

February 2006 CR 836\_10\_v1

# Public Environmental Report

Supplement

Compass Resources NL, Browns Oxide Project





**Compass Resources NL** 

**Browns Oxide Project** 

# Public Environmental Report Supplement



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- 11 Revised Table of Commitments
- 12 Waste Rock Geochemistry
- 13 Browns Oxide Project Tailing Storage Facility Batchelor NT Preliminary Design Report (Revision 1)
- 14 Radiation Monitoring and Management Program
- 15 Batchelor and Rum Jungle Roads. Stuart Highway to Rum Jungle. Stage 5 Safety Audit Report
- 16 Browns Oxide Mine Project. Batchelor/Rum Jungle Road. Traffic Impact and Risk Assessment Report

# 1. Introduction

#### 1.1 General

The Browns Oxide Project Public Environmental Report (PER) was made available for public comment over the period 10 November to 15 December 2005, with the Environment Protection Agency (EPA) agreeing to accept submissions up to 22 December 2005. Advertisements in The Australian, Territory Times and Northern Territory News directed interested parties to copies on display at a range of locations in Darwin and Batchelor, and in the ACT, and to the Department of Natural Resources, Environment and the Arts' (DNRETA's) website where it could be accessed. Copies were distributed to a number of interested parties and were also made available on request (for a modest cost) from Compass' Sydney office.

In accordance with the Northern Territory/Commonwealth Bilateral Agreement, the PER allows assessment of the project under both the Northern Territory's *Environmental Assessment Act* and the Commonwealth's *Environment Protection and Biodiversity Conservation Act (1999)*.

The Northern Territory EPA provided to Compass via email and fax copies of the 24 submissions that they received in response to the call for public comment, including those from various government agencies and the EPA itself. As required by this agreement, Compass has prepared a PER Supplement (this document) that addresses these submissions<sup>1</sup>. The PER Supplement will be posted on NRETA's website and copies will be provided to those parties who made submissions. However, there is no scope for further public submissions. A 28-day period is allowed for EPA to prepare an assessment report and for an assessment decision to be made by the NT Minister for Natural Resources, Environment and Heritage, with a subsequent 30 day review by Commonwealth.

#### **1.2** The Decision-making Process and the PER

The PER and its public review is a major component in the overall process of environmental planning and assessment, and represents the definition of the project to the point where:

- Environmental factors have been identified.
- The project has been planned and conceptually designed to accommodate those factors.

<sup>&</sup>lt;sup>1</sup> A Supplement is normally required under NT legislation only for an EIS, not a PER.

- The residual environmental impacts can be discussed.
- The priorities for management and monitoring can be identified.

In effect, the approach that underpins the PER is that the project is sufficiently well defined to be assessed by stakeholders in terms of key factors, conceptual responses by the proponent and notional impacts. The PER is not intended to describe detailed engineering aspects of the project, nor does it provide detailed management measures.

#### 1.3 Report Structure

Chapter 1 of the PER Supplement (this chapter) provides an introduction to the preparation of the PER Supplement.

Chapter 2 lists the various agencies and individuals who submitted comments on the PER, and also provides a listing of the various issues raised as main headings with associated subheadings. Cross-referencing between the two lists shows which issues were raised in which submissions.

Chapter 3 presents Compass's response to the issues raised in the submissions, and incorporates information that was unavailable at the time of the PER preparation or otherwise provides clarification.

Chapter 4 lists references that have been used in the preparation of this supplement.

The approach adopted for the preparation of this document reflects the fact that a range of issues, comments and questions were common across a number of submissions. Grouping the various issues provides an efficient mechanism by which Compass can respond to the concerns of the various parties. The alternative of responding to each issue separately within the context of each submission would result in a document that would be excessively repetitive and difficult to read.

This PER Supplement contains a number of appendices additional to those appended to the PER, as listed in Table 1.1.

The Supplement should be read in conjunction with the PER Main Report and Appendices.

Торіс	Author	Appendix
Application for Authority Certificate	Compass Resources NL	10
Revised Table of Commitments	Enesar Consulting Pty Ltd	11
Waste rock geochemistry	Environmental Geochemistry International Pty Ltd (EGi)	12
Tailing management	Australian Tailings Consultants (ATC)	13
Radiation	Australian Nuclear Science and Technology Organisation (ANSTO)	14
Traffic safety audit	Sinclair Knight Merz (SKM)	15
Traffic impact and risk assessment	Sinclair Knight Merz (SKM)	16

# 2. Summary of Submissions

Submissions were received from private individuals, non-government organisations (NGOs) and government agencies, as listed in Table 2.1. This table also includes cross-references to the summary of issues presented in Table 2.2, where the individual comments have been categorised into 19 main headings and 150 subheadings (or individual issues).

Submission Number	Name	Affiliation	Region	lssue Summary No. (see Table 2.2)	
1	J. Tutty	Member of Darwin's No Waste Alliance	Noonamah, NT	M3, M1, P3, N9, S27	
2	A. Padovan	Northern Territory Government (NRETA)	Darwin, NT	S6, B3, F15, E17, F5, F11, F13, F16	
3	T. Ward	Northern Territory Government (DHCS)	Darwin, NT	l1, E6, l2, E5, K10, J2, S10, O6, Q4, F2	
4	M. Hawkins	Finniss Valley Tree Supplies	Batchelor, NT	S2, S6	
5	M. J. Starcevich	Finniss Valley Tree Supplies	Batchelor, NT	S28, B2, P2, M2, N9, K11, Q1, Q5, S8, S2	
6		Australian Conservation Foundation	Carlton, Vic	P3, M3, F13, N9, K7, B2, M1, A4, Q1, K11, E17, O2, F8, E7, S6, S16	
7		The Environment Centre N.T. Inc.	Darwin, NT	P3, M3, F13, B2, S6, P2, K4, K11, P6, E4, B3, E17, E2, S28, S16, F10, F7, C2, G3, F8, S27, O6, S3, A1, A4, N8, N9, O4, O3	
8	J. Brown		Batchelor, NT	M3, S6, M4	
9	J. Oakley		Batchelor, NT	P4, M3, N10, N8, N7, E1, S18, Q1, O1, H2, N1, L5, K6, K9, K3, S4, S6, S2, E11, S14, C1, C5, C3, C4, P3, N2, K7, N5, N3, L2, N11, K1	
10	N. Fry	Northern Land Council	Northern Territory	K4, S3, A5, K8, B2, B1, S28, O6, S8, O11, J1, A2, Q2	
11	A. Pedder		Nightcliff, NT	P5, N7, M3, Q1, F13, S6, B2	
12	Strider		Humpty Doo, NT	S18, E10, S3, S21, M3	
13	M. C. Dillon	Northern Territory Government (Dept. Local Government, Housing and Sport)	Darwin, NT	R2	

Table 2.1 Summary of parties making submissions

Submission Number	Name	Affiliation	Region	lssue Summary No. (see Table 2.2)
14	J. Hassed	Northern Territory Government (Dept. Employment, Education and Training)	Darwin, NT	К2
15	B. Wernham	Batchelor Police Station	Winnellie, NT	R6, L4, K11
16	Dr G. M. Mudd	Monash University (Dept. Civil Engineering)	Clayton, Vic	K4, M2, N10, S3, S6, B2, O7, S20, K8, E13, E9, N8, N6, B4, L1, S24, S26, S28, S1, S9, N4
17	K. Wood	Power and Water Corporation	Palmerston, NT	S6, O6, S2, K5
18	A. Malgorzewicz	Museum and Art Gallery NT	Darwin, NT	F12, F1
19	R. Sellers	Northern Territory Government (DPIFM)	Darwin, NT	B1, B3, E17, E18, O12, S16, S2, S19, S3, S12, O13, E2, N9, S9, P1, S8, E15, S11, O2, S15
20A	L. Allen	Northern Territory Government (EPA) - Waste and Pollution Management	Darwin, NT	O11, S23, F4, S16, E8, B1, N8, E18, S13, S17, E3, S26, S27, E12, F14, O8, F3, I3, S22, S5, O10, O9, P1, S8, S7, N4, S19, S25, L4, E16, O5, S3, S11, E14, L3, H1, O6, O4
20B		Northern Territory Government (EPA) - Environment and Greenhouse Policy	Darwin, NT	K5, H3, G3, G1, G2
20C		Northern Territory Government (EPA) - Heritage Conservation Services	Darwin, NT	A3, D1
21	S. Butterworth	Northern Territory Government (Dept. of Planning and Infrastructure)	Darwin, NT	R4, R7, R5, R1, R3
22	J. Bastin	DEH	Canberra, ACT	F6, F9
23	M. Burgess	Northern Territory Government (Dept. of Business, Economic and Regional Development)	Darwin, NT	Q3
24	J. Stead	AAPA	Darwin, NT	D1, A1, I1

Table 2.1	Summary	y of	parties	making	submissions	(cont'd)
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Main Heading No.	Issue Summary	Issue Summary No.	Number of Submissions Referring to Each Issue
А	AAPA Certificates	A1	2
	Cultural heritage management plan	A2	1
		A3	1
		A4	2
	Traditional owners	A5	1
В	ARD characterisation	B1	3
	ARD impacts	B2	6
	ARD management	B3	3
	Under-estimation of AMD	B4	1
С	Air quality impacts from dust	C1	1
	Air quality impacts from processing	C2	1
	Health impacts from lead-bearing dust	C3	1
	Health impacts from radon	C4	1
	Air quality impacts from radionuclides	C5	1
D	Editorial	D1	2
E	Lack of detail on process water dam	E1	1
	TSF seepage	E2	2
	Water treatment	E3	1
	Borrow areas	E4	1
	Site infrastructure	E5	1
	Effluent re-use	E6	1
			1
			1
			1
	-		1
			1
			1
			1
			1
	· •		1
			1
	TSF design TSF design/ARD mgmt/groundwater impacts	E17 E18	4 2
	Heading No. A B C	Heading No.AAPA CertificatesCultural heritage management planCultural heritage management planHeritage/archaeologyIndigenous valuesTraditional ownersTraditional ownersBARD characterisationARD impactsARD management Under-estimation of AMDCAir quality impacts from dust Air quality impacts from processing Health impacts from radon Air quality impacts from radionuclidesDEditorialELack of detail on process water dam TSF seepage Water treatment Borrow areas Site infrastructure Effluent re-use Final design Inconsistency Metallurgical process Mining schedule Pit wall failure Process water dam design Project layout/footprint Sediment trap, closure Sedimentation trap design TSF closure TSF design	Heading No.Summary No.AAAPA CertificatesA1Cultural heritage management planA2Heritage/archaeologyA3Indigenous valuesA4Traditional ownersA5BARD characterisationB1ARD impactsB2ARD managementB3Under-estimation of AMDB4TorocessingC1Air quality impacts from dustC1Air quality impacts from lead-bearing ustC3Health impacts from radonC4Air quality impacts from radionuclidesC5TSF seepageE2Water treatmentE3Borrow areasE4Site infrastructureE5Effluent re-useE6Final designE7InconsistencyE8Metallurgical processE9Mining scheduleE10Project layout/footprintE13Sediment trap, closureE14Sediment trap, closureE14Sediment trap, closureE14Sediment trap, closureE16TSF designE15

Main Heading	Main Heading No.	Issue Summary	Issue Summary No.	Number of Submissions Referring to Each Issue
Flora and fauna	F	Aquatic fauna characterisation	F1	1
		Biting insects	F2	1
		Cane toads	F3	1
		Clearing plan (pit)	F4	1
		Clearing program	F5	1
		Fauna impacts (adequately addressed)	F6	1
		Fauna impacts (general)	F7	1
		Fauna impacts (noise)	F8	2
		Fauna management	F9	1
		Flora impacts (general)	F10	1
		Riparian vegetation	F11	1
		Terrestrial fauna	F12	1
		Threatened species	F13	4
		Vegetation clearance / vine forest management and monitoring	F14	1
		Vine forest impacts	F15	1
		Weeds	F16	1
				1
Greenhouse gases	G	GHG commitments	G1	1
		GHG management	G2	1
		GHG targets	G3	2
Impacts on landuse and infrastructure	Н	Landscapes	H1	1
		Planning conflicts	H2	1
		Public infrastructure	H3	1
Legislation/Approvals		Additional inclusions	l1	2
Legislation/Approvais		Approvals for accommodation facilities	12	1
		Beneficial use	13	1
				1
Management systems/plans	J	ISO standards	J1	1
		Management plans	J2	1
				1
PER process/contents/ specialists	К	Lack of alternatives	K1	1
		No comment	K2	1
		No cooperative programs	K3	1
		PER premature	K4	3
		Power line	K5	2
		Aerial photograph doctoring	K6	1

Table 2.2 Summary of the main issues contained in the submission (cont'd)
---------------------------------------------------------------------------

Main Heading	Main Heading No.	Issue Summary	Issue Summary No.	Number of Submissions Referring to Each Issue
PER process/contents/ specialists (cont'd)		ANSTO	K7	2
		Baseline conditions	K8	2
		Bioremediation	K9	1
		Community complaints process	K10	1
		Consultation	K11	4
Pollution	L	Arsenic concentration	L1	1
		Cobalt production	L2	1
		Contaminated soil removal	L3	1
		Hazardous materials storage	L4	2
		Pollution pathways	L5	1
Proponent	M	Capability	M1	2
•		Credibility	M2	2
		Future plans	M3	7
		Subsidy	M4	1
Radiology	N	EPBC - nuclear action	N1	1
		Radiological assessment	N2	1
		Radiological baseline	N3	1
		Radiological impacts	N4	2
		Regional implications	N5	1
		Uranium	N6	1
		Uranium impacts/management	N7	2
		Uranium levels	N8	4
		Uranium management	N9	5
		Uranium mining	N10	2
		Uranium production	N11	1
Rehabilitation, monitoring and decommissioning	0	Closure and rehabilitation	O1	1
		Closure criteria	02	2
		Closure monitoring	O3	1
		Closure planning	04	2
		Mine closure	O5	1
		Monitoring	O6	5
		Rehabilitation	07	1
		Revegetation	O8	1
		Seepage	O9	1
		Surface water monitoring	O10	1
		Topsoil	011	2
		TSF monitoring	012	1
		TSF seepage management	O13	1

Table 2.2 Summar	y of the main issues contained in the submission (cont'd)

Main Heading	Main Heading No.	Issue Summary	lssue Summary No.	Number of Submissions Referring to Each Issue
Rum Jungle	Р	Groundwater impacts	P1	2
		Increased ARD at Rum Jungle	P2	2
		Links with Rum Jungle rehabilitation	P3	4
		Mining in Rum Jungle area	P4	1
		Rum Jungle interactions	P5	1
		Source of material from Rum Jungle site	P6	1
Socio-economic impacts	Q	Local impacts	Q1	4
		More information required	Q2	1
		Regional and NT impacts (beneficial)	Q3	1
		Health service interactions	Q4	1
		Potential risk to BIITE	Q5	1
Traffic and roads	R	Future expansion	R1	1
		Impact on local roads	R2	1
		Impacts on future arterial road corridor	R3	1
		More information required	R4	1
		Risk assessment	R5	1
		Road safety	R6	1
		Upgrade road intersection	R7	1
Water and waste management	S	Contaminated groundwater	S1	1
		Darwin River Dam impacts	S2	5
		Downstream water quality impacts	S3	6
		Fate of Browns test pit water	S4	1
		Groundwater discharge	S5	1
		Groundwater impacts	S6	9
		Groundwater impacts/ Monitoring/ Rum Jungle interactions	S7	1
		Groundwater mitigation	S8	3
		Groundwater understanding	S9	2
		Management Plans	S10	1
		Mine pit - end use	S11	2
		Mine pit water quality	S12	1
		Mine water	S13	1
		Mt Bennet dam catchment	S14	1
		Potable Water Supply	S15	1
		Surface water management	S16	4

Table 2.2 Summary of the main issues contained in the submission (cont'
-------------------------------------------------------------------------

Main Heading	Main Heading No.	Issue Summary	lssue Summary No.	Number of Submissions Referring to Each Issue
Water and waste management (cont'd)		Surface water management/ Sedimentation trap design	S17	1
		Surface water management/water structures design	S18	2
		Surface water monitoring	S19	2
		Surface/groundwater quality	S20	1
		Tailing management	S21	1
		TSF seepage water quality	S22	1
		Waste management	S23	1
		Waste rock	S24	1
		Waste tyres	S25	1
		Water balance	S26	2
		Water management	S27	3
		Water treatment	S28	4

### Table 2.2 Summary of the main issues contained in the submission (cont'd)