Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Annual Report (Combined Arrla Bay Project)
For the Period 6 June 2008 to 5 June 2009
EL 22744 Arrla Bay 1, EL 22708 Arrla Bay 2
EL 24657 Arrla Bay 2a, EL 22707 Arrla Bay 3
SD5301 Alligator River, SD5302 Milingimbi
SC5313 Coburg Peninsula
Northern Territory

Exploration Report No.28550

Tenement Holder:	Rio Tinto Exploration Pty Limited
Date:	June 2009
Author:	G K Hartshorn
Submitted:	G M Rheinberger
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SUMMARY OF ACTIVITES

The Arrla Bay Project consists of four granted Exploration Licences (EL) 22744, 22708, 24657 and 22707 that were applied for in 2000 by Rio Tinto Exploration Pty Limited (RTX). A further six applications that are in various stages of the grant process also form part of the project. The tenements are located approximately 60km northeast of Oenpelli in north-west Arnhem Land and consequently are processed under the Aboriginal Land Rights Act 1975 (ALRA).

The tenements were originally considered prospective for lateritic bauxite, however the drilling reported in the previous annual report has greatly downgraded the potential. The tenements still have uranium and manganese potential.

Lateritised Cretaceous sediments of the Arafura Basin extend over most of the tenement area. Outcropping basement of Proterozoic granites and metamorphics also occur.

Exploration completed during the reporting period included access negotiations on the surrounding tenement applications and participating in the GA (Geoscience Australia) Pine Creek (Kombolgie) multi-client airborne EM survey. Rio Tinto Exploration funded a total of 889 line kilometers of infill survey lines within the project.

At the time of reporting, the EM survey had been flown however the final data had not been received from Geoscience Australia.

No ground work was conducted.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	Arrla Bay_Annual Combined report 28550 pAI07_003	.pdf .pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics	pAI09_005	.pdf
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional	pAI07_005	.pdf
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	28550 Arrla Bay V	.pdf