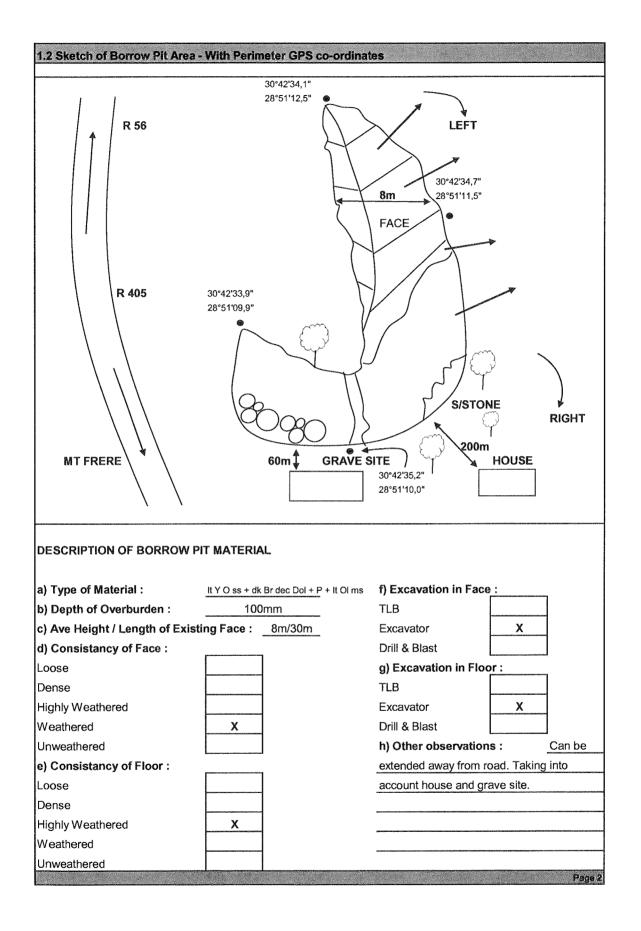
BORROW PIT MANAGEMENT SYSTEM FOR THE DEPARTMENT OF ROADS AND TRANSPORT



BORROW PIT DATA INPUT SHEET

· · · · · · · · · · · · · · · · · · ·	BURRU	W PH DATA II	NPUT SHE	:=!											
	R	oad Inform	nation												
District Municipality	Alfred Nzo	Kild	ometres		************	S	outh	1	aicress.			Ea	ıst		- Constant
Local Municipality	Umzimvubu	Start];	30 °	5	3 '	48	**	28	٥	59	1	45	**
Road Number	DR08015	End		:	30 °	2	5 '	35	17	28	0.	29	٠	19	07
	Borr	ow Pit Info	ormatio	n											
Borrow Pit No. or Source No. :	DR08015 - 31.6KM	- RHS				В	orro	w Pi	it C	o - c	ordi	nate	s:		-
KM Log from Start co-ord :	31.6KM - Right Han	d Side		S	3	0	0	et e e e e e e e e e e e e e e e e e e	42		•	DATE: DO	34.3	winiwa ca	Pi
Estimated Yield :	High		•	E	2	8	0		51		•		11.3		10
Type of Material :	dec Dol + sandstor	ne + mudstone	***************************************	e produce de la companio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						نبنب				
Description of Source : Existing Borrow Pit	X	Commei Owner:	n ts : Not identifi	ed.	necessary.	14F4 00- 4381	мо ма прици	eside annacember	-	· · · · · · · · · · · · · · · · · · ·	de la cont e	naco o benedo	***************************************		وخييت
Cutting in Road		Good po	tential sou	rce.			**********	*************							
Exposed out Crop														***************************************	Non-Philips
New	nakangatangai mengangan	CONTRACTOR	distribution of the property of the second		eperandoniae.	winonium.	nanananan	inagan kara		***************************************		بنجين			

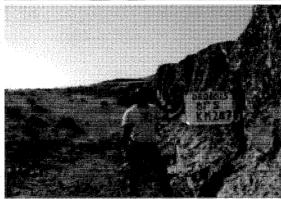




		-	
tem		Prob	lem
	Yes	No	Don't Know
Grave sites	X		
auna	***************************************	<u> </u>	
Sites with archaelogical significance		X	THE STREET OF TH
Buildings, structures or human habitation	X		
Power or telephone lines, overhead		X	
Railways		X	
Surface water		X	MAGINERA DI CITATRI CITATRI CONTRA LI CO
oreholes	***************************************	Х	
ndigenous plant species		х	
Enviromental sensitive locations	NOTIONAL SERVICE DE LA COMPANSION DE LA CO	Х	ти комен 490 мет и поточно в на поста по поста п
Any other restraints such as uncooperative landowners etc		х	



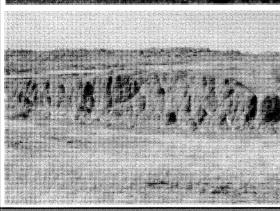
DR08015 BP5 - 31.6KM S30°42'34.4" E28°51'11.9" South West Face - tree and road



DR08015 BP5 - 31.6KM S30°42'34.6" E28°51'11.8" South East Face - top of borrow pit



DR08015 BP5 - 31.6KM S30°42'34.4" E28°51'11.7" South West Floor

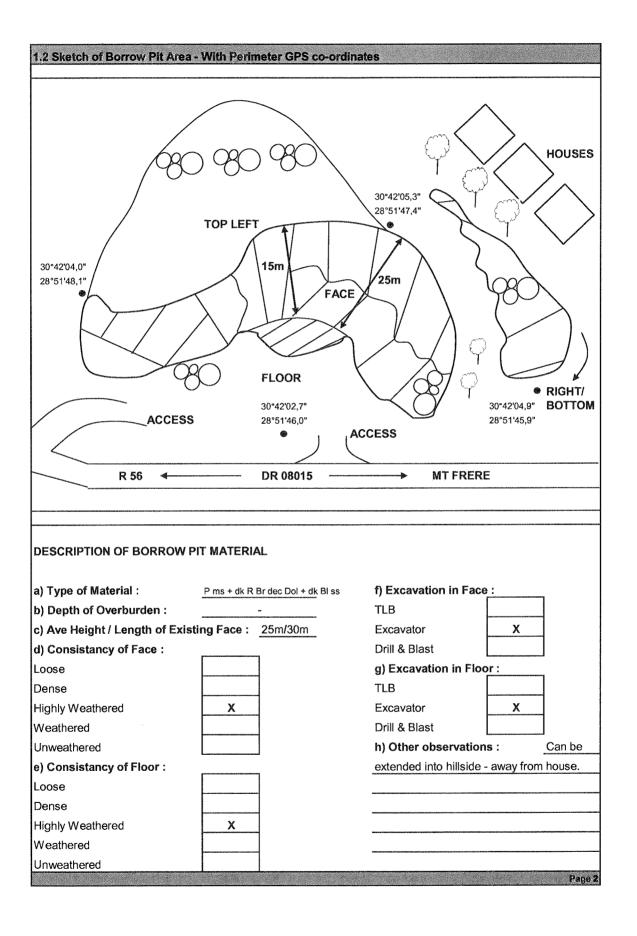


DR08015 BP5 - 31.6KM S30°42'34.3" E28°51'10.3" South East General view





	BORROW PI	T DATA INPUT SHEE	T		CONT	ROLAB
		Information				
District Municipality	Alfred Nzo	Kilometres	Sout	h	Е	ast
Local Municipality	Umzimvubu	Start	30 ° 53 '	48 "	28 ° 59	45 "
Road Number	DR08015	End	30 ° 25 '	35 "	28 ° 29	' 19 "
	Borrow	Pit Information				
Borrow Pit No. or Source No.:	DR08015 - 33.0KM - RHS	<u> </u>	Borre	ow Pit Co	o - ordinat	es:
KM Log from Start co-ord :	33.0KM - Right Hand Side	<u> </u>	30 °	42		04.1 "
Estimated Yield :	High	E	°	51		47.1 "
Type of Material :	Mudstone + dec Dol + s	andstone		-		
Description of Source :		Comments :				
Existing Borrow Pit	x	Owner: Not identified	J.		- Control Cont	
Cutting in Road		Good potential source		aprilable in the second desired	AND PARTY OF THE P	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPO
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New	ON THE PROPERTY OF THE PROPERT	**************************************	oona markani argambar argami dana yana saasaa aa	***************************************		
	Финада по се образования по с	elektralenikasi jangan paga terekan kalentra pengan paga kenancas ke	ALLEMA COLLINGUA DI MANCALINA CANCELLA	NAME OF TAXABLE PARTY.		
SIGNATURE	A CONTROL OF THE CONT	Committee (Committee)	DATE	:		
	1. Initial A	ssessment Sta	ge			
1.1 Locality Map						
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					1	المحتول
Tele Alias Alsca Gamap Pty Gamap Mana Series 2019 Southern Aloca Streetman		Samona &		D/08169	primery Comments	16 km



tem		Prob	lem
	Yes	No	Don't Know
Grave sites		х	
Fauna		х	
Sites with archaelogical significance		Х	
Buildings, structures or human habitation	X		
Power or telephone lines, overhead		Х	
Railways		Х	
Surface water		Х	
Boreholes		х	
Indigenous plant species		х	
Enviromental sensitive locations		х	
Any other restraints such as uncooperative landowners etc		х	

Surface water	х	
Boreholes	X	
Indigenous plant species	X	
Enviromental sensitive locations	Х	
Any other restraints such as uncooperative landowners etc	х	
Comments :		
		Page 3
		The state of the s



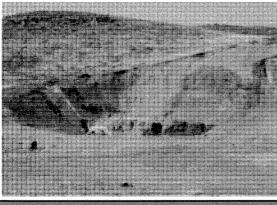
DR08015 BP6 - 33.0KM S30°42'04.9" E28°51'47.7" South West Face - bottom of borrowpit



DR08015 BP6 - 33.0KM S30°42'04.8" E28°51'47.5" South East Face - top of borrowpit



DR08015 BP6 - 33.0KM S30°42'04.6" E28°51'47.5" South East Floor - with small face behind

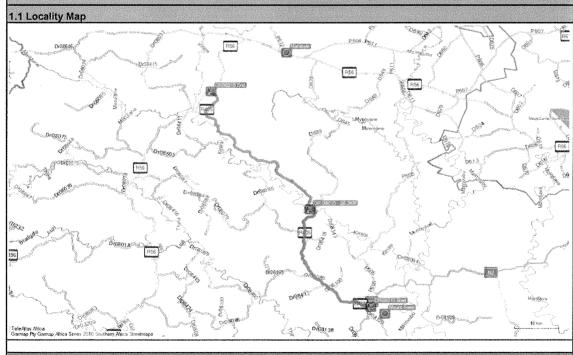


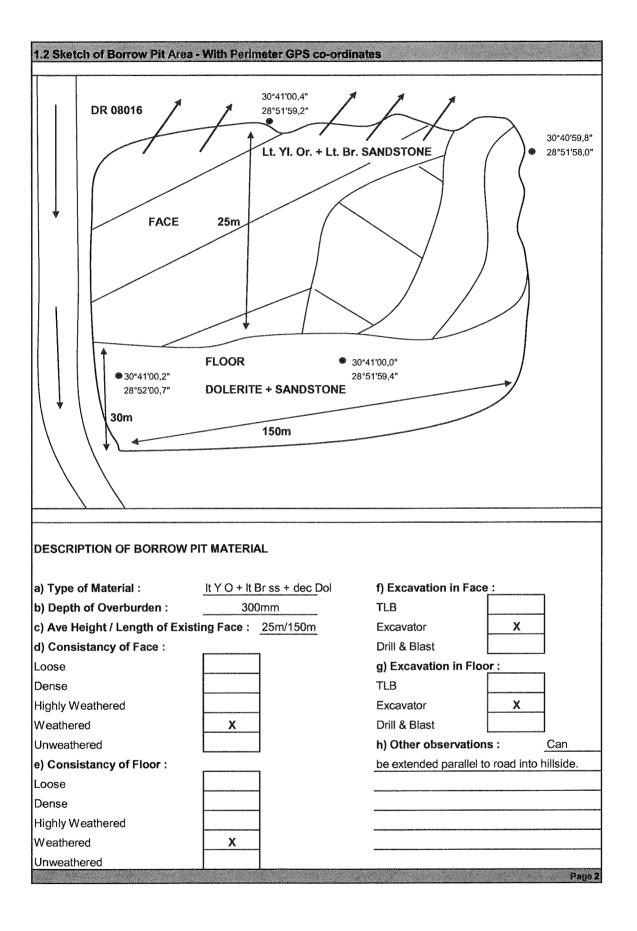
DR08015 BP6 - 33.0KM S30°42'03.8" E28°51'46.6" South West General view





	BORROW PI	T DATA II	NPUT SHEE	Т					CON	NTROL.	.AB
		Inform									
District Municipality	Alfred Nzo	Kild	metres		Sc	outh	1			East	
Local Municipality	Umzimvubu	Start		30 °	⁹ 53		48 "	28	3 °	59 '	45 "
Road Number	DR08015	End		30 °	25	,	35 "	28	3 °	29 '	19 "
	Borrow I	Pit Info	rmation								
Borrow Pit No. or Source No. :	DR08015 - 38.3KM - RHS	·	•		Вс	orro	w Pit (Co-	ordir	nates :	
KM Log from Start co-ord :	38.3KM - Right Hand Side	}	. s	3	30	٥	4	1		00.	4 "
Estimated Yield :	Fair to high	NOONAMEN ADMINISTRAÇÃO ENGLÁSION	. E	2	28	0	5	1	*	59.	.8 "
Type of Material :	Sandstone + dec Dol			***************************************		-			monoipaora		DOMENIA MARIANTA
Description of Source : Existing Borrow Pit Cutting in Road Exposed out Crop New SIGNATURE			Not identified tential source	NAME OF TAXABLE PARTY.		ATE:			Accessorated and a control of the co		
	1. Initial As	ssessn	nent Stag	ge							
1.1 Locality Map	PSS 1985		P504 A		The state of the s	P ²	} }			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	





1.3 Possible Constraints			
Item	BANTOCOSTO QUANTETORICA ACCIONICI ECONOCIA ACCIONANCIA ACCIONICA ACCIONANCIA A	Prob	lem
	Yes	No	Don't Know
Grave sites		х	ONDO ON PORTUGE BUT STANDARD CONTRACTOR OF THE STANDARD ST
Fauna		х	WHAT HE PARTY HOPE CONTROL OF THE PRESENCE AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRAT
Sites with archaelogical significance		х	
Buildings, structures or human habitation		Х	
Power or telephone lines, overhead		Х	
Railways		X	
Surface water		Х	
Boreholes		Х	
ndigenous plant species		х	
Enviromental sensitive locations		Х	
Any other restraints such as uncooperative landowners etc		х	



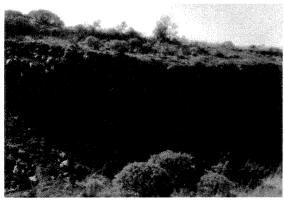
DR08015 BP7 - 38.3KM S30°40'54.2" E28°51'38.1" North East Face - stockpile at top



DR08015 BP7 - 38.3KM S30°40'54.5" E28°51'38.2" North West Face



DR08015 BP7 - 38.3KM S30°40'54.5" E28°51'38.0" South Floor

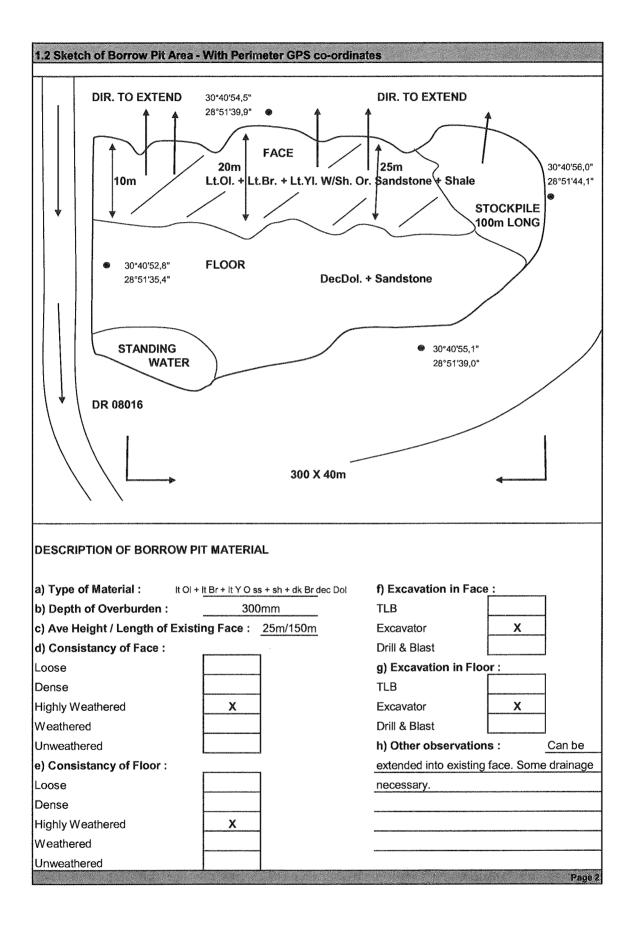


DR08015 BP7 - 38.3KM S30°40'54.9" E28°51'38.2" North East General view





the state of the s	BORROW PI	T DATA INI	PUT SHEE	r				C	ONTRO	LAB
	Road	Informa	ntion							
District Municipality	Alfred Nzo	Kilon	netres		Sou	uth			Eas	t
Local Municipality	Matatiele	Start		30 °	53		48 "	28 °	59 '	45 "
Road Number	DR08015	End		30 °	25	*	35 "	28 °	29 '	19 "
	Borrow	Pit Infor	mation							
Borrow Pit No. or Source No. :	DR08015 - 39.5KM - RHS				Bor	rrov	w Pit C	o - or	dinates	:
KM Log from Start co-ord :	39.5KM - Right Hand Side)	S	3	0	۰.	40		50	.4 "
Estimated Yield :	High	NO METOCOSPICATORAS PEROPERATORAS PARA	E	2	8	۰.	51		41	.6 "
Type of Material:	Shale + sandstone + dec	: Dol		***************************************	o naparamakan		and the second second			
Description of Source :		Comment	s:							
Existing Borrow Pit	X	Owner: No	ot identified							
Cutting in Road		Good pote	ntial source			Avez-				
Exposed out Crop										
New	and the second s				SAN DESCRIPTION					
	Browner-worker-device fourtest	Employees the Committee of the Committee	easterno-environte (principal entre part a	TOTO QUANTITICA NO.		COMPLEXA	TAXABLE PLANTS OF THE SAME	THE RESERVE AND ADDRESS OF THE PERSON NAMED AND	and the second second	***************************************
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SIGNATURE					DAT	ΓE:				
	1. Initial As	ssessm	ent Stag	je <u> </u>						
1.1 Locality Map										
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	415 days	7	[R56]	. 22	3			*/	1-7	
	and the second second	686	Variable		(R56)	Æ.	P607.5		undi Gari	
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Dx08075		0.5%	The state of the s		4 C2	7	6-1-1	April 1	man Alberta	اک ا
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	Common control)	Š			To a	and the same of	Vinnia.	
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and the second second	1 E / Mad	(F2.05)					\$			
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		2								
The state of the s		Dr.09n/3	Place Of Management			be	08109	grania		isteres Chen Z.



1.3 Possible Constraints			
ltem		Prob	olem
	Yes	No	Don't Know
Grave sites		X	illem dan iyo iliyaa qayga kii idaa ee iili daaba ee iilid dahiy iyo iiliya yo gayaya aa aa
Fauna	***************************************	X	HI COMMON THE WAY THE RESIDENCE AND THE WORLD SHOW THE PROPERTY OF THE PROPERT
Sites with archaelogical significance		X	NAMES CONTROL OF THE STREET OF
Buildings, structures or human habitation		X	EMANUSCUSTOMANNAS PROPRIOTOS PROGRAMA PROPRIO PROGRAMA PROFESARIA PROGRAMA PROGRAMA PROPRIO PROGRAMA PROFESARIA PROGRAMA PROFESARIA PROGRAMA PROFESARIA PROGRAMA PROFESARIA PROFESARIA PROGRAMA PROFESARIA PROGRAMA PROFESARIA PROFESAR
Power or telephone lines, overhead		Х	ray rand deninative su independent of the control of the delinative finance demonstrative.
Railways		Х	
Surface water	X		
Boreholes		Х	namento de la constitución de la c
ndigenous plant species		Х	O PRINTER AND INCOME A REPOSSIBLE DATE OF THE PRINTER AND THE
Enviromental sensitive locations		X	
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP8 - 39.5KM S30°39'18.0" E28°52'09.7" South West Face - top of borrowpit



DR08015 BP8 - 39.5KM S30°39'17.9" E28°52'10.4" West Face - bottom of borrowpit



DR08015 BP8 - 39.5KM S30°39'18.3" E28°52'09.0" South East Floor

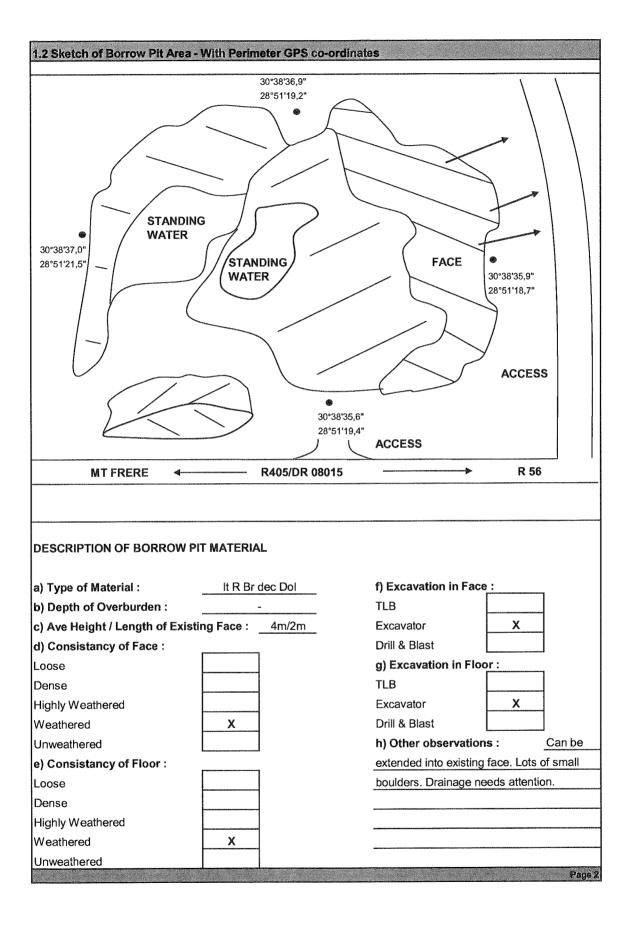


DR08015 BP8 - 39.5KM S30°39'19.7" E28°52'09.3" South West General view





	BORROW PI	T DATA INPUT SHE	ET				cc	ONTROL.	AB
	Road	Information							
District Municipality	Alfred Nzo	Kilometres		So	uth			East	
Local Municipality	Matatiele	Start	30	° 53	•	48 "	28 °	59 '	45 "
Road Number	DR08015	End	30	° 25	•	35 "	28 °	29 '	19 "
	Borrow	Pit Information	n						
Borrow Pit No. or Source No. :	DR08015 - 44.8KM - LHS	- Constitution of the Constitution		Во	rro	w Pit C	o - ord	linates :	
KM Log from Start co-ord :	44.8KM - Left Hand Side	eniesantica va namanaviopilassoina	s	30		38		36	
Estimated Yield :	Fair	programming programming strains	E	28	٥	51		19.	4 "
Type of Material:	dec Dol			- Was described to the second	****	014-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		-	niyesi dipeksisi dara
Description of Source :		Comments :							
Existing Borrow Pit	X	Owner: Not identifie	ed ed	erturațiui en artice	-	wierindasserinasies aug	***********	740-444-444-444	-
Cutting in Road	progration single-constant and a second	Investigated further.	-	lingsplate (principle i pri			-		
Exposed out Crop	marchine in the contraction of t	The standard of the standard o		***************************************		in money and a construction of the constructio	***************************************		************
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i i i	Contractive Contra		***************************************	*************	-				
SIGNATURE	THE PERSON OF TH	ming depolytracy supersocial states		DA	TF		بالجابات بالحاب	************	
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	i, initial As	33C33IIICIIC Ota	ige						
1.1 Locality Map	- 2		q.	100					
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				R56 .	hrezeri	P607/	1	- A. J	or of
			0.00	10×	- S		Salar Sa		NAME OF STREET
e e e		One May	gyane Ivenidina	5	- C	\mathbb{N}	50 A	None	Carra Ingularia
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	V0 (08.503)			27	Secretary.		3.	C.	
				PACE	d				
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- grade District Control of Contr				· I	{			- Ł	
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Germap Pty German Arice Series 2016 Southern Misce Streetman	8 A & /	D08138 Q	ξ.) (*	inge stieredd	")		_	(S'



1.3 Possible Constraints			
ltem	ONCOME STREET, SOME STREET, SOM	Prob	lem
	Yes	No	Don't Know
Grave sites		х	
Fauna		Х	News, edites and a second control of the control of
Sites with archaelogical significance		Х	
Buildings, structures or human habitation		Х	
Power or telephone lines, overhead		Х	WANGE CHEST AND THE CHEST OF TH
Railways		х	
Surface water	х		
Boreholes		Х	
Indigenous plant species		х	
Enviromental sensitive locations		х	
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP9 - 44.8KM S30°38'36.7" E28°51'19.1" North West Face



DR08015 BP9 - 44.8KM S30°38'36.4" E28°51'18.8" North West Face



DR08015 BP9 - 44.8KM S30°38'36.0" E28°51'19.1" South West Floor

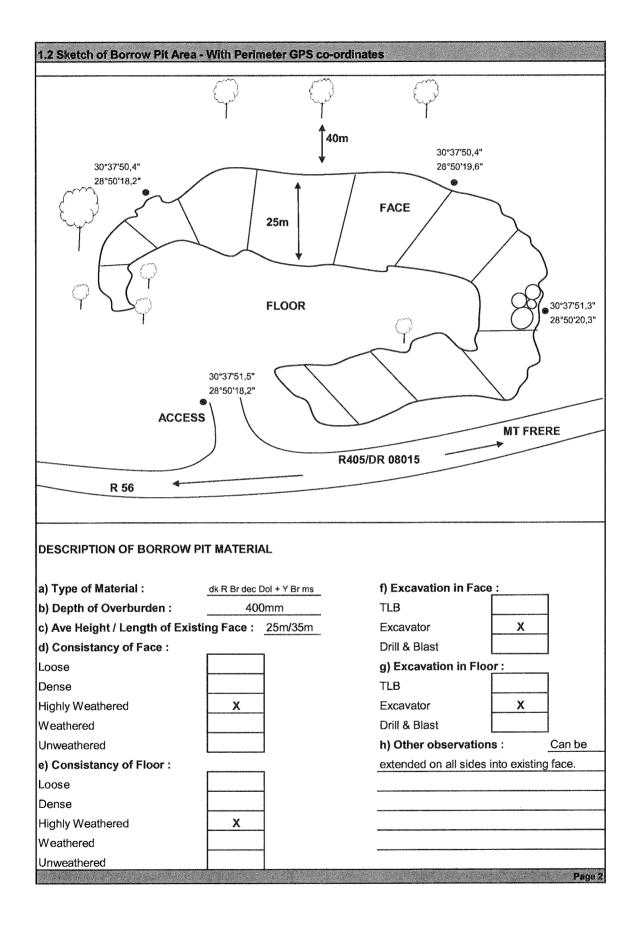


DR08015 BP9 - 44.8KM S30°38'35.9" E28°51'19.6" South East General view





	BORROW P	IT DATA INPU	TSHEET			•	JIIIKOL	.sree.p
	Road	Informati	on					
District Municipality	Alfred Nzo	Kilomet	res	Sout	h		East	
Local Municipality	Matatiele	Start	30 °	53 '	48 "	28 °	59 '	45 "
Road Number	DR08015	End	30 °	25 '	35 "	28 °	29 '	19 "
	Borrow	Pit Inform	ation					
Borrow Pit No. or Source No. :	DR08015 - 47.1KM - RHS	3		Borr	ow Pit C	o - ore	dinates	
KM Log from Start co-ord :	47.1KM - Right Hand Sid	9	S3	<u>0 </u>	31	-	51	1"
Estimated Yield :	High	otaniani minimi manintani	E3	<u>0</u> °	50		18.	.8"
Type of Material:	dec Dol some mudstone	9			***************************************	***************************************	***************	·
Description of Source :		Comments :						
Existing Borrow Pit	X	Owner: Not i	dentified.	at Tooy kan at the last years	Actor (cit Actor Service)	Saki Kosti distanti	negamiento kirjania in transpira	
Cutting in Road	Aprilan Institution (and the contract of the c	Good potentia		Takan kanan manana	PHOTOS STATES ST		***************************************	
Exposed out Crop	and the second of the second o	CONTRACTOR OF THE PROPERTY OF THE				***************************************	***************************************	
New	A	entremolorous monetaris entre en		carcin io outer in pro-	****************	troinikiin piene		***************************************
SIGNATURE	1. Initial A	ssessmen	t Stage	DATE	=:	YMV-7-1-AT-2-T-1		
1.1 Locality Map			1992					
Didestr	45			Sample of the same				
			750) 2 T			
Compression	oures -	pee	Marigan Menigra					
	Drivers Off		F.	9600			**************************************	
The state of the s			Trium /	Washington Street	٠,		5	⟨~`\
Total Control of the	55.5 J 679.00	8		man C			ž Ž	- minst
		Diday 1			agreement of the state of the s			



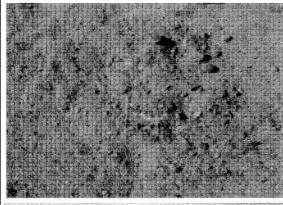
1.3 Possible Constraints			
tem	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	Prob	olem
	Yes	No	Don't Know
Grave sites		х	
Fauna		х	
Sites with archaelogical significance		х	
Buildings, structures or human habitation		х	
Power or telephone lines, overhead		X	
Railways		х	
Surface water	Х		
Boreholes		X	
ndigenous plant species			X
Enviromental sensitive locations	****		X
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP10 - 47.1KM S30°37'50.8" E28°50'18.5" South West Face



DR08015 BP10 - 47.1KM S30°37'50.8" E28°50'19.2" West Face



DR08015 BP10 - 47.1KM S30°37'51.2" E28°50'19.0" South East Floor

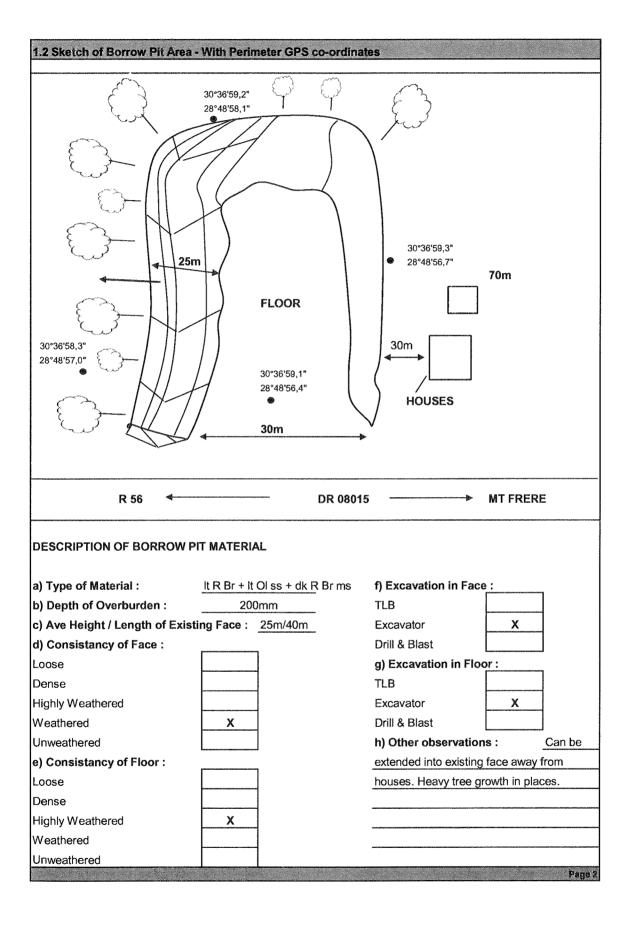


DR08015 BP10 - 47.1KM \$30°37'51.3" E28°50'18.5" East General view





	BOR	ROW PIT DATA INPU	JT SHEET	4			C	ONTROL	AB
		Road Informat							
District Municipality	Alfred Nzo	Kilome	tres		Sou	th		East	
Local Municipality	Matatiele	Start		30 °	53	<u>' 48 "</u>	28 °	59 '	45 "
Road Number	DR08015	End		30 °	25	' 35 "	28 °	29 '	19 "
	Во	rrow Pit Inforn	nation						
Borrow Pit No. or Source No. :	DR08015 - 51.2K	M - RHS			Bor	row Pit C	o - ord	dinates :	
KM Log from Start co-ord :	51.2KM - Right Ha	and Side	S	3	0	° <u>36</u>	. e	59	11
Estimated Yield :	Fair	entennen terretaria de la companya del companya de la companya del companya de la	E	2	8	° 48	و حيضيتيجن	56.	9 "
Type of Material :	Sandstone & mu	dstone				****	************		
Description of Source :		Comments :	•						
Existing Borrow Pit	X	Chief: Mrs N	•	(Tel: I	076 34	9 0103)	NACO PROPERTY.	Kumana ayna Galekan	***************************************
Cutting in Road		Investigated	NAMES OF TAXABLE PARTY	-			· · · · · · · · · · · · · · · · · · ·	-	CATALOGICAL PARTICIPATION OF
Exposed out Crop		encetario menoperati recumenta de la consecuencia de consecuen	en escolution de la company de	***************************************		entre reconstruction of the second	**********	************	-
New	en e	edisonisiput (pinyimmoulimi popularana		-	- processor of the second			***************************************	der tradesiries accessory
SIGNATURE	1. Ini	tial Assessmer	nt Stag	le .	DAT	E:			
1.1 Locality Map				· -					
Door Door Door Door Door Door Door Door		DOMEST CONTRACT	TOO OF THE PARTY O						
Tele Alles Aricu Gamiap Ply Gamap Arica Seces 2016 Southern Arica Screens	- L	bion13	. %	1		D-pailed-	-	10 k	<u> </u>



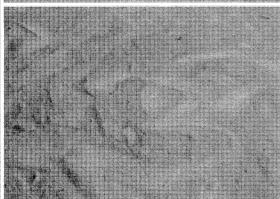
tem		Prob	olem
	Yes	No	Don't Know
Grave sites		х	
auna		х	
Sites with archaelogical significance		х	
Buildings, structures or human habitation	х		
ower or telephone lines, overhead		х	
dailways		Х	
Surface water		X	немостимостический и поставлений и поставлений и поставлений и поставлений и поставлений и поставлений и поста В поставлений и поставлени
Boreholes		х	nersel alla dichi di companda di conserva di companda di conserva di conserva di conserva di conserva di conse
ndigenous plant species			X
Enviromental sensitive locations	enaken ooken missä nii 400 on missä muulika kaken	mineral mention and the second and t	
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP11 - 51.2KM S30°36'58.4" E28°48'56.8" South Face - lots of trees



DR08015 BP11 - 51.2KM S30°36'59.1" E28°48'57.3" North West Face



DR08015 BP11 - 51.2KM S30°36'59.0" E28°48'56.9" South East Floor

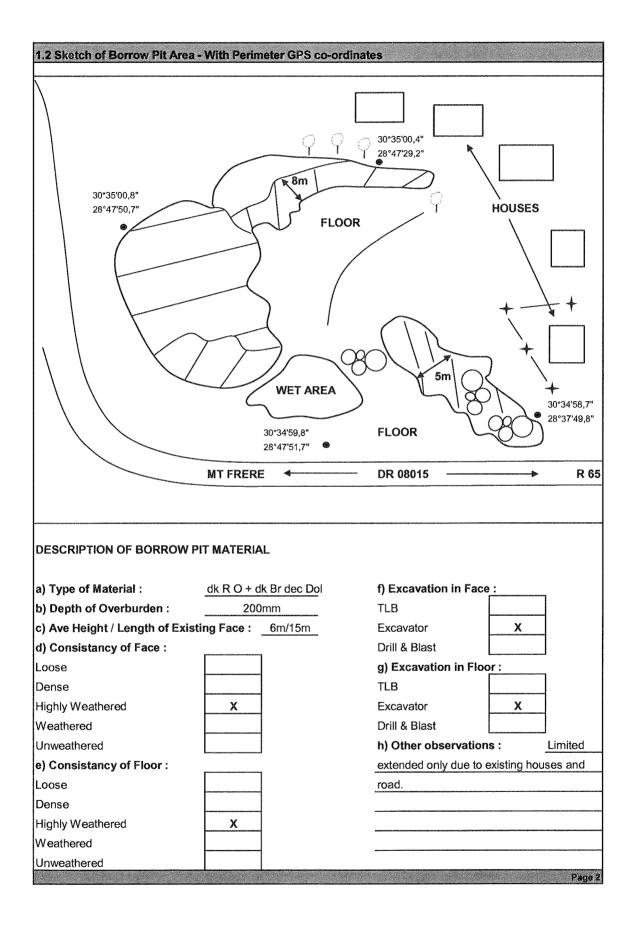


DR08015 BP11 - 51.2KM S30°36'58.8" E28°48'56.5" North East General view





	BORRO'	W PIT DATA INPUT S	SHEET		CONTROLAB
		oad Information			
District Municipality	Alfred Nzo	Kilometre	s Sout	h	East
Local Municipality	Matatiele	Start	30 ° 53 '	48 " 28	° 59 ' 45 "
Road Number	DR08015	End	30 ° 25 '	35 " 28	° 29 ' 19 "
	Borre	ow Pit Informat	tion		
Borrow Pit No. or Source No. :	DR08015 - 56.4KM -	LHS	Borr	ow Pit Co - o	ordinates :
KM Log from Start co-ord :	56.4KM - Left Hand S	Side	S <u>30</u> °	34	59.4 "
Estimated Yield :	Poor	BATTONIO I SACCOMONICATA INTERPRESENTA INTERPRESENTA DE SACCOMONICA DE SACCOMONIC	E 28 °	47	50.6 "
Type of Material :	Decomposed Doler	te		on militario de misso de la marcia de la marci	
Description of Source :		Comments :			
Existing Borrow Pit	X		andela (Tel: 076 349	0.0103)	natural menanggan dapat sampan pengengkan pengengkan pengengan pengengan pengengan pengengan pengengan pengeng
Cutting in Road	Marie Marie Santa Carlo Ca	advisoria indicatoria batteratica di	considering at this s		
Exposed out Crop	MARIEN OFFICIAL PROPERTY AND ADDRESS AND A	al-manage management and include the contrast of the contrast	Commence of the Assessment of the Commence of	.090.	
New	manningen proposed a see missippoin		etan markista misika kalunda 2001 masternati eta mereketa 10		***************************************
SIGNATURE			DATE	:	
	1. Initia	l Assessment	Stage	10 mg	
1.1 Locality Map		7 8		-	
DOMOTS SEE	Original ori	Done Control of the C	Total Action Section 1		
Telo Alas Mica Gurinop Pry Gormap Arica Senes 2010 Scuttern Alica Streetman		Ougatas Dodanya		Dry8105)	Michigan 10 km



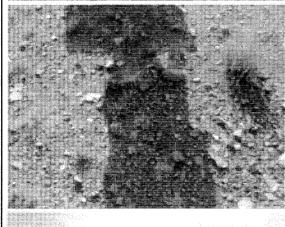
em		Prob	
	Yes	No	Don't Know
Grave sites	***************************************	X	ONE STATE OF THE S
auna	***************************************	X	TO ARCHITICATE CONTROL
ites with archaelogical significance		X	ALONGO DE MASSAULT SINTENNAMENTA MASSAULTO O MASSAULT SINTENNAMENTA SINTENNAMENTA SINTENNAMENTA SINTENNAMENTA
uildings, structures or human habitation	X		entrologico de composito entrologo de composito de la composit
ower or telephone lines, overhead		Х	
ailways		Х	ikichidariheadi Adri-dremainal nidoosariostoottustoottustoottustoottustoottustoottus
urface water	X	MATERIAL STATE OF THE STATE OF	##OCE#SOOMAL-MOORING FARESCHICK STREET (IN COLUMN)
oreholes		X	
digenous plant species	ingyktia majajawajahanimanapanjahinganjaga	Х	
nviromental sensitive locations		Х	
ny other restraints such as uncooperative landowners etc		х	



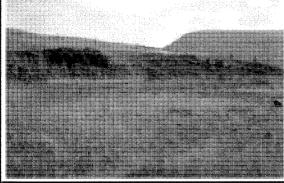
DR08015 BP12 - 56.4KM S30°34'59.8" E28°47'50.3" North West Face - trees in distance



DR08015 BP12 - 56.4KM S30°34'59.4" E28°47'50.2" South West Face - second face in background



DR08015 BP12 - 56.4KM S30°34'59.4" E28°47'50.6" North West Floor

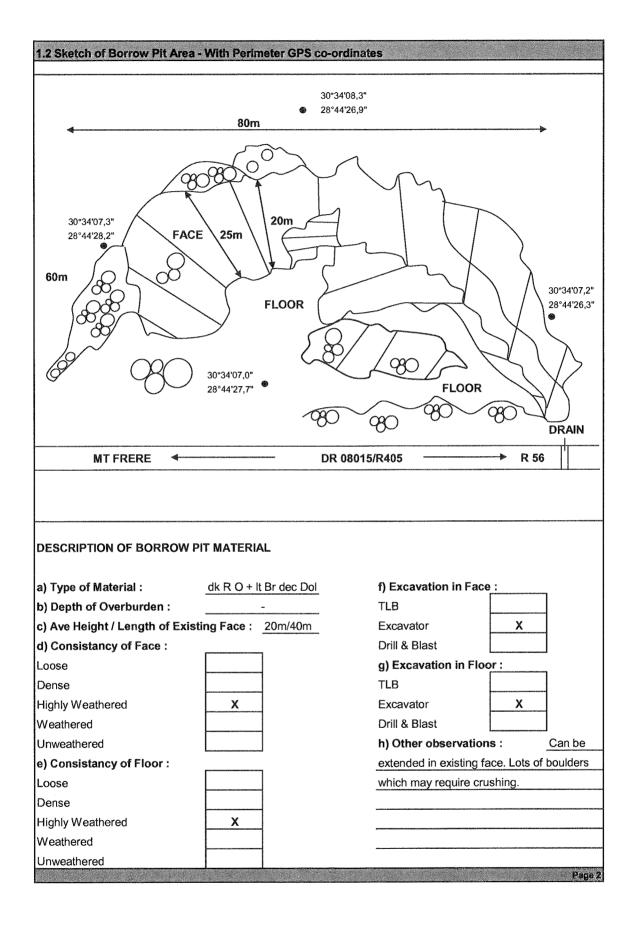


DR08015 BP12 - 56.4KM S30°34'59.8" E28°47'51.9" North West General view





	BORROW PI	T DATA INPUT SHEE	ΕT		CONTROL	AB
		Information				
District Municipality	Alfred Nzo	Kilometres	Sout	h	East	
Local Municipality	Matatiele	Start	30 ° 53 '	48 "	28° 59'	45 "
Road Number	DR08015	End	30 ° 25 '	35 "	28° 29'	19 "
	Borrow	Pit Information	1			
Borrow Pit No. or Source No. :	DR08015 - 63.3KM - LHS		Borr	ow Pit Co	- ordinates :	
KM Log from Start co-ord :	63.3KM - Left Hand Side		S <u>30</u> °	34	. 07.	1 "
Estimated Yield :	Fair to High		E 28 °	44	27.0	6 "
Type of Material :	Decomposed Dolerite	······································	od same mental desiration in a determinant			***********
Description of Source :		Comments :				
Existing Borrow Pit	X	Chief: Mrs Matandel	la (Tel: 076 349	0103)	-	Periodic and Property of the Periodic and Periodic and Periodic and Periodic and Periodic and Periodic and Per
Cutting in Road	amateuronida () iliminon openio più aine	Needs further investi		and the same of	Productive Control of the Control o	initial ministration (co
Exposed out Crop	aserbaterina capitain sti, con mir est	Management of the second secon	X			-
New	Cancellar Character or Sangapori, Super	eta esta maleta esta esta esta esta esta esta esta e		ir personan irana marayan kuluni		***************************************
SIGNATURE	1. Initial As	ssessment Sta	DATE I ge			
1.1 Locality Map			S 0000 S			-
DOBOR CONTROL OF THE PARTY OF T	115 Orosson	PSOAL Magazine				
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		20145		grant g ^{ora} nting	# 1 min 1 mi	Land Services

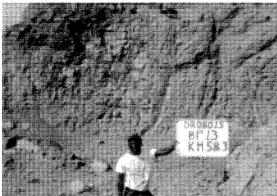


Item		Prob	lem
	Yes	No	Don't Know
Grave sites		Х	
Fauna		х	
Sites with archaelogical significance		Х	
Buildings, structures or human habitation		Х	
Power or telephone lines, overhead		х	
Railways		х	
Surface water		Х	
Boreholes		х	
Indigenous plant species		Х	
Enviromental sensitive locations		Х	
Any other restraints such as uncooperative landowners etc		х	унунчеснуск удинантого у каккоостин соостина мубис ин монитости изсессоо

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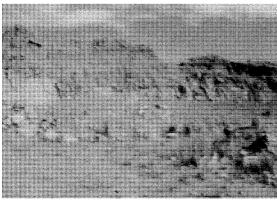
DR08015 BP13 - 63.3KM S30°34'07.3" E28°44'27.8" North West Face



DR08015 BP13 - 63.3KM S30°34'07.4" E28°44'27.2" South Face - second face in background



DR08015 BP13 - 63.3KM S30°34'07.0" E28°44'27.7" South West Floor

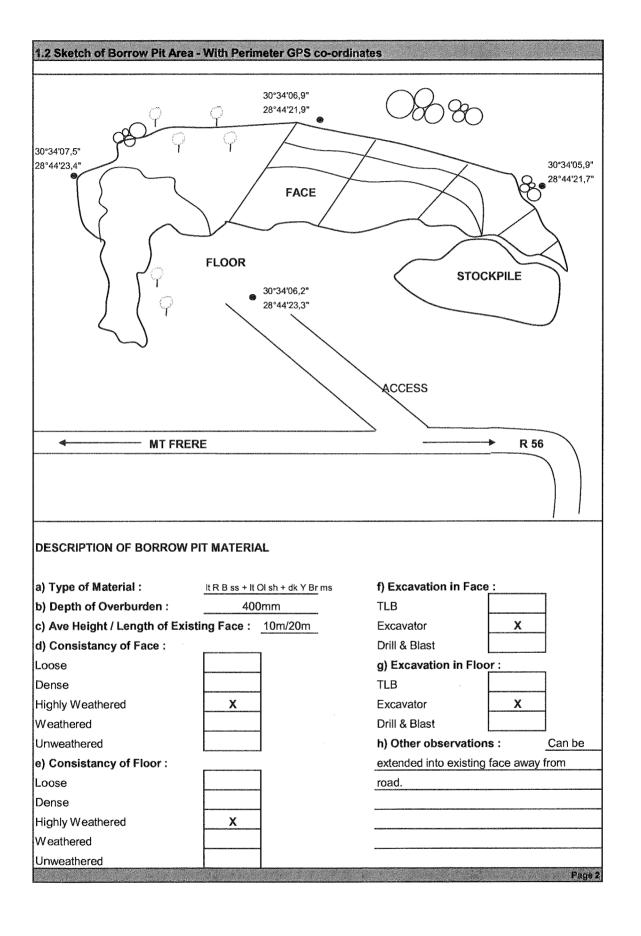


DR08015 BP13 - 63.3KM S30°34'06.2" E28°44'28.2" South West General view





	BORROW PI	Γ DATA II	NPUT SHEET	Γ			C	ONTROL	.AB
	Road	Inform	ation						
District Municipality	Alfred Nzo	Kilo	metres		South	tinckovani maninotalnostini kirk		East	
Local Municipality	Matatiele	Start		30 °	53 '	48 "	28 °	59 '	45 "
Road Number	DR08015	End		30 °	25 '	35 "	28 °	29 '	19 "
	Borrow I	Pit Info	rmation						
Borrow Pit No. or Source No. :	DR08015 - 63.4KM - LHS	***************************************			Borro	w Pit C	o - ord	dinates	:
KM Log from Start co-ord :	63.4KM - Left Hand Side	near-therminal distributions	S	30		34	·	07	.1"
Estimated Yield :	High	najan pandinjaka jajaka	E	28	0	44	·····	27	.6 "
Type of Material :	Sandstone, shale and me	udstone	-	***************************************		angan pindapi sina na sisa na	**********		
Description of Source :		Commer	nts :						
Existing Borrow Pit	[x]	Chief: M	rs Matandela	(Tel: 0	76 349	0103)	erionis migrandri pr	en e	
Cutting in Road			ential source		na electrica and an electric	والمنتبعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة والمتناوعة و		nemetrical especial con-	
Exposed out Crop		and the first and the second sections			***************************************	ing the property of the section of	*****	***************************************	
New	meaning on the military response is in the	environtion in periodical		Na transcription (Construction of the Con-		Andrew Agent Management Prints		minimum management	A DESCRIPTION OF THE PROPERTY
SIGNATURE	1. Initial As	sessn	nent Stag	je	DATE				
1.1 Locality Map		<u> </u>	9	7	Other		- ()	3,	607 GE
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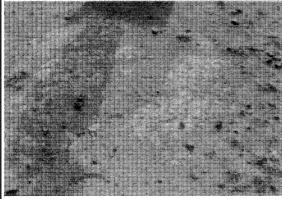
tem		Prob	ilem
	Yes	No	Don't Know
Grave sites	managam akkan kina dipantuk managan kan kan akkan	х	дестой дей и боловорого то фолостичного в почение почение почение почение почение в составляет и почение в сос
auna		х	ON SECTION SEC
Sites with archaelogical significance		х	
Buildings, structures or human habitation		Х	
ower or telephone lines, overhead		Х	
Railways:		Х	
Surface water		х	
Boreholes		х	
ndigenous plant species		х	
nviromental sensitive locations		Х	
any other restraints such as uncooperative landowners etc		х	



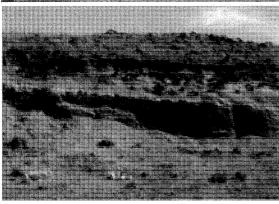
DR08015 BP14 - 63.4KM S30°34'06.6" E28°44'22.2" North West Face - stockpile



DR08015 BP14 - 63.4KM S30°34'06.5" E28°44'22.0" South Face



DR08015 BP14 - 63.4KM S30°34'06.4" E28°44'22.5" South West Floor



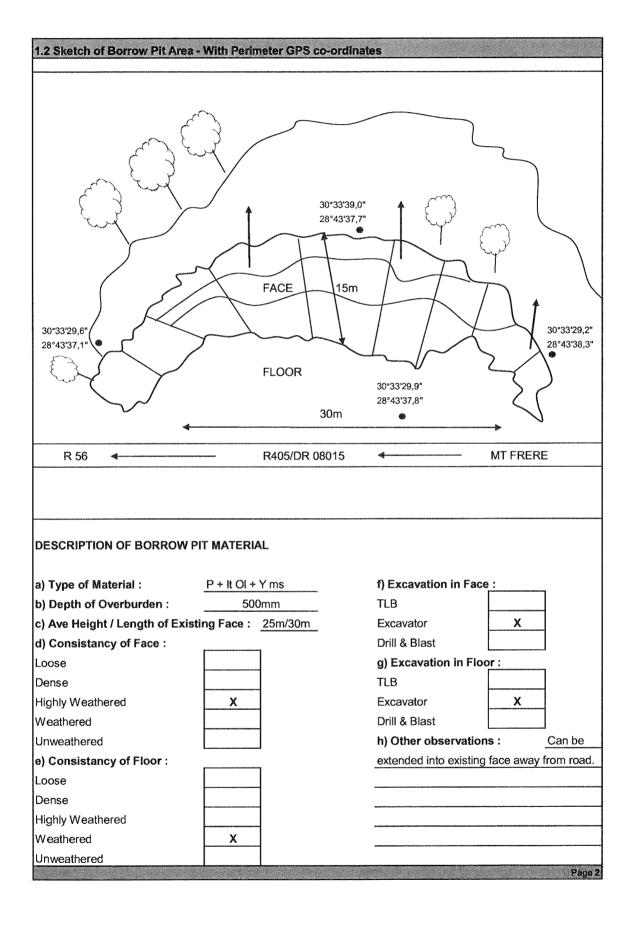
DR08015 BP14 - 63.4KM S30°34'06.2" E28°44'23.0" South West General view



PROVINCE OF EASTERN CAPE BORROW PIT MANAGEMENT SYSTEM FOR THE **DEPARTMENT OF ROADS AND TRANSPORT**



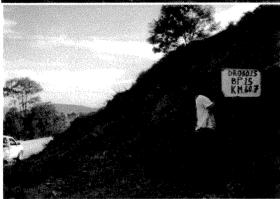
	BORROW PI	T DATA INPUT SHE	ΕŢ		CONTROLAB
		Information			
District Municipality	Alfred Nzo	Kilometres	South		East
Local Municipality	Matatiele	Start	30 ° 53 '	48 " 28	° 59 ' 45 "
Road Number	DR08015	End	30 ° 23 '	35 " 28	° 29 ' 19 "
	Borrow	Pit Information	1		
Borrow Pit No. or Source No. :	DR08015 - 66.0KM - RHS)	Borro	w Pit Co - o	rdinates :
KM Log from Start co-ord :	66.0KM - Right Hand Side		S <u>30</u> °	33	' 29.9 "
Estimated Yield :	High		E 28 °	43	37.1
Type of Material :	Mudstone			arani magamika antang sanjunjakan	ncent and make the second contract of the second
Description of Source :		Comments:			
Existing Borrow Pit	X .	Chief: Mrs Matande	la (Tel: 076 349	0103)	
Cutting in Road	Andrew Delice Control of the Control	Good potential source	and the second s	0100)	
Exposed out Crop	Names and Confession	Good potential Source	(Mindelphanestra)		
New	ameningsistensistensistensis intriviolisis isas		A STATE OF THE PARTY OF THE PAR	***************************************	
	Description of the second seco		orani yana ana ana ana ana ana ana ana ana an		
SIGNATURE	The state of the s	The second secon	DATE		and the second s
	1. Initial A	ssessment Sta	ge		
1.1 Locality Map			AV.		
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	415.		Mangana .	/	
		(R56)	-34 / \	Y	
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		N.3			
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Second Second	Singeston .		Total Control of the		
South Section 1	Consuma and a second		Positive Control of Co	Tour Source	
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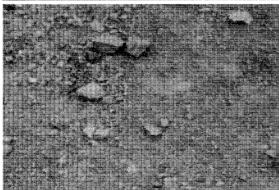
1.3 Possible Constraints			
ltem	THE RESIDENCE OF THE PROPERTY	Prob	ilem
	Yes	No	Don't Know
Grave sites	Western 200 Ber Greich Albeite Antonie deutscher State bezweiter eines	Х	MANAGE STEELEM SEPERATE OF THE STEELEM
auna	***************************************	х	
Sites with archaelogical significance		х	AND THE PROPERTY AND TH
Buildings, structures or human habitation	MATERIAL DESCRIPTION OF THE PROPERTY OF THE PR	х	oonaatan aanaa ka k
Power or telephone lines, overhead	TOTAL COMPANY AND	х	SEASON SECTION SECTION CONTRACTOR
Railways		х	STATE OF THE STATE
Surface water	0.000	Х	accusation to comparison of the second control of the comparison of the second control o
Boreholes		Х	CONTROL SCHOOL STREET,
ndigenous plant species			Х
Enviromental sensitive locations			X
Any other restraints such as uncooperative landowners etc		Х	



DR08015 BP15 - 66.0KM S30°33'29.3" E28°43'37.5" South East Face and road



DR08015 BP15 - 66.0KM S30°33'29.6" E28°43'37.8" South West Face and trees



DR08015 BP15 - 66.0KM S30°33'29.6" E28°43'37.7" North West Floor

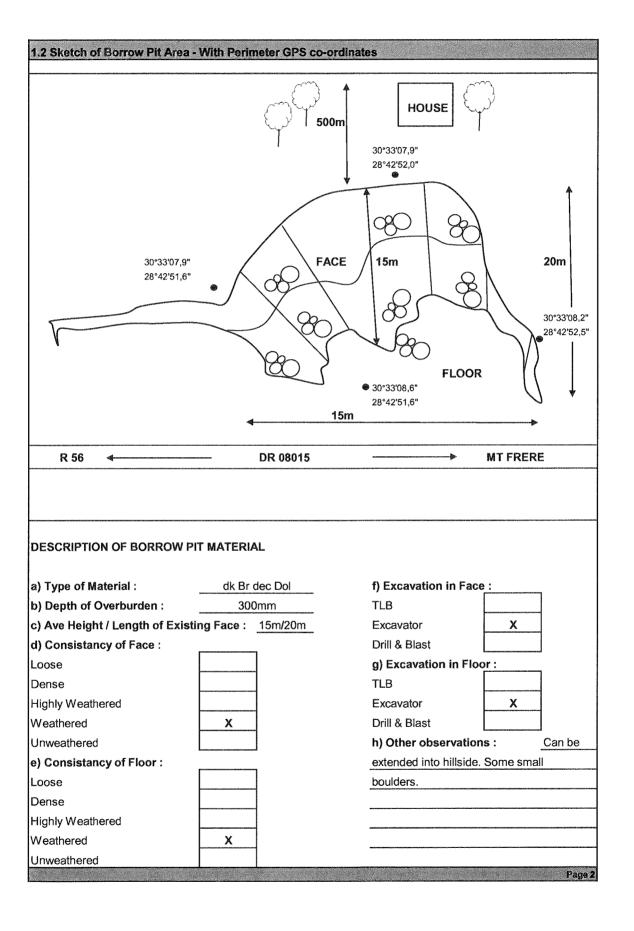


DR08015 BP15 - 66.0KM S30°33'29.3" E28°43'37.9" North West General view





	BORROW PI	T DATA INPUT SHE	EET					C	OHTROL	AB
	Road	Information								
District Municipality	Alfred Nzo	Kilometres			Sc	uth	1		East	
Local Municipality	Matatiele	Start	3	30	° 53	•	48 "	28	° 59 '	45 "
Road Number	DR08015	End	3	30	° 25		35 "	28	° 29 '	19 "
	Borrow	Pit Informatio	n							
Borrow Pit No. or Source No. :	DR08015 - 67.4KM - RHS				Во	orro	w Pit C	o - or	dinates :	
KM Log from Start co-ord :	67.4KM - Right Hand Side)	S	-	30		33		08.	3 "
Estimated Yield :	Fair to High	-	Ε	سننس	28	۰	42		51.	8 "
Type of Material :	dec Dol		************					and the same of th	-	-
Description of Source :		Comments :								
Existing Borrow Pit	X	Chief: Mrs Matande	 آ/ داد	ام۲	. 076 3	10	0103)	***************************************	***************************************	annomphicamericam
Cutting in Road		Good potential sour		161	. 070 .		0103)	en parone se en		NAME OF TAXABLE PARTY.
Exposed out Crop	on contract to proper property.	Good potential soul	106.	*********	-corrections and	***********		***************************************		
New			***************************************	********	and the second	-	ئىزىرىنىنىنىنىنى	************		
1100	Lineironamorranioneni		***************************************		ny many mandrin	enai en eixe	*****************	********		***********************
SIGNATURE		na in accompliant in adjugation ph			DA	TE:	· · · · · · · · · · · · · · · · · · ·	·		in orași de la constant
	1. Initial As	ssessment St	age)						
1.1 Locality Map										
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The state of the s					*hang	idos e		· /	("	Andrew Control
		(R56)	nodernia og	g i		Shertwood,		Ž		0,500
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Tele Nine Africa Gamillo Ply Gamap Milca Series 2016 Southern Milca Screetina	C 0,000,00	Didana Q			Series (D	98109	of principal section of the section	10%	<u> </u>
	93 n (56)	74 / W.		4.	2.)			-	*	



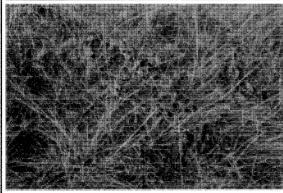
ltem		Prob	ilem
	Yes	No	Don't Know
Grave sites		Х	OCH CONTROL OF THE PROPERTY OF
Fauna		Х	
Sites with archaelogical significance		х	
Buildings, structures or human habitation	Х		alkanderen erretak de bereiken erretak erretak erretak erretak den erretak den erretak erretak den erretak err
Power or telephone lines, overhead		х	
Railways		х	
Surface water		х	
Boreholes		Х	
ndigenous plant species		Х	
Enviromental sensitive locations		х	
Any other restraints such as uncooperative landowners etc		х	



DR08015 BP16 - 67.4KM S30°33'08.2" E28°42'51.9" South East Face



DR08015 BP16 - 67.4KM \$30°33'08.1" E28°42'52.1" North West Face



DR08015 BP16 - 67.4KM S30°33'08.3" E28°42'51.8" South East Floor



DR08015 BP16 - 67.4KM S30°33'08.6" E28°42'52.0" North East General view



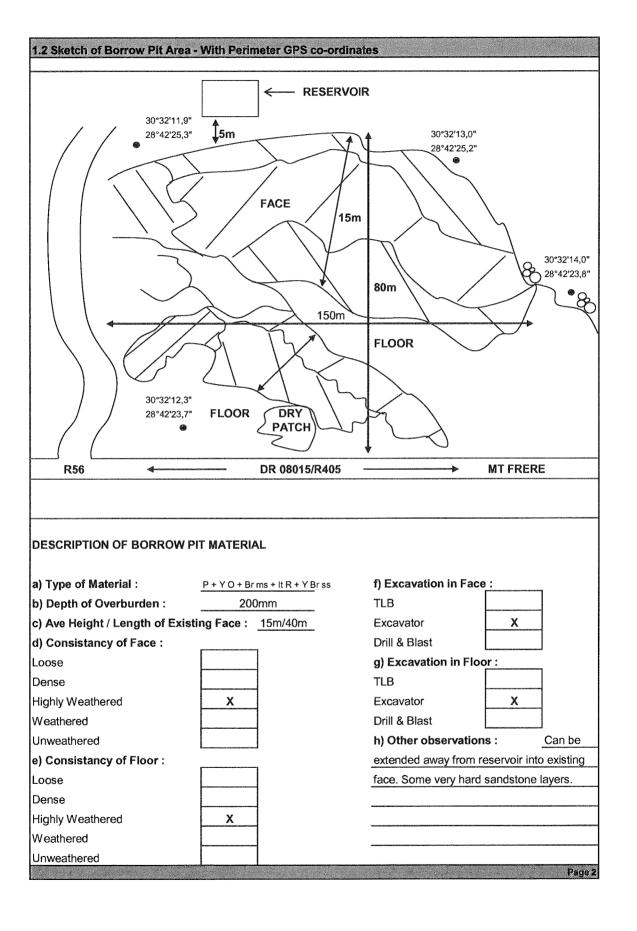
BORROW PIT MANAGEMENT SYSTEM FOR THE **DEPARTMENT OF ROADS AND TRANSPORT**



BORROW PIT DATA INPUT SHEET

	R	oad Information												
District Municipality	Alfred Nzo	Kilometres			Sou	ıth					E	ast		
Local Municipality	Matatiele	Start		30 °	53	•	48	н	28	٥	59	•	45	90
Road Number	DR08015	End	*************	30 °	25		35	.,	28	0	29	•	19	11

	Road	Information						
District Municipality	Alfred Nzo	Kilometres		South			East	wariner was a said
Local Municipality	Matatiele	Start	30 °	53 '	48 "	28 °	59 '	45 "
Road Number	DR08015	End	30 °	25 '	35 "	28 ° 2	29 '	19 "
	Borrow	Pit Information	l .					
Borrow Pit No. or Source No. :	DR08015	and the state of t		Borro	w Pit Co	o - ordina	ates :	
KM Log from Start co-ord :	DR08015 - 69.7KM - RHS	5	30	0	32		12.2	, "
Estimated Yield :	Fair	E	28	0	42		23.4	
Type of Material :	Mudstone and sandstor	10	·	-		and the state of t	TOTAL MARKET ALLESSA	
Description of Source :		Comments :						
Existing Borrow Pit	X	Chief: Mrs Matandela	a (Tel: 07	349	0103)	**************	Market Company	***************************************
Cutting in Road	energitarinerije kijemoja ir omplepagarinem	Investigate further.			· ····································	CONTRACTOR SERVICE	ketistoleksenskipsunstina	ano minera ricco i solicita
Exposed out Crop		unice continue continue de la contin		***************************************			elepitalisti in menerologica	***************************************
New			and the same property and the same party and the sa	************		-	***************************************	***************************************
	the state of the s		diamental de la constantia de la cons	-		-	****************	
SIGNATURE 1.1 Locality Map	1. Initial A	ssessment Sta		DATE		NI DOMESTIC	E597	A Re
		R55			T.		by Contract of State	- 1080 S
Drivery St.	Omeson a		******	^C ≥ {(≤	A S	e de la companya de l	ST TO	
	Orienta Double							
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		Diggstry Trans		**************************************			C. Mileston	



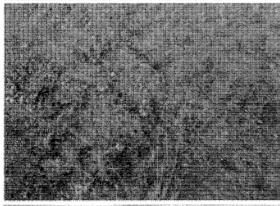
	Contracting the Contracting Co		
tem	***************************************	Prob	
	Yes	No	Don't Know
Grave sites	THE PROPERTY OF THE PROPERTY O	X	
Fauna		X	
Sites with archaelogical significance		Х	BLANCE (Front 1963) Print (Front 1964) A Strick List List Andrews Andrews Construction of the American
Buildings, structures or human habitation	X	V	
Power or telephone lines, overhead		X	The second control of
Railways Gurface water	NATIONS ASSESSMENT OF THE PROPERTY OF THE PROP	X	ekiteld feskhalmerin o cancara manmanaran manmanaran samaya, (1000) ere eye eye estere eze
Boreholes	NATIONAL AND	X	Piridado A Human waran maran maran maran na maran maran na maran na maran na maran na maran na maran na maran n Na maran na
ndigenous plant species	·········	X	
inviromental sensitive locations		X X	
Any other restraints such as uncooperative landowners etc		x	CONTRACTOR STATE OF THE STATE O



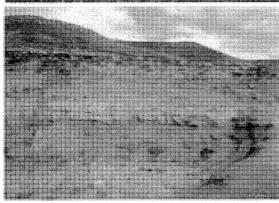
DR08015 BP17 - 69.7KM S30°32'12.5" E28°42'23.9" South West Face - road



DR08015 BP17 - 69.7KM S30°32'12.7" E28°42'23.6" South East Face



DR08015 BP17 - 69.7KM S30°32'12.8" E28°42'23.6" South East Floor



DR08015 BP17 - 69.7KM S30°32'12.4" E28°42'23.5" South East General view





	BORROW	PIT DATA INPUT S	HEET			cc	OHTROL	.AB
	Roa	d Information	1					
District Municipality	Alfred Nzo	Kilometres	,	Sout	h		East	
Local Municipality	Matatiele	Start	30	° 53 '	48 "	28 °	59 '	45 "
Road Number	DR08015	End	30	° 25 '	35 "	28 °	29 '	19 "
	Borrov	Pit Informat	ion					
Borrow Pit No. or Source No.	DR08015 - 74.0KM - RI	HS		Borr	ow Pit C	o - orc	linates	*
KM Log from Start co-ord :	74.0KM - Right Hand Si	de	s	30 °	30		58	.7"
Estimated Yield :	Fair to High	OTTO VATOROO TAANGOO MAANAA MA	E	28 °	40		35	.5 "
Type of Material :	Mudstone and decomp	oosed Dolerite					towns in the second second	-
Description of Source :		Comments :						
Existing Borrow Pit	X	Chief: Mrs Mata	ndela (Tel	076 349	0103)			
Cutting in Road	OCTOR OR AND ADDRESS OF THE PARTY OF THE PAR	Good potential s		OTO OTO		-		***
Exposed out Crop	pro-produces section opposition reconstruction	energy committee and a second a	00100.	NATIONAL CONTRACTOR		and the second		THE PERSON NAMED OF THE PERSON
New	CONTROL OF THE PROPERTY CONTROL	ettoriomenten organism maxicolasinaali võitus	enios iamposarioni, italiaene.	EMPERET LANGUE COMPANY	***********	***************************************	ere i xiologici e incinio	***************************************
	Воне эконорический саморомилия ——————————————————————————————————	egopoor in reconstitutement constitutement was not with earth of	economica (experience) activides	AND THE PROPERTY OF THE PARTY O	************	M34)36M04M16M	(DPILISIPANICE)	***************************************
SIGNATURE 1.1 Locality Map	1. Initial /	Assessment (Stage	DATI	<u> </u>			
Dreess Consort	RES CONSISTANCE OF THE PROPERTY OF THE PROPERT		55 Manuage					RE REE
	Driego Driego		man S					
	The state of the s	DiORALY DKSR202			grand print the same	-63	and the second	

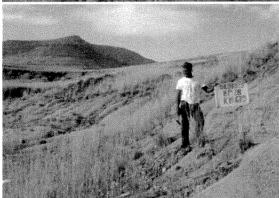
1.2 Sketch of Borrow Pit Area -	With Perimeter GPS co-ordin	ates
30°30'57,0" 28°40'38,0"	30°30'58,3° 28°40'38,1° FLOOR OCKPILE STOCKPILE FLOOR 30°30'58,8" 28°40'35,4"	30°30′59,8″ 28°40′36,5″ • • • • •
	28*40*35,4**	
R56 ◀	DR08015/R405	→ MT FRERE
DESCRIPTION OF BORROW PI	IT MATERIAL	
a) Type of Material :	dk R Br dec Dol + P + Gr ms	f) Excavation in Face :
b) Depth of Overburden :	TANAN-AND AND THE COMMENT OF THE COM	TLB
c) Ave Height / Length of Existi	ing Face: 6m/8m	Excavator X
d) Consistancy of Face :	Managon and Andread Associated Conference Co	Drill & Blast
Loose	The state of the s	g) Excavation in Floor :
Dense	A CONTRACTOR OF THE PROPERTY O	TLB
Highly Weathered	X	Excavator X
Weathered	An instruction of the second s	Drill & Blast
Unweathered	AMERICANA RESERVATE PRINCIPAL PRINCI	h) Other observations : Can be
e) Consistancy of Floor :	Longourous contract versus ver	extended into existing hillside.
Loose	AND THE SECOND AND ASSESSMENT OF THE SECOND	
Dense	Consideration and Constitution and Const	
Highly Weathered	X	
Weathered	mercennuscoccus actives active subdisse rose	
Unweathered	MANAGEM AND THE OWNERS AND	
The same of the sa		Page 2

1.3 Possible Constraints			
Item		Prot	olem
	Yes	No	Don't Know
Grave sites	VIVIVINO AND VICTORIA AND AND AND AND AND AND AND AND AND AN	Х	
auna		х	
Sites with archaelogical significance		х	
Buildings, structures or human habitation		х	ийн Сууна Абу л (4,4 7,600 бүү 1904 бай) ой Махамданы отойоо тахаасаа дахаалаа хахаа
Power or telephone lines, overhead		х	
Railways		х	
Surface water		х	O LEAST TO SECOND THE CONTRACT OF THE CONTRACT
Boreholes		х	
ndigenous plant species		х	
Enviromental sensitive locations		х	
Any other restraints such as uncooperative landowners etc		х	

1.4 Photo Report



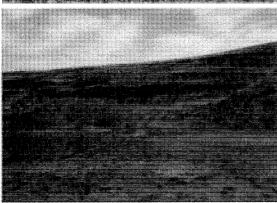
DR08015 BP18 - 74.0KM S30°30'58.7" E28°40'37.9" South West Face



DR08015 BP18 - 74.0KM S30°30'59.1" E28°40'37.1" South East Face



DR08015 BP18 - 74.0KM S30°30'58.7" E28°40'37.5" South West Floor



DR08015 BP18 - 74.0KM S30°30'58.1" E28°40'35.6" North East General view

HERITAGE IMPACT ASSESSMENT OF BORROW PITS IN ALFRED NZO DISTRICT MUNICIPALITY, EASTERN CAPE PROVINCE, SOUTH AFRICA

Prepared for

Terratest (Pty) Ltd

Box 794 Hilton 3245
Telephone Magnus van Rooyen 033 343 6789
Fax 033 343 6788 vanrooyenm@jgi.co.za

Prepared by

eThembeni Cultural Heritage

Len van Schalkwyk and Beth Wahl Box 20057 Ashburton 3213 Pietermaritzburg Telephone 033 326 1136 / 082 655 9077 / 082 529 3656 Fax 086 672 8557 thembeni@iafrica.com

14 June 2011

Management summary

eThembeni Cultural Heritage was appointed by Terratest (Pty) Ltd to undertake a heritage impact assessment of various borrow pits in the Eastern Cape Province, in terms of the National Environmental Management Act 107 of 1998 as amended, in compliance with Section 38 of the National Heritage Resources Act 25 of 1999. eThembeni staff members inspected the area from 23 to 26 May 2011 and completed controlled-exclusive surface surveys.

Description of heritage resources and significance assessment

Landscapes and natural features

Borrow pit DR8646/BP03 is located within a few hundred metres of the formally proclaimed and protected landscape of Ongeluksnek Nature Reserve. The borrow pit is clearly visible from the reserve entrance and from certain accommodation facilities. The reserve has high heritage significance at local, regional and provincial levels for its aesthetic, scientific and social (including economic) values.

- Graves and burial grounds

Ancestral graves occur immediately adjacent to the following borrow pits:

DR8015/BP05 A group of more than 16 stone-packed graves and one grave with a

granite headstone is located within 30 metres of the existing southern

borrow pit face.

DR8015/BP06 Various family graves are located within a fenced homestead precinct

within 5 metres of the existing southern/south-western borrow pit face.

DR8015/BP18 At least three stone-packed graves are located across the road from and

directly opposite the borrow pit.

All human remains have high heritage significance at all levels for their spiritual, social and cultural values.

Assessment of impacts

Landscapes and natural features

The impact of the exploitation of DR8646/BP03 on the protected landscape of Ongeluksnek Nature Reserve can be considered of medium consequence and high probability, with MEDIUM significance overall.

- Graves and burial grounds

None of the graves near DR8015/BP05 and DR8015/BP06 will be affected directly by borrow pit extensions or rehabilitation. Accordingly, the impact on these graves is LOW. However, it is very likely that the graves near DR8015/BP018 will be altered or destroyed inadvertently by construction activities, since they are not easily noticeable and no next-of-kin reside nearby. Accordingly, the impact on these graves could be HIGH.

Recommended mitigation measures

Landscapes and natural features

Borrow pit DR8646/BP03 should be decommissioned permanently and rehabilitated as soon as possible according to approved environmental standards.

Graves and burial grounds

DR8015/BP05 The existing borrow pit face may extend no further southwards in the

direction of the homestead and graves.

DR8015/BP06 The existing borrow pit face adjacent to the homestead may not be

extended further and must be stabilized urgently to prevent further erosion and undermining of the graves located within the homestead

precinct.

DR8015/BP18 The area between the coordinates

S30 30 58.3; E28 40 35.3 S30 30 57.4; E28 40 35.4 S30 30 57.1; E28 40 35.1 S30 30 58.1; E28 40 34.8

should be fenced permanently in the following manner:

• Preferred fencing materials are metal corner and straining posts and fencing wire, to a minimum height of 1.2 metres.

o The fence must have an access gate.

- No construction may occur within a minimum distance of 10-15 metres from the edge of the fence.
- The developer must obtain a permit from SAHRA to undertake fencing prior to the start of any construction activities. The permit application should include clear photographs of the grave location relative to the proposed development, as well as a letter from the next-of-kin endorsing the fencing.
- The developer must submit a report to SAHRA upon the completion of the fencing, including clear descriptions and photographs of the work undertaken.
- If these management measures are not attainable due to development constraints or due to dissatisfaction on the part of the next-of-kin, a SAHRA staff member or appropriately qualified heritage practitioner should be appointed to negotiate alternatives.

Recommended monitoring

A SAHRA staff member or appropriately qualified heritage practitioner should be appointed to ensure that all mitigation measures are implemented appropriately.

Conclusion

We recommend that the development proceed with the proposed heritage mitigation and have submitted this report to SAHRA in fulfilment of the requirements of the National Heritage Resources Act. Relevant staff members may be contacted at the SAHRA Cape Town head office (Mariagrazia Galimberti telephone 021 462 4502; MGALIMBERTI@sahra.org.za).

If permission is granted for development to proceed, the client is reminded that the Act requires that a developer cease all work immediately and follow the protocol contained in Section 9 of this report should any heritage resources, as defined in the Act, be discovered during the course of development activities.

Contents

				Page
1.	Introdu	uctio	on	6
2.	Terms	of r	reference	6
3.	Project	t de	scription	7
4.	Receiv	ing	environment	7
			ect location	7
	4.2 E	nvir	onmental description	8
5.	Cultura	al co	ontext of the study area	9
	Observ			9
	6.1 D	escr	iption and significance assessment	10
	6.2 As	sses	sment of impacts	11
7.	Recom	mei	nded mitigation measures	11
			nded monitoring	12
9.	Protoc	ol fo	or the identification, protection and recovery of	
	heritag	je re	esources during construction and operation	13
10	. Summ	ary	of findings in terms of the National Heritage Resources	
	Act 19	99 9	Section 38(3)	14
11	Conclu	sior	1	15
12	Biblio	grap	phy	16
Δn	pendix .	Δ	Statutory requirements	17
	pendix		Archaeological and historical context of the study area	22
	pendix :		Ongeluksnek Nature Reserve	27
	pendix		Methodology	31
	pendix		Photographs	36
	pendix		Specialist competency and Declaration of independence	39
Lis	t of tal	bles		
	ole 1 ole 2		ations of borrow pits in Alfred Nzo Municipality, Eastern Cape Province. Dical heritage resources and mitigation measures associated	7
			h the project area.	7
Tal	ole 3	Hei	ritage resources and observations: Alfred Nzo Municipality	9

1. Introduction

eThembeni Cultural Heritage was appointed by Terratest (Pty) Ltd to undertake a heritage impact assessment of various borrow pits in the Eastern Cape Province, in terms of the National Environmental Management Act 107 of 1998 as amended, in compliance with Section 38 of the National Heritage Resources Act 25 of 1999 (refer to Appendix A).

South Africa's heritage resources are both rich and widely diverse, encompassing sites from all periods of human history. Resources may be tangible, such as buildings and archaeological artefacts, or intangible, such as landscapes and living heritage. Their significance is based upon their aesthetic, architectural, historical, scientific, social, spiritual, linguistic, economic or technological values; their representivity of a particular time period; their rarity; and their sphere of influence.

The integrity and significance of heritage resources can be jeopardized by natural (e.g. erosion) and human (e.g. development) activities. In the case of human activities, a range of legislation exists to ensure the timeous identification and effective management of heritage resources for present and future generations.

This report represents compliance with a full Heritage Impact Assessment, excluding a specialist palaeontological study, for the proposed development.

2. Terms of reference

A Heritage Impact Assessment must address the following key aspects:

- the identification and mapping of all heritage resources in the area affected;
- an assessment of the significance of such resources in terms of heritage assessment criteria set out in regulations;
- an assessment of the impact of the development on heritage resources;
- an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development;
- the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources;
- if heritage resources will be adversely affected by the proposed development, the consideration of alternatives; and
- plans for mitigation of any adverse effects during and after completion of the proposed development.

3. Project description

The Eastern Cape Department of Roads and Public Works wishes to assess and utilise and/or rehabilitate various existing borrow pits in the Alfred Nzo District Municipality in the vicinity of the towns of Matatiele, Mt Ayliff and Mt Fletcher.

4. Receiving environment

4.1 Project location

The borrow pit locations are summarized in Table 1. Available maps are too large to reproduce in this report and SAHRA is referred to the digitized information submitted by the client.

Table 1 Locations of borrow pits in Alfred Nzo Municipality, Eastern Cape Province.

Road No	BP No	Coordinates
D611/D629	BP01A	S30° 26' 53.0" E29° 10' 43.5"
	BP01B	S30° 26' 56.3" E29° 10' 47.3"
nt andario cha casa stranscentive	BP03	S30° 30' 10.6" E29° 10' 39.0"
D660	BP01	S30° 23' 38.3" E29° 07' 27.6"
	BP02	S30° 23' 26.4" E29° 07' 31.2"
	BP03	S30° 18' 32.5" E29° 10' 30.9"
D639	BP03	S30° 23' 37.4" E28° 52' 19.6"
DR08015	BP01	S30° 53' 43.1" E28° 59' 00.5"
	BP03	S30° 44' 31.9" E28° 51' 09.4"
	BP04	S30° 43' 49.5" E28° 51' 12.0"
	BP05	S30° 42' 34.3" E28° 51' 11.3"
	BP06	S30° 42' 04.1" E28° 51' 47.1"
F	BP07	S30° 41' 00.4" E28° 51' 59.8"
	BP08	S30° 40' 50.4" E28° 51' 41.6"
	BP09	S30° 38' 36.0" E28° 51' 19.4"
	BP10	S30° 31' 51,1" E30° 50' 18.8"
	BP11	S30° 36' 59.0" E28° 48' 56.9"
	BP13	S30° 34' 07.1" E28° 44' 27.6"
	BP14	S30° 34' 07.1" E28° 44' 27.6"
	BP15	S30° 33' 29.9" E28° 43' 37.1"
	BP16	S30° 33' 08.3" E28° 42' 51.8"
	BP17	S30° 32' 12.2" E28° 42' 23.4"
	BP18	S30° 30' 58.7" E28° 40' 35.5"
DR08016	BP01	S30° 39' 41.1" E28° 53' 38.9"
	BP03A	S30° 39' 10.8" E28° 54' 23.2"
	BP03B	S30° 39' 10.2" E28° 54' 26.7"
	BP04	S30° 36' 52.9" E28° 55' 22,3"
	BP05	S30° 35' 25.1" E28° 53' 45.2"
	BP06	S30° 34' 31.2" E28° 52' 27.8"
DR08017	BP02	S30° 47' 58.4" E28° 58' 58.9"
	BP03	S30° 42' 06.8" E29° 02' 23.7"
	BP04	S30° 38′ 56.1″ E29° 02′ 23.0″
	BP05	S30° 38' 03.2" E29° 03' 10.4"
	BP06	S30° 32' 40.8" E29° 04' 16.9"
	BP07	S30° 32' 00.3" E29° 04' 02.4"
DR08077	BP01	S30° 23' 51.0" E28° 30' 55.9"
	BP02	S30° 24' 50.1" E28° 35' 58.6"
	BP03	S30° 25' 10.2" E28° 35' 41.6"
DR08079	BP01	S30° 40' 19.2" E28° 46' 08.8"

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BP07 S30° 15' 13.2" E29° 00' 52.4"		BP05	S30° 16' 23.7" E29° 00' 06.2"
		BP06	S30° 15' 56.7" E29° 00' 30.7"
BP08 S30° 15' 16.8" E29° 01' 03.7"		BP07	S30° 15' 13.2" E29° 00' 52.4"
		BP08	S30° 15' 16.8" E29° 01' 03.7"

4.2 Environmental description

Most of the areas in which the borrow pits occur comprise communally owned land with human settlement in small villages surrounded by extensive rangelands. Services are basic and roads are generally poorly maintained gravel surfaces. Around the towns of Matatiele and Cedarville land use comprises extensive commercial agriculture.

5. Cultural context of the study area

Appendix B summarises the archaeological and historical context of the study area and readers are referred to the bibliography section for primary sources. Heritage resources in such areas of the Eastern Cape that could require the modification and/or relocation of a proposed development project and/or significant mitigation procedures are listed in the following table. The client is advised that subsurface remains of heritage resources might be uncovered during the construction phase of the proposed project, and is referred to the protocol contained in Section 9 below.

Table 2 Typical heritage resources and mitigation measures associated with the project area.

Heritage resource	Typical mitigation measures
Open air scatters of Stone Age stone artefacts and Iron Age archaeological sites with ceramic sherds, probably	Test excavations to determine site extent and
with low heritage significance, could occur in areas with	significance. If necessary, full systematic archaeological excavations requiring permit from heritage authority and
minimal environmental disturbance.	significant financial expenditure.
Ancestral graves, typically located within homestead precincts. Often associated with abandoned homesteads; may be difficult to identify if unmarked.	All human remains have high heritage significance and conservation in situ is always preferred. Exhumation and reburial require procedures described in Appendix A and
	are costly and time-consuming.

6. Observations

Various borrow pits are being utilised at present. The following table summarises the heritage resources assessed, and our observations.

Table 3 Heritage resources and observations: Alfred Nzo Municipality borrow pits, Eastern Cape Province.

Heritage resource type	Observation		
Living heritage	Much of the project area is one of living heritage, but no specific places associated with living heritage were identified.		
Ecofacts	None were identified within the proposed development area.		
Places, buildings, structures and equipment	None were identified within the proposed development area.		
Places to which oral traditions are attached or which are associated with living heritage	The entire proposed area is one of living heritage, but no specific places associated with living heritage were identified.		
Historical settlements and townscapes	None were identified within the proposed development area.		
Landscapes and natural features	See below.		
Geological sites of scientific or cultural importance	None were identified within the proposed development area.		
Archaeological sites	None were identified within the proposed development area.		
Graves and burial grounds	See below.		
Movable objects excluding any object made by a living person	None were identified within the proposed development area.		
Public monuments and memorials	None were identified within the proposed development area.		
Battlefields	None were identified within the proposed development area.		
Traditional building techniques	None were identified within the proposed development area.		

6.1 Description and significance assessment

Landscapes and natural features

Borrow pit DR8646/BP03 is located within a few hundred metres of the formally proclaimed and protected landscape of Ongeluksnek Nature Reserve. It is clearly visible from the reserve entrance and from certain accommodation facilities. The degree of government investment in this protected area and the nature of such investment (see Appendix C) suggests that Ongeluksnek Nature Reserve has high heritage significance at local, regional and provincial levels for its aesthetic, scientific and social (including economic) values.

Graves and burial grounds

Ancestral graves occur immediately adjacent to the following borrow pits:

DR8015/BP05

A group of more than 16 stone-packed graves and one grave with a granite headstone is located within 30 metres of the existing southern borrow pit face, at S30 42 36.0; E28 51 08.5. An occupied homestead is nearby but the graves are not enclosed within the homestead precinct. No-one was home at the time of our visit therefore the family names and ages of most of the burials are unknown. The headstone is inscribed:

MGWATYU
In loving memory of
Our father and grandfather
MZOMKHULU
SKEYI
*26-01-1926
†21-01-2000
PHUMLA NGOXOLO
TSHEZI

DR8015/BP06

Various family graves are located within a fenced homestead precinct within 5 metres of the existing southern/south-western borrow pit face.

DR8015/BP18

At least three stone-packed graves are located across the road from and directly opposite the borrow pit, within the coordinates given in Section 7 below. The closest grave is situated 7 metres from the road edge. No homesteads are located nearby.

All human remains have high heritage significance at all levels for their spiritual, social and cultural values.

6.2 Assessment of impacts

Landscapes and natural features

The impact of the exploitation of DR8646/BP03 on the protected landscape of Ongeluksnek Nature Reserve would be:

- Of a negative nature (the visual intrusion of a quarry in an otherwise tranquil, rural landscape, with concomitant dust, noise and increased traffic in the form of heavy plant and trucks);
- Local in extent (limited to the site and its immediate surroundings, including the surrounding towns and settlements within a 10 km radius);
- Of low duration (presumably exploitation for current road upgrades may be expected to cease after four years); and
- o Of medium intensity, measurably reducing its significance and economic value (associated with tourism) in the short to medium term such that considerable marketing efforts will be required to re-establish its desirability as a tourist destination.

These impacts can therefore be considered of medium consequence and high probability, with MEDIUM significance overall.

Graves and burial grounds

None of the graves near DR8015/BP05 and DR8015/BP06 will be affected directly by borrow pit extensions or rehabilitation. Accordingly, the impact on these graves is LOW.

However, it is very likely that the graves near DR8015/BP018 will be altered or destroyed inadvertently by construction activities, since they are not easily noticeable and no next-of-kin reside nearby. Accordingly, the impact on these graves could be HIGH.

7. Recommended mitigation measures

The purpose of mitigation measures is to reduce impacts on heritage resources to such an extent that their significance is retained at acceptable levels to the communities' concerned. All mitigation measures are for the cost of the developer in terms of extant heritage legislation.

Landscapes and natural features

Borrow pit DR8646/BP03 should be decommissioned permanently and rehabilitated as soon as possible according to approved environmental standards.

- Graves and burial grounds

DR8015/BP05 The existing borrow pit face may extend no further southwards in the

direction of the homestead and graves.

DR8015/BP06 The existing borrow pit face adjacent to the homestead may not be

extended further and must be stabilized urgently to prevent further erosion and undermining of the graves located within the homestead

precinct.

DR8015/BP18 The area between the coordinates

\$30 30 58.3; E28 40 35.3 \$30 30 57.4; E28 40 35.4 \$30 30 57.1; E28 40 35.1 \$30 30 58.1; E28 40 34.8

should be fenced permanently in the following manner:

 Preferred fencing materials are metal corner and straining posts and fencing wire, to a minimum height of 1.2 metres.

- The fence must have an access gate.
- No construction may occur within a minimum distance of 10-15 metres from the edge of the fence.
- The developer must obtain a permit from SAHRA to undertake fencing prior to the start of any construction activities. The permit application should include clear photographs of the grave location relative to the proposed development, as well as a letter from the next-of-kin endorsing the fencing.
- The developer must submit a report to SAHRA upon the completion of the fencing, including clear descriptions and photographs of the work undertaken.
- If these management measures are not attainable due to development constraints or due to dissatisfaction on the part of the next-of-kin, a SAHRA staff member or appropriately qualified heritage practitioner should be appointed to negotiate alternatives.

8. Recommended monitoring

A SAHRA staff member or appropriately qualified heritage practitioner should be appointed to ensure that all mitigation measures are implemented appropriately.

9. Protocol for the identification, protection and recovery of heritage resources during construction and operation

It is possible that sub-surface heritage resources will be encountered during the construction phase of this project. The Project Engineer, Environmental Control Officer and all other persons responsible for site management and excavation should be aware that indicators of sub-surface sites could include:

- Ash deposits (unnaturally grey appearance of soil compared to the surrounding substrate);
- Bone concentrations, either animal or human;
- Ceramic fragments, including potsherds;
- Stone concentrations that appear to be formally arranged (may indicate the presence of an underlying burial); and
- Fossilised remains of fauna and flora, including trees.

In the event that such indicator(s) of heritage resources are identified, the following actions should be taken immediately:

- All construction within a radius of at least 20m of the indicator should cease. This distance should be increased at the discretion of supervisory staff if heavy machinery or explosives could cause further disturbance to the suspected heritage resource.
- This area must be marked using clearly visible means, such as barrier tape, and all personnel should be informed that it is a no-go area.
- A guard should be appointed to enforce this no-go area if there is any possibility that it could be violated, whether intentionally or inadvertently, by construction staff or members of the public.
- No measures should be taken to cover up the suspected heritage resource with soil, or to collect any remains such as bone or stone.
- If a heritage practitioner has been appointed to monitor the project, s/he should be contacted and a site inspection arranged as soon as possible.
- If no heritage practitioner has been appointed to monitor the project, Dr Mariagrazia Galimberti at SAHRA's Cape Town head office should be contacted (telephone 021 462 4502).
- The South African Police Services should be notified by a SAHRA staff member or an independent heritage practitioner if human remains are identified. No SAPS official may disturb or exhume such remains, whether of recent origin or not.
- All parties concerned should respect the potentially sensitive and confidential nature of the heritage resources, particularly human remains, and refrain from making public statements until a mutually agreed time.
- Any extension of the project beyond its current footprint involving vegetation and/or earth clearance should be subject to prior assessment by a qualified heritage practitioner, taking into account all information gathered during this initial heritage impact assessment.

10. Summary of findings in terms of the National Heritage Resources Act 1999 Section 38(3)

- The identification and mapping of all heritage resources in the area affected
 See Section 6.1.
- An assessment of the significance of such resources in terms of the heritage assessment criteria set out in regulations
 See Section 6.1.
- An assessment of the impact of development on such heritage resources
 See Section 6.2.
- An evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development
 The proposed development cannot be considered sustainable unless the mitigation measures proposed in Section 7 are implemented.
- The results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources
 The client has undertaken such consultation in terms of statutory requirements and retains the relevant documentation.
- If heritage resources will be adversely affected by the proposed development, the consideration of alternatives
 See Section 7.
- Plans for mitigation of any adverse effects during and after completion of the proposed development
 See Section 8.

11. Conclusion

We recommend that the development proceed with the proposed heritage mitigation and have submitted this report to SAHRA in fulfilment of the requirements of the National Heritage Resources Act. According to Section 38(4) of the Act the report shall be considered timeously by the Council which shall, after consultation with the person proposing the development, decide –

- whether or not the development may proceed;
- any limitations or conditions are to be applied to the development;
- what general protections in terms of this Act apply, and what formal protections may be applied to such heritage resources;
- whether compensatory action shall be required in respect of any heritage resources damaged or destroyed as a result of the development; and
- whether the appointment of specialists is required as a condition of approval of the proposal.

Relevant staff members may be contacted at the SAHRA Cape Town head office (Mariagrazia Galimberti telephone 021 462 4502; MGALIMBERTI@sahra.org.za).

If permission is granted for development to proceed, the client is reminded that the Act requires that a developer cease all work immediately and follow the protocol contained in Section 9 of this report should any heritage resources, as defined in the Act, be discovered during the course of development activities.

12. Bibliography

Appendix B

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APPENDIX A

STATUTORY REQUIREMENTS

GENERAL

The identification, evaluation and management of heritage resources in South Africa is required and governed by the following legislation:

- National Environmental Management Act (NEMA) 107 of 1998
 - a. Basic Environmental Assessment Section (23)(2)(d)
 - b. Environmental Scoping Report Section (29)(1)(d)
 - c. Environmental Impacts Assessment Section (32)(2)(d)
 - d. Environmental Management Plan Section (34)(b)
- KwaZulu-Natal Heritage Act 4 of 2008
 - a. Protection of heritage resources Chapters 8 and 9
 - b. Heritage Resources Management Chapter 10
- National Heritage Resources Act (NHRA) Act 25 of 1999
 - a. Definition and management of the national estate Chapter I
 - b. Protection and management of heritage resources Chapter II
 - c. Heritage Resources Management Section 38
- Minerals and Petroleum Resources Development Act (MPRDA) Act 28 of 2002
 - a. Section 39(3)
- Development Facilitation Act (DFA) Act 67 of 1995.
 - a. The GNR.1 of 7 January 2000: Regulations and rules in terms of the Development Facilitation Act, 1995 Section 31.

KWAZULU-NATAL HERITAGE ACT 4 OF 2008

This Act is implemented by Amafa aKwaZulu-Natali / Heritage KwaZulu-Natal, a statutory organization charged to provide for the conservation, protection and administration of both the physical and the living or intangible heritage resources of the province; along with a statutory Council to administer heritage conservation in the Province.

NATIONAL HERITAGE RESOURCES ACT 25 OF 1999

Heritage Impact Assessments

Section 38(1) of the National Heritage Resources Act of 1999 requires a heritage impact assessment in case of:

- the construction of a road, wall, power line, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
- the construction of a bridge or similar structure exceeding 50m in length;
- any development or other activity which will change the character of a site—
 - (i) exceeding 5 000m² in extent; or
 - (ii) involving three or more existing erven or subdivisions thereof; or
 - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or

- (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
- the re-zoning of a site exceeding 10 000m² in extent; or
- any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority.

Reports in fulfilment of Section 38(3) of the Act must include the following information:

- the identification and mapping of all heritage resources in the area affected;
- an assessment of the significance of such resources in terms of the heritage assessment criteria set out in regulations;
- an assessment of the impact of the development on such heritage resources;
- an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development;
- the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources;
- if heritage resources will be adversely affected by the proposed development, the consideration of alternatives; and
- plans for mitigation of any adverse effects during and after completion of the proposed development.

Definitions of heritage resources

The Act defines a heritage resource as any place or object of cultural significance i.e. of aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance. This includes, but is not limited to, the following wide range of places and objects:

- living heritage as defined in the National Heritage Council Act No 11 of 1999 (cultural tradition; oral history; performance; ritual; popular memory; skills and techniques; indigenous knowledge systems; and the holistic approach to nature, society and social relationships);
- ecofacts (non-artefactual organic or environmental remains that may reveal aspects of past human activity; definition used in KwaZulu-Natal Heritage Act 2008);
- places, buildings, structures and equipment;
- places to which oral traditions are attached or which are associated with living heritage;
- historical settlements and townscapes;
- landscapes and natural features;
- geological sites of scientific or cultural importance;
- archaeological and palaeontological sites;
- graves and burial grounds;
- public monuments and memorials;
- sites of significance relating to the history of slavery in South Africa;
- movable objects, but excluding any object made by a living person;
- battlefields; and
- traditional building techniques.

Furthermore, a place or object is to be considered part of the national estate if it has cultural significance or other special value because of—

- its importance in the community, or pattern of South Africa's history;
- its possession of uncommon, rare or endangered aspects of South Africa's natural or cultural heritage;
- its potential to yield information that will contribute to an understanding of South Africa's natural or cultural heritage;
- its importance in demonstrating the principal characteristics of a particular class of South Africa's natural or cultural places or objects;
- its importance in exhibiting particular aesthetic characteristics valued by a community or cultural group;
- its importance in demonstrating a high degree of creative or technical achievement at a particular period;
- its strong or special association with a particular community or cultural group for social, cultural or spiritual reasons; and
- its strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.

'Archaeological' means -

- material remains resulting from human activity which are in a state of disuse and are in or on land and are older than 100 years, including artefacts, human and hominid remains and artificial features and structures;
- rock art, being any form of painting, engraving or other graphic representation on a fixed rock surface or loose rock or stone, which was executed by human agency and is older than 100 years including any area within 10 m of such representation;
- wrecks, being any vessel or aircraft, or any part thereof, which was wrecked in South Africa, whether on land, in the internal waters, the territorial waters or in the culture zone of the Republic, as defined respectively in sections 3, 4 and 6 of the Maritime Zones Act, 1994 (Act No. 15 of 1994), and any cargo, debris or artefacts found or associated therewith, which is older than 60 years or which SAHRA considers to be worthy of conservation;
- features, structures and artefacts associated with military history which are older than 75 years and the sites on which they are found.

'Palaeontological' means any fossilised remains or fossil trace of animals or plants which lived in the geological past, other than fossil fuels or fossiliferous rock intended for industrial use, and any site which contains such fossilised remains or trace.

A 'place' is defined as:

- a site, area or region;
- a building or other structure which may include equipment, furniture, fittings and articles associated with or connected with such building or other structure;
- a group of buildings or other structures which may include equipment, furniture, fittings and articles associated with or connected with such group of buildings or other structures;
- an open space, including a public square, street or park; and
- in relation to the management of a place, includes the immediate surroundings of a place.

'Public monuments and memorials' means all monuments and memorials-

- erected on land belonging to any branch of central, provincial or local government, or on land belonging to any organisation funded by or established in terms of the legislation of such a branch of government; or
- which were paid for by public subscription, government funds, or a public-spirited or military organisation, and are on land belonging to any private individual;

'Structures' means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith.

MANAGEMENT OF GRAVES AND BURIAL GROUNDS

Graves younger than 60 years are protected in terms of Section 2(1) of the Removal of Graves and Dead Bodies Ordinance 7 of 1925 as well as the Human Tissues Act 65 of 1983. Such graves are the jurisdiction of the National Department of Health and the relevant Provincial Department of Health and must be submitted for final approval to the Office of the relevant Provincial Premier. This function is usually delegated to the Provincial Member of the Executive Council for Local Government and Planning, or in some cases the MEC for Housing and Welfare.

Authorisation for exhumation and reinterment must also be obtained from the relevant local or regional council where the grave is situated, as well as the relevant local or regional council to where the grave is being relocated. All local and regional provisions, laws and by-laws must also be adhered to. In order to handle and transport human remains the institution conducting the relocation should be authorised under Section 24 of the Human Tissues Act 65 of 1983.

Graves older than 60 years situated outside a formal cemetery administered by a local authority are protected in terms of Section 36 of the National Heritage Resources Act 25 of 1999 as well as the Human Tissues Act of 1983. Accordingly, such graves are the jurisdiction of SAHRA. The procedure for Consultation Regarding Burial Grounds and Graves (Section 36(5) of NHRA) is applicable to graves older than 60 years that are situated outside a formal cemetery administrated by a local authority. Graves in the category located inside a formal cemetery administrated by a local authority will also require the same authorisation as set out for graves younger than 60 years over and above SAHRA authorisation.

If the grave is not situated inside a formal cemetery but is to be relocated to one, permission from the local authority is required and all regulations, laws and by-laws set by the cemetery authority must be adhered to.

The protocol for the management of graves older than 60 years situated outside a formal cemetery administered by a local authority is detailed in Section 36 of the NHRA:

- (3) (a) No person may, without a permit issued by SAHRA or a provincial heritage resources authority—
- (a) destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- (b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- (c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.
- (4) SAHRA or a provincial heritage resources authority may not issue a permit for the destruction or damage of any burial ground or grave referred to in subsection (3)(a) unless it is satisfied that the applicant has made satisfactory arrangements for the exhumation and reinterment of the contents of such graves, at the cost of the applicant and in accordance with any regulations made by the responsible heritage resources authority.
- (5) SAHRA or a provincial heritage resources authority may not issue a permit for any activity under subsection (3)(b) unless it is satisfied that the applicant has, in accordance with regulations made by the responsible heritage resources authority—
- (a) made a concerted effort to contact and consult communities and individuals who by tradition have an interest in such grave or burial ground; and
- (b) reached agreements with such communities and individuals regarding the future of such grave or burial ground.
- (6) Subject to the provision of any other law, any person who in the course of development or any other activity discovers the location of a grave, the existence of which was previously unknown, must immediately cease such activity and report the discovery to the responsible heritage resources authority which must, in co-operation with the South African Police Service and in accordance with regulations of the responsible heritage resources authority—
- (a) carry out an investigation for the purpose of obtaining information on whether or not such grave is protected in terms of this Act or is of significance to any community; and
- (b) if such grave is protected or is of significance, assist any person who or community which is a direct descendant to make arrangements for the exhumation and re-interment of the contents of such grave or, in the absence of such person or community, make any such arrangements as it deems fit.

APPENDIX B

ARCHAEOLOGICAL AND HISTORICAL CONTEXT OF THE STUDY AREA

The Stone Age¹

No systematic Early and Middle Stone Age research has been undertaken in the proposed development area, hence the general nature of this section. Open air scatters of stone artefacts, probably with low heritage significance, could be expected in areas with minimal environmental disturbance.

South Africa's prehistory has been divided into a series of phases based on broad patterns of technology. The primary distinction is between a reliance on chipped and flaked stone implements (the Stone Age) and the ability to work iron (the Iron Age). Spanning a large proportion of human history, the Stone Age in Southern Africa is further divided into the Early Stone Age, or Paleolithic Period (about 2 500 000–150 000 years ago), the Middle Stone Age, or Mesolithic Period (about 150 000–30 000 years ago), and the Late Stone Age, or Neolithic Period (about 30 000–2 000 years ago). The simple stone tools found with australopithecine fossil bones fall into the earliest part of the Early Stone Age.

The Early Stone Age

Most Early Stone Age sites in South Africa can probably be connected with the hominin species known as *Homo erectus*. Simply modified stones, hand axes, scraping tools, and other bifacial artifacts had a wide variety of purposes, including butchering animal carcasses, scraping hides, and digging for plant foods. Most South African archaeological sites from this period are the remains of open camps, often by the sides of rivers and lakes, although some are rock shelters, such as Montagu Cave in the Cape region.

The Middle Stone Age

The long episode of cultural and physical evolution gave way to a period of more rapid change about 200 000 years ago. Hand axes and large bifacial stone tools were replaced by stone flakes and blades that were fashioned into scrapers, spear points, and parts for hafted, composite implements. This technological stage, now known as the Middle Stone Age, is represented by numerous sites in South Africa.

Open camps and rock overhangs were used for shelter. Day-to-day debris has survived to provide some evidence of early ways of life, although plant foods have rarely been preserved. Middle Stone Age bands hunted medium-sized and large prey, including antelope and zebra, although they tended to avoid the largest and most dangerous animals, such as the elephant and the rhinoceros. They also ate seabirds and marine mammals that could be found along the shore and sometimes collected tortoises and ostrich eggs in large quantities.

¹ http://www.britannica.com; article authored by Colin J. Bundy, Julian R. D. Cobbing, Martin Hall and Leonard Monteath Thompson

The Late Stone Age

Basic toolmaking techniques began to undergo additional change about 40 000 years ago. Small finely worked stone implements known as microliths became more common, while the heavier scrapers and points of the Middle Stone Age appeared less frequently. Archaeologists refer to this technological stage as the Late Stone Age. The numerous collections of stone tools from South African archaeological sites show a great degree of variation through time and across the subcontinent.

The remains of plant foods have been well preserved at such sites as Melkhoutboom Cave, De Hangen, and Diepkloof in the Cape region. Animals were trapped and hunted with spears and arrows on which were mounted well-crafted stone blades. Bands moved with the seasons as they followed game into higher lands in the spring and early summer months, when plant foods could also be found. When available, rock overhangs became shelters; otherwise, windbreaks were built. Shellfish, crayfish, seals, and seabirds were also important sources of food, as were fish caught on lines, with spears, in traps, and possibly with nets.

Dating from this period are numerous engravings on rock surfaces, mostly on the interior plateau, and paintings on the walls of rock shelters in the mountainous regions, such as the Drakensberg and Cederberg ranges. The images were made over a period of at least 25 000 years. Although scholars originally saw the South African rock art as the work of exotic foreigners such as Minoans or Phoenicians or as the product of primitive minds, they now believe that the paintings were closely associated with the work of medicine men, shamans who were involved in the well-being of the band and often worked in a state of trance. Specific representations include depictions of trance dances, metaphors for trance such as death and flight, rainmaking, and control of the movement of antelope herds.

Iron Age²

Archaeological evidence shows that Bantu-speaking agriculturists first settled in southern Africa around AD 300. Bantu-speakers originated in the vicinity of modem Cameroon from where they began to move eastwards and southwards, some time after 400 BC, skirting around the equatorial forest. An extremely rapid spread throughout much of sub-equatorial Africa followed: dating shows that the earliest communities in Tanzania and South Africa are separated in time by only 200 years, despite the 3 000 km distance between the two regions. It seems likely that the speed of the spread was a consequence of agriculturists deliberately seeking iron ore sources and particular combinations of soil and climate suitable for the cultivation of their crops.

The earliest agricultural sites in KwaZulu-Natal date to between AD 400 and 550. All are situated close to sources of iron ore, and within 15 km of the coast. Current evidence suggests it may have been too dry further inland at this time for successful cultivation. From 650 onwards, however, climatic conditions improved and agriculturists expanded into the valleys of KwaZulu-Natal, where they settled close to rivers in savanna or bushveld environments. There is a considerable body of information available about these early agriculturists.

Seed remains show that they cultivated finger millet, bulrush millet, sorghum and probably the African melon. It seems likely that they also planted African groundnuts and cowpeas, though

vv i i i cc i c

² Whitelaw (1997). See also Prins and Granger (1993), Whitelaw (1991, 2009).

direct evidence for these plants is lacking from the earlier periods. Faunal remains indicate that they kept sheep, cattle, goats, chickens and dogs, with cattle and sheep providing most of the meat. Men hunted, perhaps with dogs, but hunted animals made only a limited contribution to the diet in the region.

Metal production was a key activity since it provided the tools of cultivation and hunting. The evidence indicates that people who worked metal lived in almost every village, even those that were considerable distances from ore sources.

Large-scale excavations in recent years have provided data indicating that first-millennium agriculturist society was patrilineal and that men used cattle as bridewealth in exchange for wives. On a political level, society was organised into chiefdoms that, in our region, may have had up to three hierarchical levels. The villages of chiefs tended to be larger than others, with several livestock enclosures, and some were occupied continuously for lengthy periods. Social forces of the time resulted in the concentration of unusual items on these sites. These include artefacts that originated from great distances, ivory items (which as early as AD 700 appear to have been a symbol of chieftainship), and initiation paraphernalia.

This particular way of life came to an end around AD 1000, for reasons that we do not yet fully understand. There was a radical change in the decorative style of agriculturist ceramics at this time, while the preferred village locations of the last four centuries were abandoned in favour of sites along the coastal littoral. In general, sites dating to between 1050 and 1250 are smaller than most earlier agriculturist settlements. It is tempting to see in this change the origin of the Nguni settlement pattern. Indeed, some archaeologists have suggested that the changes were a result of the movement into the region of people who were directly ancestral to the Nguni-speakers of today. Others prefer to see the change as the product of social and cultural restructuring within resident agriculturist communities.

Whatever the case, it seems likely that this new pattern of settlement was in some way influenced by a changing climate, for there is evidence of increasing aridity from about AD 900. A new pattern of economic inter-dependence evolved that is substantially different from that of earlier centuries, and is one that continued into the colonial period nearly 500 years later.

Colonial rule³

By the closing decades of the 18th century, South Africa had fallen into two broad regions: west and east. Colonial settlement dominated the west, including the winter rainfall region around the Cape of Good Hope, the coastal hinterland northward toward the present-day border with Namibia, and the dry lands of the interior. Trekboers took increasingly more land from the Khoekhoe and from remnant hunter-gatherer communities, who were killed, were forced into marginal areas, or became labourers tied to the farms of their new overlords. Indigenous farmers controlled both the coastal and valley lowlands and the Highveld of the interior in the east, where summer rainfall and good grazing made mixed farming economies possible.

³ http://www.britannica.com; article authored by Colin J. Bundy, Julian R. D. Cobbing, Martin Hall and Leonard Monteath Thompson

A large group of British settlers arrived in the eastern Cape in 1820; this, together with a high European birth rate and wasteful land usage, produced an acute land shortage, which was alleviated only when the British acquired more land through massive military intervention against Africans on the eastern frontier. Until the 1840s the British vision of the colony did not include African citizens (referred to pejoratively by the British as "Kaffirs"), so, as Africans lost their land, they were expelled across the Great Fish River, the unilaterally proclaimed eastern border of the colony.

The first step in this process included attacks in 1811–12 by the British army on the Xhosa groups, the Gqunukhwebe and Ndlambe. An attack by the Rharhabe-Xhosa on Graham's Town in 1819 provided the pretext for the annexation of more African territory, to the Keiskamma River. Various Rharhabe-Xhosa groups were driven from their lands throughout the early 1830s. They counterattacked in December 1834, and Governor Benjamin D'Urban ordered a major invasion the following year, during which thousands of Rharhabe-Xhosa died. The British crossed the Great Kei River and ravaged territory of the Gcaleka-Xhosa as well; the Gcaleka chief, Hintsa, invited to hold discussions with British military officials, was held hostage and died trying to escape. The British colonial secretary, Lord Glenelg, who disapproved of D'Urban's policy, halted the seizure of all African land east of the Great Kei. D'Urban's initial attempt to rule conquered Africans with European magistrates and soldiers was overturned by Glenelg; instead, for a time, Africans east of the Keiskamma retained their autonomy and dealt with the colony through diplomatic agents.

However, after further fighting with the Rharhabe-Xhosa on the eastern frontier in 1846, Governor Colonel Harry Smith finally annexed, over the next two years, not only the region between the Great Fish and the Great Kei rivers (establishing British Kaffraria) but also a large area between the Orange and Vaal rivers, thus establishing the Orange River Sovereignty. These moves provoked further warfare in 1851–53 with the Xhosa (joined once more by many Khoe), with a few British politicians ineffectively trying to influence events.

Between 1811 and 1858 colonial aggression deprived Africans of most of their land between the Sundays and Great Kei rivers and produced poverty and despair. From the mid-1850s British magistrates held political power in British Kaffraria, destroying the power of the Xhosa chiefs. Following a severe lung sickness epidemic among their cattle in 1854–56, the Xhosa killed many of their remaining cattle and in 1857–58 grew few crops in response to a millenarian prophecy that this would cause their ancestors to rise from the dead and destroy the whites. Many thousands of Xhosa starved to death, and large numbers of survivors were driven into the Cape Colony to work. British Kaffraria fused with the Cape Colony in 1865, and thousands of Africans newly defined as Fingo resettled east of the Great Kei, thereby creating Fingoland. The Transkei, as this region came to be known, consisted of the hilly country between the Cape and Natal. It became a large African reserve and grew in size when those parts that were still independent were annexed in the 1880s and '90s (Pondoland lost its independence in 1894).

Under apartheid blacks were treated like "tribal" people and were required to live on reserves under hereditary chiefs except when they worked temporarily in white towns or on white farms. The government began to consolidate the scattered reserves into 8 (eventually 10) distinct territories, designating each of them as the "homeland," or Bantustan, of a specific black ethnic community. The government manipulated homeland politics so that compliant chiefs controlled the administrations of most of those territories. Arguing that Bantustans

matched the decolonization process then taking place in tropical Africa, the government devolved powers onto those administrations and eventually encouraged them to become "independent." Between 1976 and 1981 four accepted independence—Transkei, Bophuthatswana, Venda, and Ciskei—though none was ever recognized by a foreign government. Like the other homelands, however, they were economic backwaters, dependent on subsidies from Pretoria.

Conditions in the homelands continued to deteriorate, partly because they had to accommodate vast numbers of people with minimal resources. Many people found their way to the towns; but the government, attempting to reverse this flood, strengthened the pass laws by making it illegal for blacks to be in a town for more than 72 hours at a time without a job in a white home or business. A particularly brutal series of forced removals were conducted from the 1960s to the early '80s, in which more than 3.5 million blacks were taken from towns and white rural areas (including lands they had occupied for generations) and dumped into the reserves, sometimes in the middle of winter and without any facilities.

APPENDIX D

ONGELUKSNEK NATURE RESERVE, EASTERN CAPE PROVINCE

ONGELUKSNEK NATURE RESERVE GENERAL TOURISM PRODUCT INFORMATION⁴ www.ongeluksnek.com

The 13 000 ha reserve is located in the steep mountain grassland of the southern Drakensberg, on the Lesotho border. It was proclaimed as a protected area in 1976, and forms an important part of the upper catchment of the Kinira River, which feeds the greater Umzimvubu basin. The reserve is drained by the perennial Lebelle and Jordan Rivers. Rainfall is in the region of 750mm per annum, and the area has verdant green summers and snowy winters.

TOPOGRAPHY & CLIMATE

The area lies in rugged mountainous terrain, dropping-off steeply from the Maluti/Drakensberg Escarpment. It is mainly underlain by basaltic lavas of the Drakensberg Group of the Karoo Super group. In the eastern lowlands around 1600m, fingers of fine grained sandstones of the Clarens Formation are exposed, along with Quaternary alluvium, Molteno sandstones and mudstones, with Elliot mudstones extending westwards in to the basalt. (Lechmere-Oertel, 2006).

The steep gradients and shallow soils of the Drakensberg result in almost half of the rainfall leaving the area as run-off (MDTP, 2008). If the soils are bound by intact indigenous vegetation, the surface flow is rapidly absorbed, and controlled gradual water yield will be released throughout the year. Under these ideal conditions, high quality sediment-free water will reach streams. This situation is demonstrated by the presence of alpine wetlands in the upper reaches of the reserve, and the high water quality captured in the Lebelle stream weir which supplies the Thaba Chicha bulk regional water supply to villages adjacent to the reserve. Average minimum temperatures in summer range between 6 and 12°C. Daytime summer temperatures range between 20 and 28°C. Winters are cold with night temperatures frequently dropping below OoC and a high frequency of frost nights, with occasional snow and ice creating a challenging climatic environment. Maximum winter temperature rarely goes above 18°C. Annual rainfall is in the region of 750mm, occurring mainly in the summer months, with February rainfall levels reaching 125 mm. Some parts of the escarpment have recorded 1800mm per annum (MDTP, 2006), resulting in extreme run-off events. This indicates high run-off capacity during concentrated periods, resulting in increased erosion and topsoil loss where groundcover is insufficient. Precipitation also occurs in the form of mist and

VEGETATION & FAUNA

The topography reflects the area's position on the escarpment with Lesotho, and is mainly covered by grassland defined in Camp's newer veld classification as *Drakensberg foothills moist sourveld*. The Nature Reserve is mainly composed of impressive rolling valleys and spurs running up to the escarpment. The road corridor climbs from East Griqualand grassland (vegetation type Gs12) dominated by tropical and temperate bunch grasses such as *Themeda*, which have been degraded through livestock pressure to become dominated by wire grasses and scattered Karroid shrubs (MDTP, 2008). At higher altitudes, the grasslands shift to become more alpine in nature, underlain by basalts with less grass cover and greater percentage of shrubby fynbos and karroid species, which have been allowed to increase through decreased grass competition from overgrazing. This has reduced soil cover and allowed an increase in erodibility, resulting in increased run-off and erosivity of rainfall.

A good representation of grassland flowering species occurs in the area, and was documented by studies undertaken by the Maloti Drakensberg Transfrontier project (MDTP) in the early 2000s. Biodiversity is however threatened by the annual veld fires which sweep through the area, despite attempts by the Reserve to establish fire breaks and control wildfires.

eThembeni Cultural Heritage for Terratest (Pty) Ltd

⁴ http://www.dedea.gov.za/Media%20Releases/Ongeluksnek%20Nature%20Reserve%20Fast%20Facts.pdf

The Reserve has a range of raptors and large birds, including the Bearded and Cape Vulture. There is no available bird list for the reserve, but the area provides a habitat for a combination of grassland and alpine species, including Orange throated longclaw, pipits, larks, chats, etc. These seed and insect eaters assist with pollination.

The Reserve has never been stocked with wildlife, but has provided a fairly safe habitat for existing species in the upper catchment, although poaching has been problematic. There is a limited representation of wildlife, however some successful breeding populations include Mountain Reedbuck, Grey Rhebok, duiker, hyrax/dassie, jackals, caracal / rooikat, water and grey mongoose, hares, porcupines, aardvark and baboons have left evidence of their activities. Some good birding opportunities exist – see activities section below.

ACCESS

3 hours from Durban via N2 and R56 to Matatiele. The R56 leading west from Matatiele towards ONR is 12km tar (R56) plus 38km of challenging gravel (DR08646, with signboard to reserve), with fantastic views of the southern berg. Approx 1 hr (Matatiele is the closest town). Road from the Eastern Cape (western) side is via Maclear and Mt Fletcher along the R56, with no signboard for reserve at the gravel road turn-off marked "Farview/Xaxazana". Approx 1hr along gravel to reserve through scenic villages. Approx 5-6 hours from East London. Very scenic drive.

The reserve is bisected by the DR08646, a public gravel road, which leads up the impressive Ongeluksnek Pass between SA and Lesotho. An SA border post is located at the base of the pass (08h00 to 16h00).

The pass has a 1000m rise (equivalent to Table Mountain), and was first driven in an old Land Rover by Matatiele resident Lionel Whittle, via the stock trails in the early 1950s. A simple hand built road was developed as a trading route between Matatiele and Mt Moorosi in the late 1960s by a local trader. The old trading store ruins can still be seen alongside the road half way up the pass on the western side. The road was properly shaped and built in 1991 by the then Transkei Roads Department, and was under renovation in February 2009. The route leads through to Mphaki in southern Lesotho, via the spectacular Lake Letsie wetland area, which is a declared RAMSAR site.

ACCOMMODATION:

GATEWAY LODGE

The sandstone lodge is an old renovated farmhouse, built in the early 1900s, located at the entrance to the reserve. It has 3 rooms, with two doubles, 6 singles, 2 sleeper couches, and can sleep a total of 12. It has solar lighting and plugs, plus gas fridge, stove and geyser. The kitchen is fitted for self-catering quests, and a cook can also be arranged.

The large covered porch with a great view of the mountains is an ideal spot to unwind.

Chopped firewood is supplied for the outside braai area, as well as the lounge's open fireplace. Also has a conference/dining room for mini meetings of up to 20 people, which can be catered for.

Please note septic tank cannot take any foreign matter, so please respect this.

Gas appliances should be used with care, especially the stove.

Solar lighting and plugs – please follow directions on wall-mounted instructions in kitchen and lounge to prolong the life of the system.

Local village shops have basic supplies if required. Catering can be arranged.

RUSHCAMP

The **Tweespruit bushcamp has** 4 shady well grassed campsites located along the Jordan river. Has a covered open plan boma with potable running water, sink, tables, stone benches, overlooking campsite with great view of the mountains. Has gents and ladies ablutions with flush water and hot showers, with a bath for children. Hot water supplied by donkey boiler

The camp is a good base for hiking or mountain biking up into the catchment where high altitude wetlands are found, and for visiting the interesting and ancient volcanic basalt rock formations.

Has 4x4 or hiking, mountain bike or horseback access (from the main gateway lodge where vehicles can be safely left), with 4 vehicle sites next to the Jordan river, and a capacity of 24 (4 parties) people using own tents.

ACTIVITIES

From the lodge or bushcamp, visitors can explore the beautiful sandstone **Mariazell Mission**, built in 1904, either on a day walk or vehicle accessible, with its self-sufficient hydro electrical

system, high school (which Patrick Mosiua Lekota attended) and farm. Guided tours could be arranged via the reserve staff.

Hiking - lots, for beginners to experienced, guided or self-exploratory with a map. Great swimming pools in Jordan river, at waterfall near reserve HQ (short walk from lodge west along road towards pass), old grave sites, ruins, rock art, etc can be visited. Grassland has wonderful flowers in summer. Some indigenous forests in gorges north of HQ, and Lot's Wife pillar (basalt formation) accessed from bushcamp in the Jordan valley. Drive around to Tweespruit bushcamp site, leave a vehicle and hike along old track leading west towards picnic site at Charles Mills – old homestead ruins and fruit trees, graves sites, swimming upstream of site, etc.

Horse riding - horse can be hired, with a guide, from the local Mabenyeng Horse Association. Arrange via reserve manage. Visitors pay horse owners directly in cash.

Rock paintings - guided walks or on horse back.

Mountain biking - the surrounding villages have a myriad of footpaths which make for excellent single track riding. The reserve has good riding up the pass, with some loops and links for the adventurous and technically skilled rider, allowing exploration of the little known southern berg/Lesotho border area, such as Nene's pass.

Mehloding Hiking Trail - based from a community-operated chalet adjacent to the reserve just beyond the mission. Can do day walks or a 4 day uni-directional trail leading east. Also provide traditional and conventional catering by prior arrangement.

4x4 trails up Ongeluksnek pass or along northern bushcamp track along Jordan river to picnic sites. Can drive through border up into Lesotho to the spectacular Lake Letsie wetland area (24km from lodge).

Birding - The reserve and Matatiele access route along the valley have great birdwatching (Blue and Crowned cranes, Southern ground hornbills, Denham's bustard, Cape vulture, Lammergeier, secretary birds - all of which are endangered) plus Lanner Falcons, Marsh Owls etc. Sighting of a European Roller as well - very rare here!

A trained THETA accredited local guide can also be arranged (via reserve manager), who is very knowledgeable of the area, has a driver's license, and is a birding enthusiast. R100 for half day, R200 for full day, payable directly to the guide.

Five trainee guides are also being supported to gain experience.

LESOTHO / TRANSFRONTIER ACCESS

The pass up into Lesotho has been upgraded (leads from lodge through reserve for 16km up to physical border), and is accessible by vehicles with clearance (4x4 pref but only necessary in wet weather).

Need a passport to go through SA border at base of pass. Lesotho border post still being renovated.

The road leads into Lesotho, through to Mphaki village (fuel, food, rustic lodging) or to Mt Moorosi (fuel, food, lodging, basic shops, historical sites, community chalets).

The A1, main road through Lesotho which passes through Mphaki and Mt Moorosi, is tarred, and leads on towards Maseru in a north westerly direction. The roads to these towns are very scenic, through rural landscape.

Could also make a circular route, via Qachas Nek pass to the east or Rhodes area to west. Check out the Maloti Route www.malotiroute.co.za on the web for more transfrontier travel planning info.

Please notify the reserve manager, duty staff or gate keeper regarding any problems or queries.

Please feel welcome to provide any feedback or comments in the visitors book and attached comment sheets, so that we can improve our service and your experience. We trust you will enjoy your stay.

Reserve manager contact: Mr Harold Mdhluli 039 256 4888 / 082 345 3709

EC Parks Central Reservations: 043 701 9600 Friends of Ongeluksnek: Nicky McLeod 082 782 6067

DEDEA spends R2, 25M in Ongeluksnek Nature Reserve⁵

9/29/2010

DEDEA Media Release

The Department of Economic Development and Environmental Affairs (DEDEA) has been spent about R2, 25 million to renovate the Ongeluksnek Nature Reserve at Matatiele in Alfred Nzo District Municipality (ADM).

The success of this nature reserve, which is a catalyst for economic development, poverty alleviation and employment creation in the region, has been realised through involvement of the community in the management of parks. The community has been instrumental in the functionality of the reserve through providing horses for guiding, fresh produce supply, and infrastructure and trail maintenance.

The MEC for Finance, Economic Development and Environmental Affairs Mr Mcebisi Jonas visited the Ongeluksnek community as part of the Eastern Cape Executive Council Outreach Programme in the ADM. Addressing the community, MEC Jonas commended the way the community has been proactive in preserving the nature reserve through working with the department.

"The project is very exciting as it brings new perspective whilst setting an encouraging precedence in the overall environmental management of the parks. In most instances the functionality of the nature reserve relies heavily on the external parties rather than the community itself. So we are encouraged by these new and positive developments. This work vindicates the view we have had that key to bringing solutions to the problems facing the parks and the surrounding communities is in the integration of communities in the activities of the nature reserves. Linked to this is the need of identifying other areas of involvement other than the all important economic development, these include areas like the existing culture of surrounding villages, the indigenous knowledge which will contribute in improving lives overall beneficiation by the communities", says Jonas.

Among the key deliverables of the project include the:

- Fencing of 4km to enclose the reserve entrance;
- Renovation of unused sandstone homestead ruins, to provide offices, ablutions, parking, water supply, gatehouse and a controlled entrance to the protected area via a stock grid;
- Renovation of a 3 bedroom self catering guest lodge, with solar lighting, gas supply for geyser and kitchen (fridge and stove), bedding, fully equipped kitchen, fireplace and veranda;
- Construction of a bushcamp in the Jordan valley with covered boma, water supply, comfortable ablutions, hot showers and shaded campsites;
- New reserve entrance gate above Motseng village, providing access to the northern portion of the reserve and controlled access to the bushcamp;
- Trail development, mapping and clearing of over 8km, with signage and markers;
- A website and marketing collateral for marketing;
- Training of over 100 workers and local people in basic Occupational Health and Safety,
 HIV awareness, , hospitality, hands-on construction skills, horse care, financial literacy,
 fire fighting, environmental awareness, guiding and tourism basics;
- Rehabilitation of 5km of access road and rebuilding of an extensive stream crossing / bridge to allow access to the bushcamp area for tourists and reserve management.

The Nature Reserve is managed by the Eastern Cape Parks and Tourism Agency – a DEDEA public entity mandated to manage all provincial protected areas and destination marketing with the objective of promoting and developing the tourism industry.

⁵ http://www.dedea.gov.za/News/Pages/DEDEAspendsOngeluksnek.aspx

APPENDIX D

METHODOLOGY

Site survey

eThembeni staff members inspected the area from 23 to 26 May 2011. We completed controlled-exclusive surface surveys, where 'sufficient information exists on an area to make solid and defensible assumptions and judgements about where [heritage resource] sites may and may not be' and 'an inspection of the surface of the ground, wherever this surface is visible, is made, with no substantial attempt to clear brush, turf, deadfall, leaves or other material that may cover the surface and with no attempt to look beneath the surface beyond the inspection of rodent burrows, cut banks and other exposures that are observed by accident' (King 1978; see bibliography for other references informing methodological approach).

The site surveys comprised non-systematic or random walks around the existing borrow pits in an area extending approximately 100 metres from the points listed in Table 1. 67 of the 69 borrow pits were inspected; the exceptions were DR8015/BP10 and DR8017/BP02, which could not be accessed due to time constraints. Staff members examined these borrow pits using Google Earth imagery and are confident that the presence of heritage resources in their vicinity is very unlikely. Geographic coordinates were obtained using a handheld Garmin global positioning unit (WPG 84). Photographs were taken with a Nikon Coolpix camera and a representative selection is included in Appendix E.

Database and literature review

No databases were consulted due to the limited footprints of the proposed development areas, and the fact that physical examination of entire footprints was possible. A concise account of the pre and postcolonial history of the broader study area was compiled from sources including those listed in the bibliography and is included as Appendix B. Appendix C contains documents attesting to the significance of Ongeluksnek Nature Reserve.

Assessment of heritage resource value and significance

Heritage resources are significant only to the extent that they have public value, as implicitly demonstrated by the following guidelines for determining site significance developed by the South African Heritage Resources Agency and utilised during this assessment.

Type of Significance

- 1. Historical Value: It is important in the community, or pattern of history
- Importance in the evolution of cultural landscapes and settlement patterns.
- Importance in exhibiting density, richness or diversity of cultural features illustrating the human occupation and evolution of the nation, Province, region or locality.
- Importance for association with events, developments or cultural phases that have had a significant role in the human occupation and evolution of the nation, Province, region or community.
- Importance as an example for technical, creative, design or artistic excellence, innovation or achievement in a particular period
- It has strong or special association with the life or work of a person, group or organisation of importance in history

- Importance for close associations with individuals, groups or organisations whose life, works or activities have been significant within the history of the nation, Province, region or community.
- Importance for a direct link to the history of slavery in South Africa.
- 2. Aesthetic Value: It is important in exhibiting particular aesthetic characteristics valued by a community or cultural group
- Importance to a community for aesthetic characteristics held in high esteem or otherwise valued by the community.
- Importance for its creative, design or artistic excellence, innovation or achievement.
- Importance for its contribution to the aesthetic values of the setting demonstrated by a landmark quality or having impact on important vistas or otherwise contributing to the identified aesthetic qualities of the cultural environs or the natural landscape within which it is located.
- In the case of an historic precinct, importance for the aesthetic character created by the individual components which collectively form a significant streetscape, townscape or cultural environment.
- 3. Scientific Value: It has potential to yield information that will contribute to an understanding of natural or cultural heritage
- Importance for information contributing to a wider understanding of natural or cultural history by virtue of its use as a research site, teaching site, type locality, reference or benchmark site.
- Importance for information contributing to a wider understanding of the origin of the universe or of the development of the earth.
- Importance for information contributing to a wider understanding of the origin of life; the development of plant or animal species, or the biological or cultural development of hominid or human species.
- Importance for its potential to yield information contributing to a wider understanding of the history of human occupation of the nation, Province, region or locality.
- It is important in demonstrating a high degree of creative or technical achievement at a particular period.
- Importance for its technical innovation or achievement.
- 4. Social Value: It has strong or special association with a particular community or cultural group for social, cultural or spiritual reasons
- Importance as a place highly valued by a community or cultural group for reasons of social, cultural, religious, spiritual, symbolic, aesthetic or educational associations.
- Importance in contributing to a community's sense of place.

Degrees of Significance

Rarity: It possesses uncommon, rare or endangered aspects of natural or cultural heritage

Importance for rare, endangered or uncommon structures, landscapes or phenomena.

Representivity: It is important in demonstrating the principal characteristics of a particular class of natural or cultural places or objects

 Importance in demonstrating the principal characteristics of a range of landscapes or environments, the attributes of which identify it as being characteristic of its class. Importance in demonstrating the principal characteristics of human activities (including way of life, philosophy, custom, process, land-use, function, design or technique) in the environment of the nation, Province, region or locality.

Sphere of Significance: High, Medium, Low

International; National; Provincial; Regional; Local

Assessment of impacts

A heritage resource impact may be defined broadly as the net change, either beneficial or adverse, between the integrity of a heritage site with and without the proposed development. Beneficial impacts occur wherever a proposed development actively protects, preserves or enhances a heritage resource, by minimising natural site erosion or facilitating non-destructive public use, for example. More commonly, development impacts are of an adverse nature and can include:

- destruction or alteration of all or part of a heritage site;
- isolation of a site from its natural setting; and / or
- introduction of physical, chemical or visual elements that are out of character with the heritage resource and its setting.

Beneficial and adverse impacts can be direct or indirect, as well as cumulative, as implied by the aforementioned examples. Although indirect impacts may be more difficult to foresee, assess and quantify, they must form part of the assessment process. The following assessment criteria have been used to assess the impacts of the proposed development on identified heritage resources:

Criteria	Rating Scales	Notes
Jacofennenna disson	Positive	An evaluation of the type of effect the construction, operation and
Nature	Negative	management of the proposed development would have on the heritage resource.
	Neutral	
	Low	Site-specific, affects only the development footprint.
Extent	Medium	Local (limited to the site and its immediate surroundings, including the surrounding towns and settlements within a 10 km radius);
	High	Regional (beyond a 10 km radius) to national.
	Low	0-4 years (i.e. duration of construction phase).
Duration	Medium	5-10 years.
	High	More than 10 years to permanent.
	Low	Where the impact affects the heritage resource in such a way that its significance and value are minimally affected.
Intensity	Medium	Where the heritage resource is altered and its significance and value are measurably reduced.
Marvasha and General grander	High	Where the heritage resource is altered or destroyed to the extent that its significance and value cease to exist.
	Low	No irreplaceable resources will be impacted.
Potential for impact on irreplaceable	Medium	Resources that will be impacted can be replaced, with effort.
resources	High	There is no potential for replacing a particular vulnerable resource that will be impacted.

Consequence (a combination of extent, duration,	Low	A combination of any of the following: - Intensity, duration, extent and impact on irreplaceable resources are all rated low. - Intensity is low and up to two of the other criteria are rated medium. - Intensity is medium and all three other criteria are rated low.
intensity and the potential for	Medium	Intensity is medium and at least two of the other criteria are rated medium.
impact on irreplaceable resources).	High	Intensity and impact on irreplaceable resources are rated high, with any combination of extent and duration. Intensity is rated high, with all of the other criteria being rated medium or higher.
	Low	It is highly unlikely or less than 50 % likely that an impact will occur.
Probability (the likelihood of the	Medium	It is between 50 and 70 % certain that the impact will occur.
impact occurring)	Hìgh	It is more than 75 % certain that the impact will occur or it is definite that the impact will occur.
Significance	Low	Low consequence and low probability. Low consequence and medium probability. Low consequence and high probability.
(all impacts including potential cumulative	Medium	Medium consequence and low probability. Medium consequence and medium probability. Medium consequence and high probability. High consequence and low probability.
impacts)	High	High consequence and medium probability. High consequence and high probability.

Assumptions and limitations of this heritage impact assessment

- The description of the proposed project, provided by the client, is accurate.
- The public consultation process undertaken as part of the Environmental Impact
 Assessment is sufficient and adequate and does not require repetition as part of the
 heritage impact assessment.
- Soil surface visibility was moderate to good. Heritage resources might be present below the surface or in areas of dense vegetation and we remind the client that the Act requires that a developer cease all work immediately and follow the protocol stipulated in Section 9 of this report should any heritage resources, as defined in the Act, be discovered during the course of development activities.
- No subsurface investigation (including excavations or sampling) were undertaken, since a permit from SAHRA is required to disturb a heritage resource.
- eThembeni is not able to provide a specialist palaeontological assessment for this project and informed the client as much at the time of quotation.
- A key concept in the management of heritage resources is that of non-renewability: damage to or destruction of most resources, including that caused by bona fide research endeavours, cannot be reversed or undone. Accordingly, management recommendations for heritage resources in the context of development are as conservative as possible.
- Human sciences are necessarily both subjective and objective in nature. eThembeni staff
 members strive to manage heritage resources to the highest standards in accordance with
 national and international best practice, but recognise that their opinions might differ from
 those of other heritage practitioners.

- Staff members involved in this project have no vested interest in it; are qualified to undertake the tasks as described in the terms of reference (refer to Appendix F); and comply at all times with the Codes of Ethics and Conduct of the Association of Southern African Professional Archaeologists.
- eThembeni staff members take no personal or professional responsibility for the misuse of the information contained in this report, although they take all reasonable precautions against such misuse.

APPENDIX E

PHOTOGRAPHS

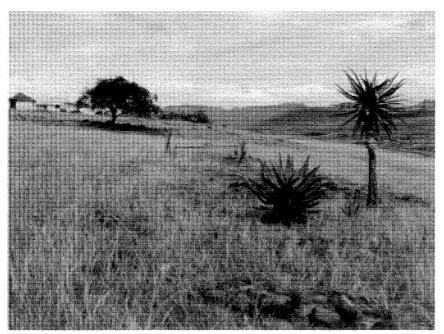


Plate 1 Ancestral graves close to DR8015/BP05.

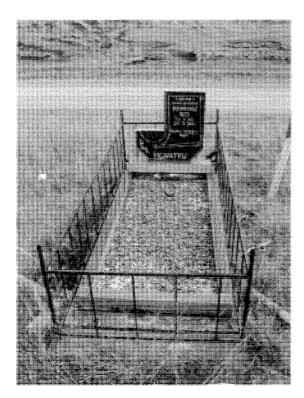


Plate 2 Ancestral grave close to DR8015/BP05.

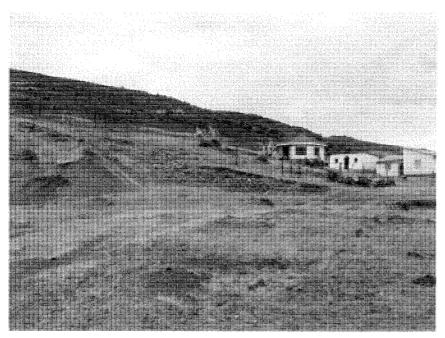


Plate 3 Face of DR8015/BP06 requiring stabilisation to prevent undermining of ancestral graves.

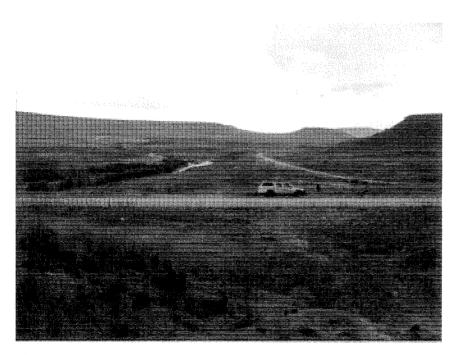


Plate 4 Location of ancestral graves opposite DR8015/BP18 (beyond vehicle across the road).

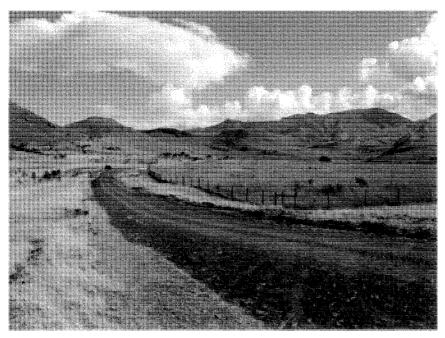


Plate 5 View from DR8646/BP03 towards Ongeluksnek Nature Reserve.



Plate 6 Ongeluksnek Nature Reserve entrance indicated on left, with DR8646/BP03 on right.

APPENDIX F

SPECIALIST COMPETENCY AND DECLARATION OF INDEPENDENCE

Specialist competency

Len van Schalkwyk is accredited by the Cultural Resources Management section of the Association of South African Professional Archaeologists to undertake heritage impact assessments in South Africa. Mr van Schalkwyk has a master's degree in archaeology (specialising in the history of early farmers in southern Africa) from the University of Cape Town and 25 years' experience in heritage management. He has worked on projects as diverse as the establishment of the Ondini Cultural Museum in Ulundi, the cultural management of Chobe National Park in Botswana and various archaeological excavations and oral history recording projects. He was part of the writing team that produced the KwaZulu-Natal Heritage Act 1997. He has worked with many rural communities to establish integrated heritage and land use plans and speaks good Zulu.

Mr van Schalkwyk left his position as assistant director of Amafa aKwaZulu-Natali, the provincial heritage management authority, to start eThembeni in partnership with Beth Wahl, who was head of archaeology at Amafa at the time. Over the past decade they have undertaken almost 1000 heritage impact assessments throughout South Africa, as well as in Mozambique.

Beth Wahl has a BA Honours in African Studies from the University of Cape Town and has completed various Masters courses in Heritage and Tourism at the University of KwaZulu-Natal. She is currently studying for an MPhil in the Conservation of the Built Environment at UCT. She is a member of the Association of Southern African Professional Archaeologists.

Ms Wahl was an excavator and logistical coordinator for Glasgow University Archaeological Research Division's heritage programme at Isandiwana Battlefield; has undertaken numerous rock painting surveys in the uKhahlamba/Drakensberg Mountains, northern KwaZulu-Natal, the Cederberg and the Koue Bokkeveld in the Cape Province; and was the principal excavator of Scorpion Shelter in the Cape Province, and Lenjane and Crystal Shelters in KwaZulu-Natal. Ms Wahl compiled the first cultural landscape management plan for the Mnweni Valley, northern uKhahlamba/Drakensberg, and undertook an assessment of and made recommendations for cultural heritage databases and organisational capacity in parts of Lesotho and South Africa for the Global Environment Facility of the World Bank for the Maloti Drakensberg Transfrontier Conservation and Development Area. She developed the first cultural heritage management plan for the uKhahlamba Drakensberg Park World Heritage Site, following UNESCO recommendations for rock art management in southern Africa.

Declaration of independence

We declare that Len van Schalkwyk, Beth Wahl and eThembeni Cultural Heritage have no financial or personal interest in the proposed development, nor its developers or any of its subsidiaries, apart from in the provision of heritage impact assessment and management consulting services.

APPENDIX D ENVIRONMENTAL AWARENESS PLAN

AWARENESS COURSE

ENVIRONMENTAL

DR08015





WHAT IS THE ENVIRONMENTS

- ŧ a
- 0 0 0 0
- · Sector Sector
- Buildings, cars and houses



ST WE LOOK AFTER THE ENVIRONMENTS

- It affects us all as well. Disciplinary action

- A Contract Tas Deep

(e.g. construction could

stop or fines issued

HOW DO WE LOOK AFTER THE ENVISONMENT.

Report problems to your supervisor/ foreman

E O O

Follow the rules in the EMP





WORKING AREAS

Stay in Side the Site of the S





Do not swim in or drink from

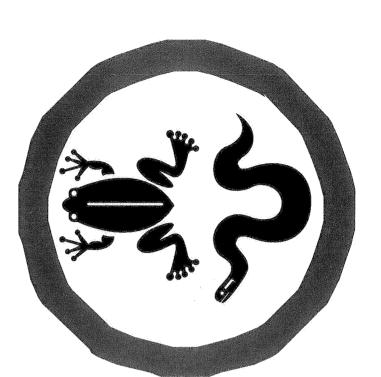
- streams
- Gesel Concrete on Tubbish to other street
- Work in the stream of work in the stream of
- Vegetation of the banks or



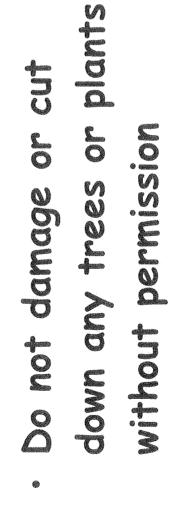


ANIMALS

- and the site of th
- Ask your supervisor or Contract's Manager to remove animals found on site



TREES AND FLOWERS



Do not pick flowers





SMOKING AND FIRE

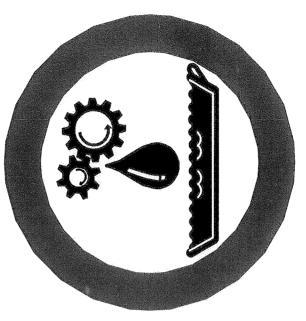
- Do not smoke near gas, paints or petro
- Fre for the positions of the position of the positions of the position of the positions of

- Report of Fres
- Vegetation without or permission



PETROL, OIL AND DIESEL

- Work with petrol of a diese in marked いじゅら
- Seport any Detroi
- Use a drip tray, bunded area or plastic sheeting under vehicles, machinery &
- Empty drip trays after rain & throw away





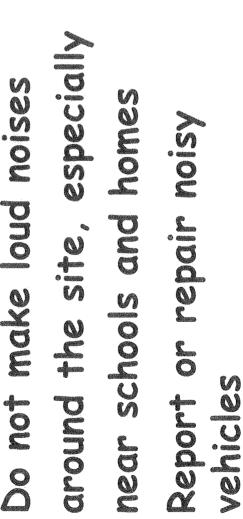
Try to avoid producing dust.
Use water to make ground &





NOTSE

Schools and Toffer Report or repair noisy

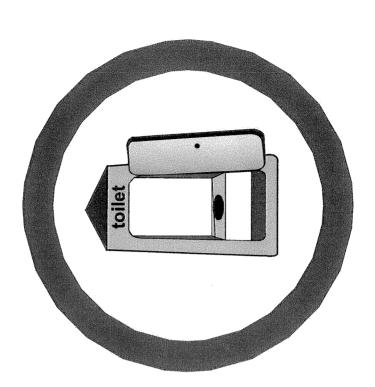






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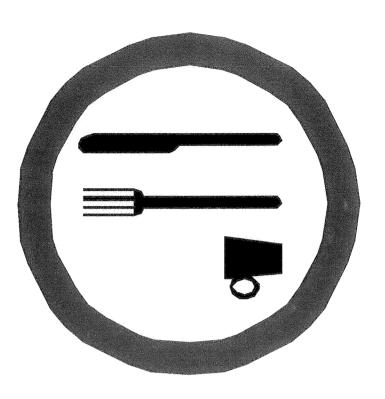






EATING BATING

- on year of the second of the s
- Sever eat sea a series a serie
- Put packaging & left over food into rubbish bins bins





RUBBIST RUBBIST

- To bash to bas
- The Sports of Sp



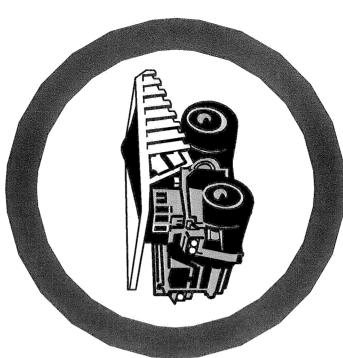


TRUCKS AND DRIVING



Drivers - check & report leaks and vehicles that belch smoke

Ensure odds are secure & 60



EMERGENCY PHONE NUMBERS

To war the emergency of the control of the control

Ambulance: [10111]

Fire: [10111]

Police: 10111

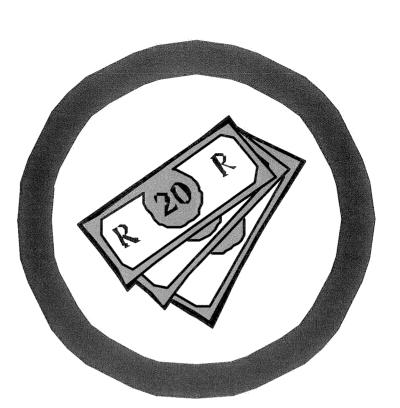
- CMC: 107





FINES AND PENALTES

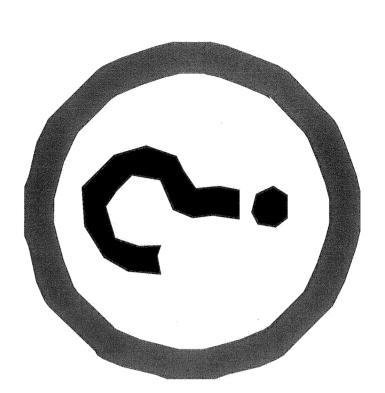
- Spot fines of between R20 and R2000
- Your company may be fined
- Construction may be stopped



SHATTO DO PROBLEMS

Fires, leaks and injuries to your supervisor

ASK GESTONS



APPENDIX E GOOD PRACTICE GUIDE FOR STRIPPING SOILS GOOD PRACTICE GUIDE FOR HANDLING SOILS



GOOD PRACTICE GUIDE FOR HANDLING SOILS

Sheet 13:

Soil Stripping with Bulldozers and Dump Trucks

Issued by the Farming and Rural Conservation Agency, Cambridge

April 2000



MAFF FOREWORD

Standards of restoration of minerals and waste sites have steadily improved in recent years, with operators increasingly aware of their environmental responsibilities. The industry is putting forward more imaginative restoration concepts to a variety of afteruses, and is more aware than ever that it will be judged on the standard of that restoration, and the sustainability of the development.

Sustainable mineral development means balancing economic, environmental and social needs, whilst using resources wisely. The UK Strategy for Sustainable Development recognises the importance of safeguarding agricultural land to meet the needs of future generations, and minimising the loss of soils to new development*.

Improved restoration standards have sometimes enabled planning permission to be given for best and most versatile agricultural land to be worked for minerals, on the basis that it can be restored in a way that safeguards its long-term agricultural potential**. Inherent in these high standards of restoration is the requirement to handle soils in such a way that damage to their structure is minimised. It is the aim of this Guide to provide comprehensive advice on soil handling "Good Practice" to operators, soil moving contractors, consultants and planning authorities.

The Guide is in the form of 15 Sheets giving advice on soil stripping, the forming and taking down of soil storage mounds, and soil replacement operations using excavators, earth scrapers or bulldozers. There are also four Guidance Sheets on remedial works involving the removal of stones and damaging materials, and decompaction during the replacement operations.

This document should be cited as MAFF (2000), Good Practice Guide for Handling Soils (version 04/00). FRCA, Cambridge.

Any views expressed in the guidance are those of the consultant and do not necessarily represent the view of the Ministry of Agriculture, Fisheries and Food.

*(DETR, A Better Quality of Life, May 1999, paragraphs 6.66 and 8.50)

**MPG7 (November 1996, paragraph 3).

Acknowledgements

The Guide was written and prepared by Dr R N Humphries of Humphries Rowell Associates, Charnwood House, Loughborough, LE11 3NP, UK. The art work was by R Shenton of H J Banks & Co.





- the bed/strip system provides a basis to regulate the exposure of lower soil layers to periods of rain and a means of maintaining soil moisture contents. The soil profile within the active strip should be stripped to the basal layer before rainfall occurs and before stripping is suspended.
- measures are required to protect the face of the soil layer from ponding of water and maintain the basal layer in a condition capable of supporting dump trucks.
- the area to be stripped is to be protected from in-flow of water, ponding etc. Wet sites should be drained in advance.
- the maintenance of a transpiring crop is important, and an appropriate cropping regime should be established for the year of soil stripping.
 Before stripping, excess vegetation should be removed; in the case of grassland it should be cut or grazed short and arable crops should have been harvested.

The Stripping Operation

- 13.1 The area to be stripped is to be protected from in-flow of water, ponding etc.

 Wet sites should be drained in advance.
- 13.2 Soil stripping operations should not start until the required soil moisture levels are reached (as determined by the agreed method), and should be suspended as soon as the water content returns to these levels. Prior to work commencing a Meteorological Office forecast should be obtained which gives reasonable confidence of soil stripping proceeding without interruptions from rainfall events. If significant rainfall is forecast or occurs during operations, the stripping must be suspended, and where the soil profile has been disturbed it





should be removed to base level. Stripping must not restart unless the weather is expected to be dry for at least a full day.

- 13.3 All machines must be in a safe and efficient working condition at all times.

 The machines are to only work when ground conditions enable their maximum operating efficiency. The operation is to be suspended before traction becomes a problem or the integrity of the basal layer and haul routes fails.
- 13.4 The operation should follow a detailed stripping plan showing soil units to be stripped, haul routes and the phasing of vehicle movements. The soil units should be defined on the site with information to distinguish types and layers, and ranges of thickness. Detailed daily records should be kept of operations undertaken, and site and soil conditions.
- 13.5 Within each soil unit the soil layers above the base/formation layer are to be stripped in sequential strips with the topsoil layer stripped first, followed by the subsoil layers; each layer stripped to its natural thickness without incorporating material from the lower layer. The next strip should not be started until the current strip is completely stripped to the basal layer. This is often referred to as the 'bed or strip system'. The system involves the progressive sequential stripping of the materials in strips (Figure 13.1). Where there is a gradient to the site, the main axis of the soil strips should be along the main axis of the slope.
- 13.6 The haul routes and storage areas must be defined, and should be stripped first in a similar manner.
- 13.7 The bulldozer is only to stand and work on the soil layer when stripping soils, otherwise it is to travel only on the basal/formation layer. The dump trucks are only to operate on the basal/formation layer. The excavator is only to stand and work on the mounded soil when loading the dump truck, otherwise it is to travel on the basal layer (Figure 13.1).





- 13.8 Demarcate an initial strip width of about 20m and divide the strip into 20m long segments.
- 13.9 The topsoil layer is to be pushed up in the thickest layer possible (eg 150-200mm thick), whilst maintaining operational efficiency of the bulldozer, to form a low mound (1-2m high) along the edge of the exposed soil profile (face). The soil nearest the exposed face should be pushed up first, progressively working to the back of the strip (Figure 13.2). The procedure is repeated in each successive segment until the strip is completed.
- 13.10 Topsoil should be recovered to the full width of the segment without contamination with subsoil (not more than 20% of the lower horizon should be exposed at the layer junction within the strip). This will necessitate some trafficking of the bulldozer on the adjacent strip to be able to mound the entire topsoil within the segment. The thickness and identification of the horizon junction must be verified before and during stripping. The full thickness of the topsoil horizon should normally be stripped progressively along the segments in the active strip before subsoil horizons are started (Figure 13.2). The full topsoil horizon should be stripped along the length of the active strip before the subsoil horizons are started.
- 13.11 The upper subsoil in the current strip is to be stripped and monitored in the same manner. The final 50cm of the subsoil layer should be left as a step to protect the adjacent topsoil horizon from local collapses. The process is to be repeated for the lower subsoil and any other lower layer to be recovered as a soil material (Figure 13.3).
- 13.12 With each successive lower layer taken the bulldozer must only work within the segment and not operate across the boundary of the next strip. This will initially result in a 'stand-off' (shelf) at the back of the strip to accommodate the bulldozer. Before the next layer is stripped, the soil layer in this shelf is to





be mounded at the exposed side of the next segment for loading by the excavator into the trucks (Figure 13.4).

- 13.13 On completion of the strip, the procedures are repeated sequentially for each subsequent strip until the area is completely stripped.
- 13.14 Where the soils are to be directly replaced without storage in mounds, the initial strip of the upper horizons will have to be stored temporarily to release the lowest layer and enable the sequential movement of materials. The stored initial soil material would be placed on the lower layer removed from the final strip at the end of the programme or on partially completed profiles if rain was forecast.
- 13.15 Where the stripping operation is likely to be interrupted by rain or there is likely to be over-night rain remove any exposed subsoil down to the basal layer before suspending operations. Make provisions to protect base of current or next strip from ponding/runoff by sumps and grips, and also clean and level the basal layer. At the start of each day ensure there is no ponding in the current strip or operating areas, and the basal layer is to level with no ruts.



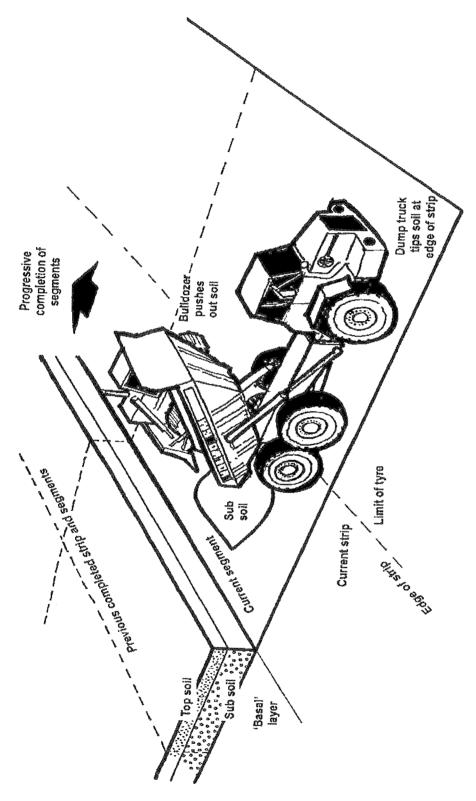
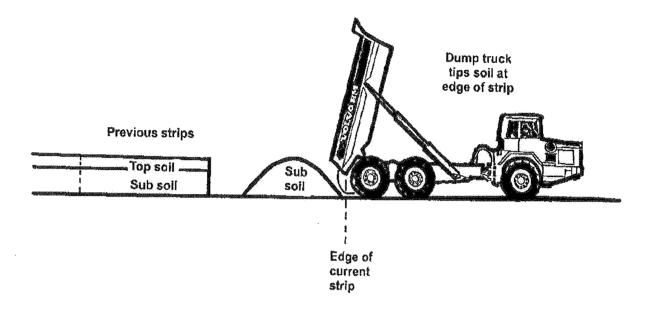


Figure 15.1 Soil replacement by bulldozers and dump trucks:
Sub soil layer

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H R A





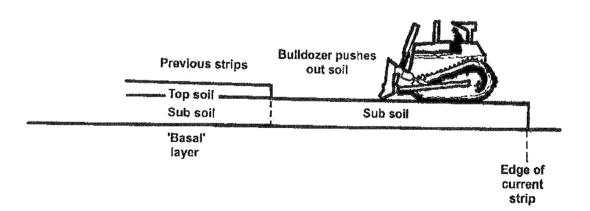
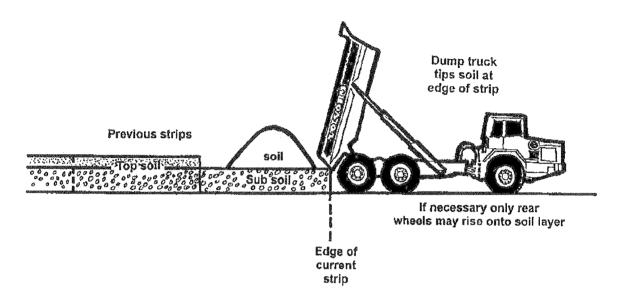


Figure 15.2 Soil replacement by bulldozers and dump trucks:
Sub soil layer







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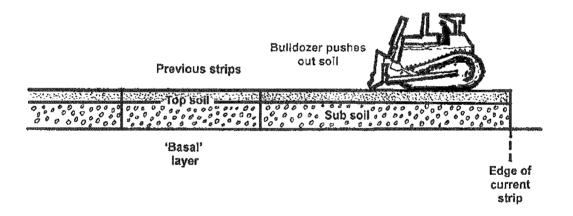


Figure 15.3 Soil replacement by bulldozers and dump trucks:

Top soil layer



End

