



PEBBLE PROJECT

DRAFT ENVIRONMENTAL BASELINE STUDIES PROPOSED 2008 STUDY PLANS

CHAPTER 14. CULTURAL RESOURCES

DRAFT



Prepared For:
State of Alaska Large Mine Permitting Team
Department of Natural Resources

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14. CULTURAL RESOURCES

The objectives and methods for the 2008 cultural resources study are the same as described in the 2005 Study Plan, except as noted below. Work for the cultural resources study in 2004 through 2008 is summarized in Table 14-1. Stephen R. Braund & Associates (SRB&A) will lead cultural resources work on all three of these areas.

Table 14-1 summarizes work done for the cultural resources studies in 2004 through 2007 and planned for 2008.

The proposed work for the 2008 cultural resources study is the same as described in Chapter 14 of the 2005 Study Plan, except as noted below.

SRB&A has surveyed the mine components to their known extent as of 2007. To the extent that footprints of mine components are expanded or revised in 2008, the 2008 cultural resources field season will include a survey of these revised components of the mine as well as surveys of exploration-drilling areas that were not surveyed in 2004, 2005, 2006, or 2007. Figure 14-1 shows areas SRB&A surveyed in 2004, 2005, 2006, and 2007 and the area proposed to be surveyed in 2008 based on the most recent exploration information.

If the proposed transportation corridor and utility alignments (e.g., road, pipeline, or power line) are defined by the Pebble Partnership in 2008, these areas will be included the cultural resources field surveys.

In addition, the 2008 Study Plan will continue:

- Field survey at crossing landings on Newhalen River (one side of the crossing was surveyed in 2006 but it requires additional investigation to verify whether the surface depressions found are cultural or geologic).
- Consultation with state and federal agencies, Native organizations, and other interested parties
- Cultural resources interviews at two of the remaining communities in the vicinity of the mine area, transportation corridor, and port area: in Pedro Bay and Igiugig (Kokhanok, Newhalen, Nondalton, and Port Alsworth were completed in 2007 and Iliamna declined to participate).
- A review of a regional place-names inventory compiled under contract with the National Park Service as this inventory becomes available.

TABLE 14-1
Pebble Project Environmental Studies
Study Summary for Cultural Resources, 2004-2007
Consultant: Stephen R. Braund & Associates

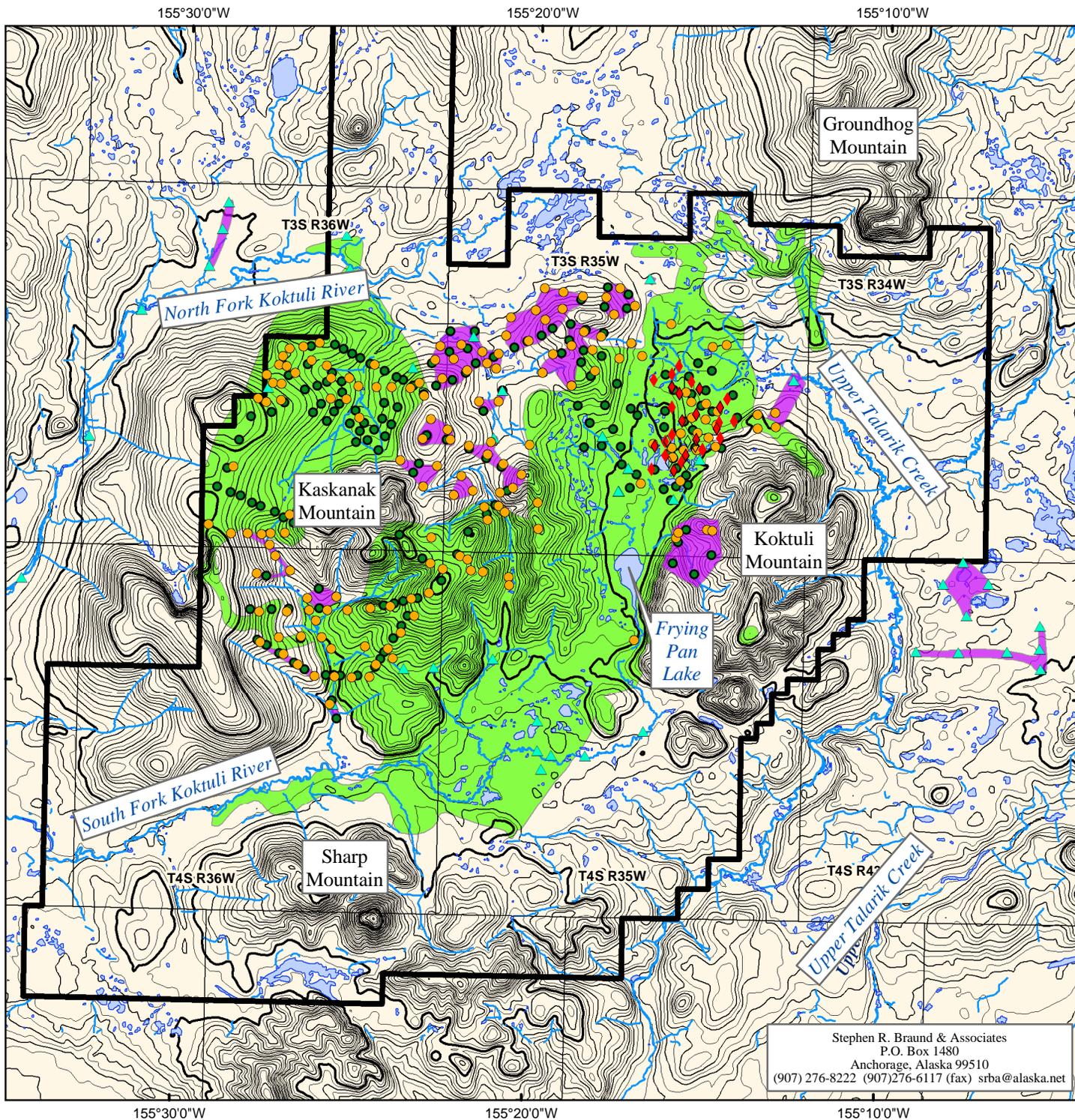
Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Data Collected or Tasks	2007 Data Collected or Tasks	2008 Tasks to be Completed
Cultural Resources	Mine Studies Area				
	Lit review & background information gathering	Lit review & background information gathering	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary	2007 Study Plan Summary	2008 Study Plan Summary
	Initiate consultation	Continue consultation	Continue consultation (agencies, Native orgs, others)	Continue consultation (agencies, Native orgs, others). Expand to include field interviews (see study plan).	Continue consultation (agencies, Native orgs, others). Complete field interviews - Pedro Bay & Igiugig
	Four trips (June-Sept): field & pedestrian surveys, subsurface testing, and monitoring of ground-disturbing activities. Surveyed the mine pit, meteorological monitoring stations, proposed and existing VHF repeater sites, water reservoir, reactive rock-storage areas, and low-grade ore stockpile.	April: surveyed exploration drilling area. August: two field trips to pit site to proposed tailings areas south and SW of pit area.	June: surveyed Upper Talarik Creek, west slope Koktuli Mtn, and ore body area. August: surveyed South Fork Koktuli River & Groundhog Mtn.	Field survey any expansion of mine footprint; survey exploration-drilling areas.	Field survey any expansion of mine footprint; survey exploration drilling areas, geotechnical testing sites, seismic shot lines, sump pits & any other ground disturbing activities
	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs; compile and analyze data	Process field data, notes, photographs, compile and analyze data
		Compile baseline inventory and description of cultural resources in the vicinity of the project	Compile baseline inventory and description of cultural resources in the vicinity of the project	Compile baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project areas based on new field surveys
	Presentation and report preparation	Presentation and report preparation	Presentation and report preparation	Presentation and report preparation	Presentation and Report Preparation
	Communication and data management	Communication and data management	Communication and data management	Communication and data management	Communication and Data Management
Coordination with NDM & Agencies	Coordination with NDM & Agencies	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting	Coordination with PLP, agency meetings, and monthly reporting	
	2004 CR Progress Report to NDM (1/31/05)				
	2004 CR Progress Report to SHPO (1/31/05)	2005 CR Progress Report to SHPO	2006 CR Annual Progress Report to SHPO (Pending)	2007 CR Annual Progress Report to SHPO	
	Feasibility Report--Cultural Resources (9/13/05)				
Agency Presentation--CR Oct 2004	Agency Presentation--Cultural Resources Nov 2005				
	Initial environmental analysis	Draft preliminary environmental baseline document	Draft preliminary environmental baseline document	Preliminary environmental baseline document & CEBD	

TABLE 14-1
Pebble Project Environmental Studies
Study Summary for Cultural Resources, 2004-2007
Consultant: Stephen R. Braund & Associates

Discipline	2004 Data Collected or Tasks	2005 Data Collected or Tasks	2006 Data Collected or Tasks	2007 Data Collected or Tasks	2008 Tasks to be Completed
Cultural Resources	Transportation Corridor/Port Site				
	Lit review & background information gathering	Lit review & background information gathering	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information	Update literature review, AHRS & OHA information
	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan	Scope, Schedule, Field Sampling Plan
	2004 Study Plan	2005 Study Plan	2006 Study Plan Summary	2007 Study Plan Summary	2008 Study Plan Summary
		Consultation	Continue Consultation	Continue Consultation	Continue consultation (agencies, Native orgs, others). Complete field interviews - Pedro Bay & Igiugig
		June: two field trips to Iniskin Bay port site			
				Facilitate mitigation of any ground-disturbing activities at port site	Facilitate mitigation of any ground-disturbing activities at port site, as requested
			October 2006: Field survey of crossing landing on Newhalen River		Complete field survey of crossing landings on Newhalen River
				Field survey of specific transportation alignments (road, pipeline, powerline) after identified on ground	Field survey of specific transportation alignments (road, pipeline, powerline) after identified on ground
			Process field data, compile and analyze data	Process field data, compile and analyze data	Process field data, compile and analyze data
		Compile baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project	Continue baseline inventory and description of cultural resources in the vicinity of the project areas based on new surveys
			Assess eligibility of known sites for listing on NRHP	Assess eligibility of known sites for listing on NRHP	Assess eligibility for listing on NRHP of known sites as necessary
		Report preparation	Report preparation	Report preparation	Presentation and Report Preparation
		Communication and data management	Communication and data management	Communication and data management	Communication and data management
Coordination with NDM & Agencies	Coordination with NDM & Agencies	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting	Coordination with NDM, agency meetings, and monthly reporting	Coordination with PLP, agency meetings, and monthly reporting
			2005 CR Progress Report to SHPO (Pending)	2006 CR Annual Progress Report to SHPO (Pending)	2007 CR Annual Progress Report to SHPO
	Initial environmental analysis	Draft preliminary environmental baseline document	Draft preliminary environmental baseline document	Draft preliminary environmental baseline document	Preliminary environmental baseline document & CEBD
					Arrange artifact curation at repository

Notes:

AHRS = Alaska Heritage Resource Survey
CR = cultural resources
NDM = Northern Dynasty Mines Inc.
NRHP = National Register of Historic Places
OHA = Department of Natural Resources, Office of History and Archaeology
SHPO = State Historic Preservation Officer

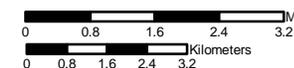


**Figure 14-1
Cultural Resources
Survey in the Vicinity
of the Mine Components**

- 2008 Proposed GH Hole
- ▲ 2008 Proposed HH Hole
- 2008 Proposed Soil Test Pit
- ◆ 2008 Proposed Core Hole
- ◇ 2008 Completed Core Hole

- 2008 Proposed Survey Area
- 2004-2007 Area Surveyed
Based on Probability
Methodology

□ Claim Boundary



Scale 1:150,000
Alaska State Plane Zone 5 (units feet)
1983 North American Datum

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