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**NORTHERN DYNASTY MINES INC.**

**DRAFT ENVIRONMENTAL BASELINE STUDIES  
2006 STUDY PLANS**

**CHAPTER 13.  
SUBSISTENCE**

**JULY 2006**

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## ACRONYMS

ADF&G      Alaska Department of Fish and Game  
SRB&A      Stephen R. Braund & Associates

## 13. SUBSISTENCE

The objectives and methods/approach for the mine study area, transportation corridor, and the port area are the same as described in the 2005 study plan with the exceptions noted below. Stephen R. Braund & Associates (SRB&A) will lead the subsistence work for these areas. The Alaska Department of Fish and Game (ADF&G), Division of Subsistence, will collaborate with SRB&A and will provide the results from systematic household surveys conducted in seven communities, updating baseline information about subsistence hunting, fishing, and gathering that is compatible with information collected in previous rounds of ADF&G household interviews.

Table 13-1 summarizes work on the subsistence and traditional knowledge studies in 2004 through 2006.

### 13.1 Objectives of Study

The objectives of the subsistence study are as described in Section 13.1 of the 2005 study plan.

### 13.2 Proposed Study Plan

The proposed work for 2006 is the continuation of research described in the 2005 study plan with some minor revisions, including the inclusion of Lime Village in the SRB&A subsistence mapping and traditional knowledge research. The communities and schedule for research are shown in Figure 13-1.

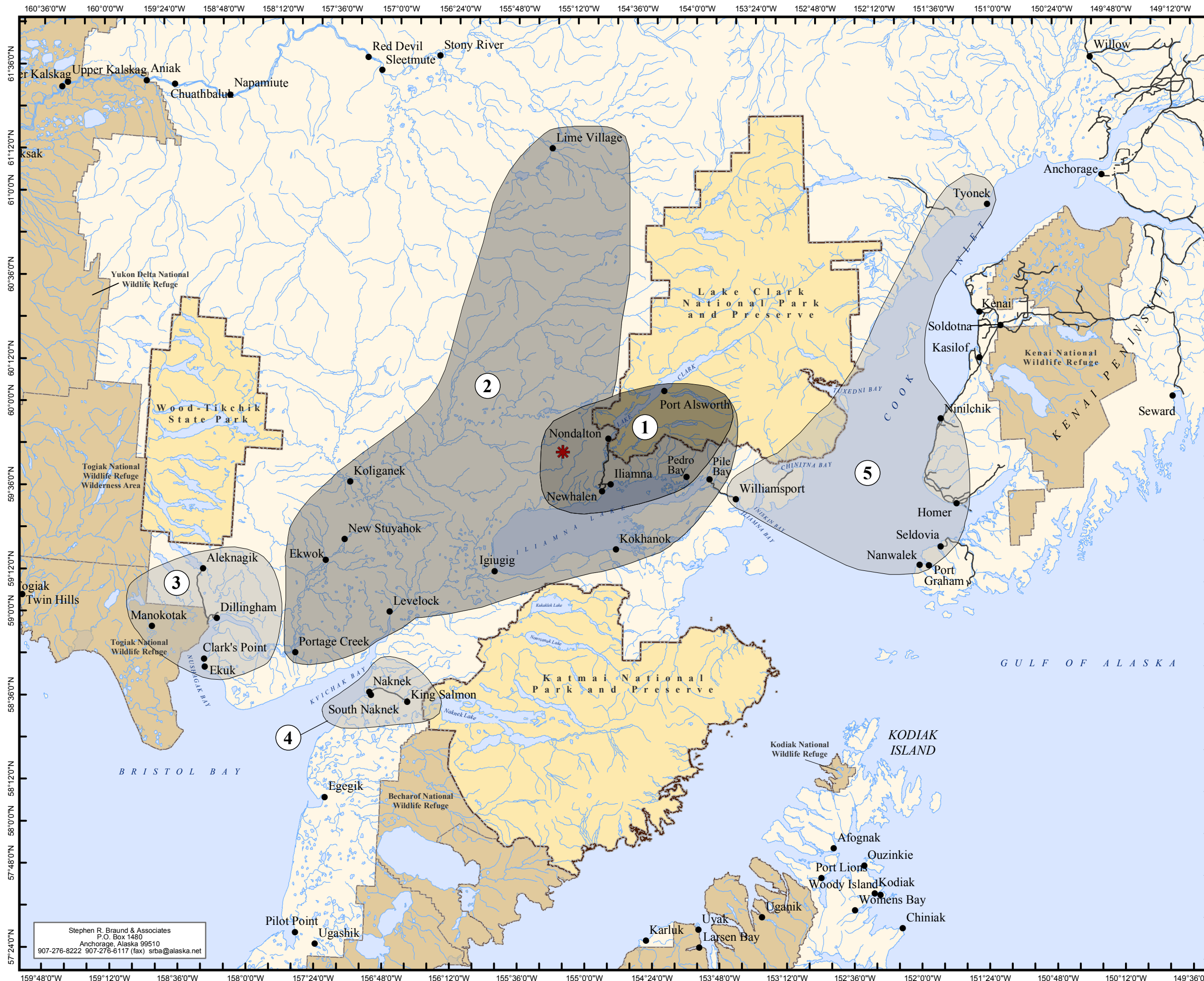
ADF&G has completed household surveys in Nondalton, Newhalen, Iliamna, Pedro Bay, and Port Alsworth and produced a draft report for review. ADF&G is currently conducting household surveys in Kokhanok, Igiugig, Levelock, Ekwok, New Stuyahok, Koliganek, and Portage Creek. The data from these seven communities will be analyzed to produce a report.

SRB&A is conducting subsistence mapping and traditional knowledge interviews in Nondalton, Newhalen, Iliamna, Pedro Bay, Port Alsworth, Kokhanok, Igiugig, Levelock, Ekwok, New Stuyahok, Koliganek, and Portage Creek. SRB&A is working with the communities to determine if additional interviews are necessary. The information from these interviews will be analyzed to contribute to the preliminary environmental baseline document.

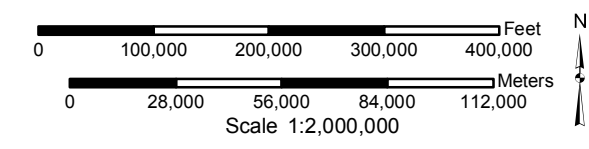
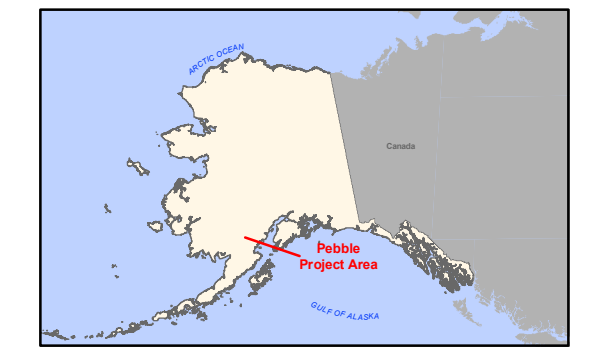
**Table 13-1**  
**Pebble Project Environmental Studies**  
**Study Summary for Subsistence and Traditional Knowledge, 2004-2006**  
**Consultant: Stephen R. Braund & Associates**  
**Date: 5/8/06**

| Discipline   | 2004<br>Data Collected or Tasks                         | 2005<br>Data Collected or Tasks   | 2006<br>Tasks to be Completed  |
|--|---|---|--|
| <b>Subsistence/Traditional Knowledge - All Areas</b> | Lit review & background information gathering           | Lit review & background information gathering   | Continue literature review   |
|  | Scope, Schedule, Field Sampling Plan<br>2004 Study Plan | Scope, Schedule, Field Sampling Plan<br>2005 Study Plan   | Scope, Schedule, Field Sampling Plan<br>2006 Study Plan Summary  |
|  | Ekwok NMWC Presentation Oct 2004                        |   |  |
|  | Initiate community contacts                             | Continue community contacts   | Continue community contacts  |
|  |   | ADF&G conduct household survey - 5 communities  | ADF&G household survey - 7 communities   |
|  |   | SRB&A subsistence mapping/TK interviews: begun in 12 communities                                  | SRB&A subsistence mapping/TK interviews: return trips to where not done & return to those communities (of 12) that request additional interviews |
|  |   |   | SRB&A add Lime Village mapping/TK Interviews   |
|  |   | ADF&G data entry & analysis - 5 communities   | ADF&G data analysis - 5 communities  |
|  |   | SRB&A map preparation of ADF&G data - 5 comm.   | SRB&A map edits of ADF&G data - 5 comm.  |
|  |   | ADF&G report preparation - 5 communities  | ADF&G submit draft report to SRB&A - 5 communities   |
|  |   |   | ADF&G Data Analysis - 7 communities  |
|  |   |   | SRB&A map preparation of ADF&G data - 7 comm.  |
|  |   |   | ADF&G report preparation - 7 communities   |
|  |   | SRB&A post-field editing & processing field data/notes, compile and analyze data - 12 communities | SRB&A post-field editing & processing field data/notes, compile and analyze data - 12 communities  |
|  |   | SRB&A digitize mapping data - 12 communities  | SRB&A digitize mapping data - 12 communities   |
|  |   | SRB&A quality control   | SRB&A quality control  |
|  |   |   | Data entry/analysis - Lime Village   |
|  |   | Communication and data management   | Communication and data management  |
|  |   | Data analysis   | Data analysis  |
|  |   | Feasibility Report-Subsistence (9/13/05)  |  |
|  | Agency Presentation Oct 2004                            | Agency Presentation Nov 2005  |  |
|  |   | Research & develop place-names database/map   |  |
|  | Coordination with NDM & Agencies                        | Coordination with NDM, agency meetings, and monthly reporting                                     |  |
|  |   | 2004 Progress Report  |  |
|  |   | Preliminary Environmental Baseline Document   |  |

Subsistence: Study Communities and Schedule  
Figure 13-1



- Communities
  - ✳ Minesite
  - Roads
  - Rivers
- ① ADF&G HH Survey and SRB&A Subsistence Mapping Interviews 2005-2006 - 5 Communities
  - ② SRB&A Subsistence Mapping Interviews 2005-2006 (except Pile Bay) - 8 Communities and ADF&G HH Survey 2006 (except Pile Bay & Lime Village) - 7 Communities
  - ③ ADF&G HH Survey & SRB&A Subsistence Mapping Interviews 2006 or later - 5 Communities
  - ④ ADF&G HH Survey & SRB&A Subsistence Mapping Interviews 2007 or later - 3 Communities
  - ⑤ Telephone Interviews 2007 or later



Alaska State Plane Zone 5 (units feet)  
1983 North American Datum

|                          |                    |
|--------------------------|--------------------|
| File: Figure13-1 June 06 | Date: June 7, 2006 |
| Version: 1               | Author: SRB&A      |

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