



2013 Annual Reclamation Report

The Pebble Project

Iliamna, Alaska

Prepared by: JBN Consultants, Inc.
Eagle River, Alaska

4 April 2014

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1.0 INTRODUCTION

This report summarizes information related to land reclamation conducted by the Pebble Project during 2013. Until recently, the Pebble Project was a mineral exploration and development project owned by the Pebble Limited Partnership (PLP), an Alaska limited partnership formed in July 2007 between a wholly owned U.S. subsidiary of Anglo American PLC and a wholly owned U.S. entity of Northern Dynasty Minerals, Ltd. On 16 September 2013, Anglo American announced its intention to withdraw from the Pebble Project and on 16 December it had concluded its exit from the 50:50 partnership.

During 2013, land reclamation was conducted between June and October concurrently with exploration in accordance with the following Miscellaneous Land Use Permit (MLUP) for Hardrock Exploration & Reclamation:

- A136118 (MLUP effective dates 21 March 2013 through 31 December 2013) granted by the Alaska Department of Natural Resources, Division of Mining, Land & Water (ADNR-DMLW) on 21 March 2013;

This permit was granted to:

*Pebble East Claims Corporation
& Pebble West Claims Corporation
Pebble Partnership
3201 C Street, Suite 604
Anchorage, Alaska 99503*

written in accordance with and subject to the requirements and general stipulations of Alaska Statute 27.19 (Reclamation); Alaska Statute 38.05 (Alaska Land Act); Alaska Administrative Code, Title 11, Chapter 86 (Mining Rights); Chapter 96 (Miscellaneous Land Use), and Chapter 97 (Mining Reclamation).

1.1 Location

The Pebble Project is located in southwestern Alaska, 200 miles from Anchorage and 60 miles from tidewater at Cook Inlet and 17 miles NW of Iliamna, Alaska. The Pebble property consists of 209,996 acres of Alaska state mineral claims, hosting one of the world's most important accumulations of copper, gold and molybdenum.

1.2 Reclamation Project Objectives

The primary objective for land reclamation is to initiate proactive measures to minimize the impact to the land surface. As stipulated in the Pebble Project MLUP:

- a) If topsoil and/or overburden muck is disturbed or removed on account of exploration activities it shall be separated and stockpiled for future reclamation of

- the site. This material shall be protected from erosion and contamination by acidic or toxic materials and shall not be buried by other materials.
- b) In performing reclamation of disturbed areas, disturbed ground shall be reshaped and re-contoured to blend with surrounding physiography using excavated materials. Following reshaping and re-contouring, topsoil and organic material shall be re-spread over the surface in order to facilitate the re-growth of natural vegetation.
 - c) All exploration trenches shall be reclaimed before the end of the exploration season in which they are constructed, unless they are specifically approved to remain open by the Division of Mining, Land & Water. Trenches shall be backfilled with material excavated and mounded slightly. Topsoil and other overburden organic materials shall be spread on the backfilled surface along with any vegetation material in order to promote natural revegetation. Exploration trenches will have water bars installed as needed for erosion control. Exploration trenches on state lands shall be flagged and signs posted to notify the public of the open trenches.
 - d) Shallow auger holes (limited to the depth of overburden) shall be backfilled with auger cuttings to the top of the hole.
 - e) For drill sites located in vegetated terrain with developed soils covering unconsolidated deposits over bedrock, the use of sump pits to settle drill cuttings from the drilling fluid is recommended. Upon completion of drilling, stockpiled unconsolidated material and soil can be used to cap the drill cuttings in the sump.
 - f) All drill hole casings shall be removed or cut off at, or below ground level.
 - g) All drill holes shall be plugged with bentonite holeplug, a benseal mud, or equivalent slurry, for a minimum of 10 feet with the top 20 feet of the drill hole in competent material. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug, a benseal mud, or cement slurry shall be placed immediately above the static water level in the drill hole. Complete filling of the drill holes, from bottom to top, with bentonite holeplug, benseal mud, or equivalent (cement) slurry is also permitted and is considered to be the preferred method of hole closure.
 - h) If artesian water flow conditions are encountered, the operator shall contact the Division of Mining, Land & Water (907-269-8652 or 907-451-2795) or the Department of Environmental Conservation (ADEC) (907-269-4028 or 907-451-2101) for hole plugging requirements.
 - i) Upon completion of drilling activity, drill pads shall be reclaimed as necessary, including spreading remaining drill cuttings and reseeded to encourage natural revegetation of the sites and protect them from erosion.
 - j) Trails, roads and surface disturbance shall be held to a minimum. Exploration drill pads shall be constructed in such manner that vegetation and topsoil will not be buried beneath drill cuttings or overburden.

2.0 SITE SUMMARY

2.1 Access

As in previous years, exploration activities were supported via helicopter in 2013. Other than the exception noted below, all access to the exploration site from Iliamna and within the deposit area was made via helicopter stationed at the Iliamna Airport.

- Bulk fuel was transported to Wiggly Heliport via light fixed wing aircraft with floats operating off Big Wiggly Lake. During some previous years, a temporary ice winter airstrip was made on top of Big Wiggly Lake by back blading and leveling the snow over an area of approximately 100 ft. x 2,500 ft. This year drilling operations began in June and ended in September; therefore, a temporary ice strip was not needed for fuel delivery.

2.2 Support Structures

- All personnel were lodged off-site in the town of Iliamna.
- The following temporary structures are located within the Pebble claim area (all will be removed when no longer needed):
 - The Supply Depot, “Camp,” built in 2004 in the SE1/4 SE1/4 Sec 21 T3S R35W is used for storage of drill parts, water line, reclamation supplies, etc. in temporary structures. When not in use at the drill rigs, all other temporary structures used as emergency shelters, water heater housing, empty garbage totes, outhouses, etc., are also stored at the Supply Depot. One 10ft x 20ft wooden structure is used to store drill supplies that require protection from the elements. A WeatherPort type tent (approximately 24ft x 60ft) is used to temporarily store mechanical equipment. Both temporary structures are heated.
 - Two temporary structures have been erected to protect water hose and keep it from freezing. They are referred to collectively as the “Water Shed” and are located within the main deposit area east northeast of the Supply Depot. One is metal clad (approximately 10ft x 20ft) and the other is a wooden structure (approximately 20ft x 40ft).
 - Several small temporary structures are located at each drill site. The buildings are used for storage and employee safety. The drill crew emergency shelter was a WeatherPort type tent, heated, and stocked with emergency supplies, e.g., extra food and blankets. An emergency medical technician (EMT) was stationed within a mobile MedPort (WeatherPort type tent) located at each rig when the drill crew was on-site. Structures were built in town and moved by helicopter to each site. All are temporary, heli-portable, and moved with the drills when the bore hole is complete. At the conclusion of the field season, all drill rigs and supporting temporary structures were demobilized to the Supply Depot or transported back to Iliamna.

- A portable toilet consisting of a bucket with a plastic bag insert and snap on seat was positioned within a temporary wooden outbuilding at each drill site. Human solid waste was transported off-site where it was shipped to Safety Waste Incineration in Wasilla, Alaska, for treatment.
- Temporary wooden structures (i.e., emergency shelter and a generator shack) are positioned at the three "Westbay" monitoring wells to provide shelter for crews during data collection. One Westbay monitoring well is located on the east side of the main deposit at former drill location DDH-6349, the second is located on the west ridge of "G"-Valley, at former drill location GH10-220, and the third is located on the northeast corner of the Supply Depot area at former drill location DDH 11531.
- A temporary fiberglass structure (approximately 8ft x 8ft) and associated equipment are located at each of the two weather stations located on the west side of the main deposit area. Pebble 1, aka North Weather Station, is situated at 59d 54.183 N, 155d 19.800 W. Pebble 8, aka Northwest Weather Station, is situated at 59d 54.536 N, 155d 18.742 W.
- One temporary metal structure (approximately 8ft x 8ft) and associated equipment are located at a radio repeater station located on the east side of the main deposit area on top of North Koktuli Mountain. The coordinates are 59d 52 19.0 N, 155d 13 11.0 W
- During 2013, two 60 meter towers were installed at two distinct locations. The purpose of these stations is to collect wind data for 18 to 24 months, after which the towers and stations will be removed and site reclaimed. Meteorological Tower 1 is located on State of Alaska land, PLP mining claim, on Kaskanak Mountain approximately 18 miles from the Iliamna Airport at 59d 49 40.08 N, 155d 28 33.67 W. Meteorological Tower 2 is located on State of Alaska land, PLP mining claim, on Sharp Mountain approximately 17 miles from the Iliamna Airport at 59d 46 55.70 N, 155d 26 01.72 W.

2.3 Fuel

Daily project activities were performed in accordance with the PLP Spill Prevention Control and Countermeasures Plan (SPCC Plan).

- Helicopters are based at the Iliamna Airport and are refueled at the airport as well as at the "Wiggly Heliport" located at Big Wiggly Lake. The heliport is used as a re-fueling station for helicopters working in the project area and for fueling supply tanks used at the drill rigs. The 110-gallon double wall fuel supply tanks are transported to the rigs by helicopter. Structures present at the heliport include five (5) one-thousand gallon double -wall fuel tanks situated inside aluminum containment that have a holding capacity of greater than 110% of the volume of each tank, two wooden helicopter landing pads, and two temporary sheds used to store supplies/ spill response equipment. The distance from the closest fuel tank to the lake shore is 104 feet.

- Bulk fuel for the Pebble Project was supplied by Iliamna Development Corporation and the Iliamna Lake Lodge Fuel Services from their facilities in Iliamna.
- Maximum quantity of 4,000 gallons of diesel fuel was stored at one site (i.e., Wiggly Heliport) located at Big Wiggly Lake. Although, these five tanks have a 5,000 gallon total capacity they are only filled to 80 percent. Fuel was transferred into 110-gallon Department of Transportation-approved supply tanks and transported via helicopter to drill sites for daily operations.
- Typically, the quantity of fuel stored at each drill rig was less than 600 gallons positioned within secondary containment.
- Fuel storage sites were located at least 100 ft. from water bodies.
- Fuel was stored in double-walled above ground storage tanks positioned within aluminum secondary containment fuel storage areas. In accordance with State of Alaska regulations, secondary containments are constructed to have greater than 110% capacity of the largest fuel storage tank.
- Emergency spill kits and absorbent materials are kept at each fuel storage site.
- Regardless of whether sheen was observed on storm-water within the secondary containment, the water was treated through an Absorbent W® water scrubbing system. One of these water treatment units was available at each fuel storage site.

3.0 PROPOSED VS. ACTUAL PROJECT ACTIVITIES

According to the Pebble Project MLUP A136118, based on a letter of intent to complete reclamation this operation is exempt from Reclamation Bonding. According to the 2013 Plan of Operations for the Pebble Exploration Project, submitted to ADNR on 4 February 2013, project management anticipated a land disturbance of 1.48 acres related to the following activities. “Disturbed” is defined as the vegetative matt removed or destroyed.

Proposed acreage to be disturbed between May 1, 2013 and December 31, 2013:

- Forty (40) diamond core drilling boreholes;
- One hundred-thirty (130) hydrologic and geotechnical drill holes [using mud rotary, reverse circulation (RC) and/or sonic drilling];
- Two hundred twenty-five (225) shallow soil test pits; and
- Thirty-four (34) seismic lines totaling no more than 220,000 feet.

0.32 acres	Diamond core drilling sites
0.05 acres	Upland drill water discharge sites
0.26 acres	Mud rotary, RC, and/or Sonic drilling sites
0.14 acres	Shallow soil test pits
<u>0.71 acres</u>	Seismic lines
1.48 acres	TOTAL

Total land disturbed during the 2013 field operations was approximately 0.06 acres. Activities actually performed during 2013 included:



Actual acres disturbed between June and October 2013:

- No diamond core boreholes were conducted this season for exploratory purposes;
- Twenty-nine (29) mud rotary boreholes for geotechnical purposes;
- No RC or Sonic drilling was conducted this season;
- No shallow soil test pits were excavated this season;
- No seismic studies were conducted this season;

0.00 acres	Diamond core drilling boreholes
0.00 acres	Upland drill water sump locations
0.06 acres	Mud rotary drilling boreholes
0.00 acres	Shallow test pits
<u>0.00 acres</u>	Seismic lines
0.06 acres	TOTAL

A summary of proposed versus actual land disturbance and site reclamation activities is presented in Table 1.

Table 1. 2013 PLP Project Activities: Proposed Vs. Actual Disturbed Acreage

Activity	Proposed (2013)		Actual (2013)			2014
	Number of Sites	Estimated Disturbance (acres)	Number of Sites	Disturbance (acres)	Reclaimed (acres)	To Be Reclaimed (acres)
Diamond core drilling	40	0.32	00	0.00	0.00	0.00
Upland drill water sump		0.05	0	0.00	0.00	0.00
Geotechnical drilling (Mud Rotary)	130	0.26	29	0.06	0.06	0.00
Shallow Test pits	225	0.14	0	0.00	0.00	0.00
Seismic lines	34	0.71	0	0.00	0.00	0.00
subtotal acres (2013)		1.48		0.06	0.06	
2012 acreage reclaimed				0.12	0.12	
2012 acreage left to be reclaimed						0.00
2013 acreage left to be reclaimed						0.00
Grand Total Acres		1.48		0.18	0.18	0.00

Table Notes:

Upland Drill Water Sump = when necessary to keep water away from streams, lakes, and wetlands drill water is pumped to an upland location for infiltration into the ground.

Disturbed Acreage = Values are calculated based on mineral soil disturbance only and did not account for areal footprint of the temporary structures set on top of tundra pads or where vegetation was simply compressed.

4.0 SITE RECLAMATION

4.1 Site Operations – 2013

During 2013 approximately 0.18 acres were reclaimed from work completed during the 2012/2013 field programs, leaving 0.00 acres to be reclaimed for future field seasons. A summary of reclamation activities for boreholes is provided in Table 2.

Once activities were completed at each site, site reclamation was conducted using a helicopter supported mini-excavator, hand-shovels, and rakes. During these activities the disturbed land surface was recontoured and the retained surface vegetation was replaced and /or replanted to inhibit erosion and enhance natural revegetation. Sites were reclaimed in accordance with the Pebble Project MLUP A136118.

2013 Land Disturbance vs. Reclamation (1 acre = 43,560 sq ft.)

The following is a summary of the number of acres disturbed and/or reclaimed during 2013. “Disturbed” is defined as the vegetative matt removed or destroyed.

- 0.12 – disturbed acres remaining following 2012 program, reclaimed during 2013
- 0.00 – acres still remaining to be reclaimed from 2012 exploration program
- 0.06 – total acres disturbed during 2013 exploration program
- 0.06 – acres disturbed during 2013 exploration program, reclaimed during 2013
- 0.00 – acres disturbed from 2013 exploration program remaining to be reclaimed

4.1.1 Diamond Core Drilling

Diamond core boreholes proposed for the 2013 field season were not completed; therefore, there was no land reclamation required for this task.

Ten diamond core boreholes remaining from the 2012 field season were reclaimed during 2012 (i.e., DDH 12547, 12548, 12551, 12552, 12555, 12557, 12559 through 12562).

4.1.2 Upland Drill Water Sumps

During the 2013 field season, no additional sumps were excavated upgradient of the drill sites; therefore, there was no land reclamation required for this task.

4.1.3 Geotechnical Drilling

4.1.3.1 Mud Rotary Drilling

Twenty-nine (29) geotechnical boreholes [Geotechnical holes (GH) GH13-358 through GH13-386] were drilled using one mud-rotary drill rig during the 2013 field season. All twenty-nine (29) of these mud rotary borehole sites were reclaimed during 2013.

Twelve (12) of the 12 mud rotary borehole sites remaining to be reclaimed from 2012 (i.e., GH12-305, GH12-306, GH12-326, GH12-328, GH12-342, GH12-346, GH12-348 through GH12-350, GH12-352, GH12-353, and GH12-355) were reclaimed during 2013.

Eight (8) monitoring wells which were installed during 2012 in PLP's Rocky Cove claim area (i.e., GH12-342, GH12-346, GH12-348 through GH12-350, GH12-352, GH12-353, and GH12-355) were decommissioned and sites reclaimed during 2013 (Figure 4). Each monitoring well was decommissioned in accordance with ADEC's Monitoring Well Guidance, dated September 2013. Given that the original construction of the monitoring well was known to have included a competent annular seal of grout surrounding the well casing, the screen was filled with sand and the casing completely sealed in-place with coated bentonite pellets to allow for timed hydration in the groundwater column. Staff used bentonite pellets to completely fill the well casing to the cutoff point located approximately 1-foot below ground surface. The casing stick-up and steel monument were removed from site and the ground surface was reclaimed.

4.1.3.2 Reverse Circulation/ Sonic Drilling

No boreholes were completed using reverse circulation or sonic drilling methods during the 2013 field season.

Sixteen (16) of the 16 sonic borehole sites remaining to be reclaimed from 2012 (i.e., GH12-304S, GH12-311S, GH12-313S, GH12-315S, GH12-329S, GH12-336S, GH12-337S, GH12-339S, GH12-343S through GH12-345S, GH12-347S, GH12-351S, GH12-354S, GH12-356S, and GH12-357S) were reclaimed during 2013.

4.1.4 Shallow Soil Test Pits

Shallow soil test pits proposed for the 2013 field season were not completed; therefore, there was no land reclamation required for this task.

4.1.5 Seismic Lines

Seismic lines proposed for the 2013 field season were not completed; therefore, there was no land reclamation required for this task.

Site activities undertaken in 2013 are depicted in Figures 1 through 4. Representative photographs of typical reclaimed drill sites are provided in Appendix A. A copy of the 2013 Annual Reclamation Statement is presented in Appendix B. Complete photographic evidence of land reclamation for all 2013 exploration sites is on file in the PLP field office and available upon request.

4.2 Sumps and Trenches

During initial drill rig set-up, a helicopter supported mini-excavator was mobilized to the site to excavate sumps to catch the drill cuttings and to make a reservoir for the drill return. For this purpose, typically one to three sumps were excavated with dimensions each measuring approximately 5-feet x 16-feet x 6-feet deep. A trench measuring approximately 1-ft x 40-ft x 2-ft deep was also excavated to transfer drill return from the drill collar to the sumps. The water generated from drill operations was either recirculated and reused for drilling or pumped to an upland drill water location away from streams, lakes, and wetlands for natural infiltration to the ground.

Once drilling was completed at each site the helicopter supported mini-excavator was used to backfill and recontour the sumps and trenches. The retained surface vegetation was replaced and /or replanted to inhibit erosion and enhance natural revegetation.

4.3 Tundra Pads and Matting

Drill components were placed on top of temporary wooden platforms constructed of timbers and decking. Approximately ten to twelve 8-ft x 16-ft “tundra pads” and wooden boardwalks were placed at high traffic areas around the drill site to minimize the impact to the ground surface. They were moved into position via helicopter during initial rig set-up and demobilized when the borehole was complete.

Once the tundra pads and the matting were removed project staff used the back of a rake to massage the tundra to spring back to its original position.

4.4 Drill Water and Sediment Control

When necessary, temporary barriers (i.e., silt fencing, sorbent booms, straw booms, and straw bales) were deployed down gradient of drill operations to prevent incidental drill fluid overflow from encroaching upon surface water drainages. These materials were demobilized when the borehole was complete.

4.5 Solid Waste Management

A temporary aluminum “Flying Dumpster” was positioned at each project site to prevent trash from blowing away during high winds and helicopter sling-load operations. These sturdy aluminum receptacles were manufactured in 2011 to replace a wooden version. When full these dumpsters were slung via helicopter to Iliamna where trash and debris was sorted for transport to an off-site recycling facility or incineration in Iliamna.

A portable toilet consisting of a bucket with a plastic bag insert and snap on seat was positioned within a temporary wooden outbuilding at each drill site. Human solid waste was transported off-site to Iliamna where it was shipped to Safety Waste Incineration in Wasilla, Alaska, for treatment.



4.6 Additional Reclamation at Historical Borehole Locations

During 2013, crews identified one historical borehole location (i.e., DDH 9462) as needing additional reclamation. This borehole was reclaimed during the 2013 field season in accordance with the MLUP.



5.0 DATE

This report is dated 4 April 2014.

The undersigned prepared the report entitled “2013 Annual Reclamation Report – The Pebble Project Iliamna, Alaska.” A Certificate of Author is provided in Appendix C.

/s/ Jeffrey B. Norberg, President JBN Consultants, Inc.

Jeffrey B. Norberg, B.Sc. Geo.

Table 2. 2013 Pebble Exploration Project - Reclamation Status - Boreholes

Pre Site ID	Post Site	Number	ADL	Claim Name	Township	Seward - Meridian			MAD83 AK State Plane Zone 5			WGS84			Depth (ft)
						Range	Section	Disturbed in 2012 - Reclamation Completed in 2013	Easting (ft)	Northing (ft)	Longitude	Latitude			
Diamond Drill Boreholes															
SCH12-05	DDH 12547	524826	PEBBLE BEACH 5354	T35	R35W	NW1/4, NW1/4, Sec 27	1404248	2155482	-155.2861	59.8941	468				
SCH12-05 (Redrill of DDH 12547)	DDH 12548	524826	PEBBLE BEACH 5354	T35	R35W	NW1/4, NW1/4, Sec 27	1404248	2155482	-155.2861	59.8941	1106				
SCH12-04	DDH 12551	524827	PEBBLE BEACH 5355	T35	R35W	NW1/4, NW1/4, Sec 27	1404755	2155201	-155.2833	59.8934	3006				
EXK12-1	DDH 12552	668943	KAS 203	T65	R37W	SE1/4, SW1/4, Sec 14	1356840	2067329	-155.5331	59.6502	497				
DEV12-17	DDH 12555	516810	PEBBLE BEACH 5452	T35	R35W	SW1/4, SE1/4, Sec 21	1401047	2156175	-155.3036	59.8958	1646				
DEV12-31	DDH 12557	516873	PEBBLE BEACH 5352	T35	R35W	NW1/4, NE1/4, Sec 28	1401030	2154754	-155.3036	59.8919	1188				
DEV12-38	DDH 12559	516807	PEBBLE BEACH 5449	T35	R35W	SE1/4, SR1/4, Sec 20	1397973	2156124	-155.3204	59.8955	682				
EXP12-5	DDH 12560	524787	PEBBLE BEACH 4348	T45	R35W	NW1/4, SE1/4, Sec 5	1396504	2141929	-155.3268	59.8566	1479				
DEV12-44	DDH 12561	516807	PEBBLE BEACH 5449	T35	R35W	SE1/4, SE1/4, Sec 20	1397967	2156619	-155.3204	59.8969	1117				
DEV12-45	DDH 12562	516807	PEBBLE BEACH 5449	T35	R35W	SE1/4, SE1/4, Sec 20	1398001	2157011	-155.3203	59.8980	418				
Geotechnical Boreholes															
MW12-45	GH12-3045	524781	PEBBLE BEACH 4153	T45	R35W	NE1/4, NE1/4, Sec 9	1402270	2139773	-155.2952	59.8510	380				
GH12-DA	GH12-305	540446	SILL 7947	T35	R35W	SW1/4, SE1/4, Sec 14	1412261	2162097	-155.2432	59.9126	110				
GH12-DB	GH12-306	540457	SILL 8146	T35	R35W	SE1/4, NW1/4, Sec 14	1410424	2163763	-155.2533	59.9171	110				
MW12-1	GH12-3115	516963	PEBBLE BEACH 4253	T45	R35W	SE1/4, SE1/4, Sec 4	1402866	2141131	-155.2921	59.8548	250.5				
MW12-37	GH12-3135	516809	PEBBLE BEACH 5451	T35	R35W	SE1/4, SW1/4, Sec 21	1400246	2157018	-155.3081	59.8981	128				
PW12-2	GH12-3155	516809	PEBBLE BEACH 5451	T35	R35W	SE1/4, SW1/4, Sec 21	1400205	2156972	-155.3083	59.8980	160.2				
GH12-DJ	GH12-326	516860	PEBBLE BEACH 5151	T35	R35W	NE1/4, SW1/4, Sec 28	1399545	2152675	-155.3114	59.8862	350				
GH12-DI	GH12-328	516855	PEBBLE BEACH 5052	T35	R35W	SW1/4, SE1/4, Sec 8	1401506	2150880	-155.3006	59.8814	200				
MW12-23	GH12-3295	524823	PEBBLE BEACH 5154	T35	R35W	NW1/4, SW1/4, Sec 27	1404078	2152777	-155.2868	59.8867	92				
GH12-AK	GH12-3365	516964	PEBBLE BEACH 4254	T45	R35W	SW1/4, SW1/4, Sec 3	1403366	2140717	-155.2894	59.8537	259				
GH12-AJ	GH12-3375	524781	PEBBLE BEACH 4153	T45	R35W	NE1/4, NE1/4, Sec 9	1403020	2139641	-155.2911	59.8507	259				
MW12-12	GH12-3395	516962	PEBBLE BEACH 4252	T45	R35W	SW1/4, SE1/4, Sec 4	1401808	2140728	-155.2978	59.8536	359				
CF12-06a	GH12-342	715315 ²	RC 122	T85	R26W	NE1/4, SW1/4, Sec 30	1682369	1991535	-153.7745	59.4516	250				
GH12-CG	GH12-3435	566990	PEBBLE BEACH 6043	T35	R35W	SE1/4, NW1/4, Sec 18	1389566	2164733	-155.3671	59.9186	130.5				
GH12-CH	GH12-3445	531453	PEBBLE BEACH 5944	T35	R35W	NW1/4, SE1/4, Sec 18	1391510	2163396	-155.3563	59.9151	165				
GH12-CI	GH12-3455	531455	PEBBLE BEACH 5946	T35	R35W	NW1/4, SW1/4, Sec 17	1393460	2163614	-155.3457	59.9158	200				
CF12-06b	GH12-346	715315 ²	RC 122	T85	R26W	NE1/4, SW1/4, Sec 30	1682332	1991527	-153.7747	59.4516	76				
GH12-CK	GH12-3475	531454	PEBBLE BEACH 5945	T35	R35W	NE1/4, SE1/4, Sec 18	1392557	2162781	-155.3506	59.9134	180				
CF12-02a	GH12-348	715302 ²	RC 109	T85	R26W	NW1/4, NW1/4, Sec 30	1681024	1994109	-153.7817	59.4586	165.5				
CF12-02b	GH12-349	715302	RC 109	T85	R26W	NW1/4, NW1/4, Sec 30	1681004	1994138	-153.7818	59.4587	45				
CF12-10a	GH12-350	715289 ²	RC 096	T85	R26W	SE1/4, SE1/4, Sec 19	1685929	1997035	-153.7553	59.4666	165				
GH12-DR	GH12-3515	531450	PEBBLE BEACH 5845	T35	R35W	SE1/4, SE1/4, Sec 18	1392487	2162385	-155.3509	59.9123	170				
CF12-10b	GH12-352	715289 ²	RC 096	T85	R26W	SE1/4, SE1/4, Sec 19	1685910	1997004	-153.7554	59.4665	35				
CF12-14a	GH12-353	715247	RC 054	T85	R27W	NW1/4, NE1/4, Sec 13	1678477	2004932	-153.7952	59.4883	135				
GH12-CN	GH12-3545	531447	PEBBLE BEACH 5746	T35	R35W	NW1/4, NW1/4, Sec 20	1393046	2161310	-155.3478	59.9094	256				
CF12-14b	GH12-355	715247	RC 054	T85	R27W	NW1/4, NE1/4, Sec 13	1678446	2004913	-153.7954	59.4882	38				
GH12-CM	GH12-3565	531450	PEBBLE BEACH 5845	T35	R35W	SE1/4, SE1/4, Sec 18	1391835	2162035	-155.3544	59.9114	250				
GH12-CX	GH12-3575	540450	SILL 8045	T35	R35W	NW1/4, SW1/4, Sec 14	1409402	2162987	-155.2588	59.9149	315				

Table 2. 2013 Pebble Exploration Project - Reclamation Status - Boreholes

Pre Site ID	Post Site	Number	ADL	Claim Name	Township	Seward - Meridian		MAD83 AK State Plane Zone 5			WGS84		Depth (ft)
						Range	Section	Easting (ft)	Northing (ft)	Longitude	Latitude		
Geotechnical Boreholes													
GH13-F	GH12-358	642444	PEB WB 33		T3S	R36W	SW1/4, SE1/4, Sec 14	1380467	2161815	-155.4163	59.9101	230	
GH13-C	GH12-359	642443	PEB WB 32		T3S	R36W	SE1/4, SW1/4, Sec 14	1379757	2162109	-155.4202	59.9109	160	
GH13-B	GH12-360	642443	PEB WB 32		T3S	R36W	SE1/4, SW1/4, Sec 14	1379052	2162451	-155.4241	59.9118	200	
GH13-K	GH12-361	642443	PEB WB 32		T3S	R36W	SE1/4, SW1/4, Sec 14	1379525	2161793	-155.4214	59.9100	160	
GH13-L	GH12-362	642440	PEB WB 29		T3S	R36W	NW1/4, NE1/4, Sec 23	1380374	2161108	-155.4167	59.9082	160	
GH13-BL	GH12-363	642443	PEB WB 32		T3S	R36W	SW1/4, SW1/4, Sec 14	1378140	2162880	-155.4315	59.9157	185	
GH13-BR	GH12-364	642442	PEB WB 31		T3S	R36W	SE1/4, SE1/4, Sec 15	1376441	2162678	-155.4383	59.9122	155	
GH13-BM	GH12-365	642442	PEB WB 31		T3S	R36W	SW1/4, SE1/4, Sec 15	1374769	2162544	-155.4474	59.9118	120	
GH13-CF	GH12-366	642441	PEB WB 30		T3S	R36W	SE1/4, SW1/4, Sec 15	1374194	2161892	-155.4505	59.9099	215	
GH13-BN	GH12-367	642437	PEB WB 26		T3S	R36W	NE1/4, NW1/4, Sec 22	1373720	2160780	-155.4529	59.9069	125	
GH13-BS	GH12-368	642437	PEB WB 26		T3S	R36W	SW1/4, NW1/4, Sec 22	1372864	2159550	-155.4575	59.9035	110	
GH13-M	GH12-369	642440	PEB WB 29		T3S	R36W	NW1/4, NE1/4, Sec 23	1381085	2161086	-155.4129	59.9081	220	
GH13-E	GH12-370	642440	PEB WB 29		T3S	R36W	NE1/4, NE1/4, Sec 23	1381385	2161291	-155.4113	59.9087	205	
GH13-D	GH12-371	642440	PEB WB 29		T3S	R36W	NE1/4, NE1/4, Sec 23	1381819	2160980	-155.4089	59.9079	285	
GH13-BU	GH12-372	566973	PEBBLE BEACH 5738		T3S	R36W	NW1/4, NW1/4, Sec 24	1382582	2160550	-155.4047	59.9068	300	
GH13-BV	GH12-373	566970	PEBBLE BEACH 5639		T3S	R36W	SE1/4, NW1/4, Sec 24	1383963	2159874	-155.3971	59.9050	225	
GH13-EQ	GH12-374	566971	PEBBLE BEACH 5640		T3S	R36W	SW1/4, NE1/4, Sec 24	1385251	2158935	-155.3899	59.9025	135	
GH13-BW	GH12-375	566967	PEBBLE BEACH 5540		T3S	R36W	NW1/4, SE1/4, Sec 24	1385795	2158368	-155.3869	59.9010	145	
GH13-AW	GH12-376	642418	PEB WB 7		T3S	R36W	SE1/4, NW1/4, Sec 34	1373312	2149137	-155.4538	59.8750	310	
GH13-AX	GH12-377	642418	PEB WB 7		T3S	R36W	SW1/4, NW1/4, Sec 34	1372066	2149333	-155.4606	59.8755	240	
GH13-AY	GH12-378	642417	PEB WB 6		T3S	R36W	SE1/4, NE1/4, Sec 33	1371290	2149535	-155.4648	59.8760	305	
GH13-AZ	GH12-379	642417	PEB WB 6		T3S	R36W	SW1/4, NE1/4, Sec 33	1369837	2149720	-155.4727	59.8764	215	
GH13-AU	GH12-380	642415	PEB WB 4		T3S	R36W	NW1/4, SE1/4, Sec 34	1375482	2148488	-155.4419	59.8734	345	
GH13-AV	GH12-381	642418	PEB WB 7		T3S	R36W	SE1/4, NW1/4, Sec 34	1374200	2149147	-155.4489	59.8751	300	
GH13-AT	GH12-382	642414	PEB WB 3		T3S	R36W	NW1/4, SW1/4, Sec 34	1372932	2148391	-155.4557	59.8729	420	
GH13-AQ	GH12-383	642414	PEB WB 3		T3S	R36W	SW1/4, SW1/4, Sec 34	1372991	2146587	-155.4552	59.8680	250	
GH13-BD	GH12-384	642446	PEB WB 35		T3S	R36W	SE1/4, NE1/4, Sec 14	1382565	2165099	-155.4053	59.9192	160	
GH13-H	GH12-385	566985	PEBBLE BEACH 6038		T3S	R36W	SW1/4, NW1/4, Sec 13	1383048	2165360	-155.4027	59.9199	145	
GH13-BA	GH12-386	566985	PEBBLE BEACH 6038		T3S	R36W	SW1/4, NW1/4, Sec 13	1383567	2165041	-155.3998	59.9191	165	

Notes

1 - Geotechnical boreholes: The "S" designation at the end of the Post Site ID means that the borehole was drilled using Sonic Drilling methods. If there is no "S" in the ID it was drilled using Mud Rotary methods.

Figures

Figure 1 Location Map – PLP Claim Blocks

Figure 2 Diamond Drill Locations – PLP Claim Blocks

Figure 3 Geotechnical Drill Locations – PLP Claim Blocks

Figure 4 Geotechnical Drill Locations – PLP Claim Block
Rocky Cove

N.0.0.09

N.0.0.69

152°00'W

153°00'W

154°00'W

155°00'W

156°00'W

152°00'W

153°00'W

154°00'W

155°00'W

156°00'W

Homer

Cook Inlet

Williamsport

PLP-Rocky Cove Claims

Nondalton

Iliamna Airport

Newhalen

Kokhanok

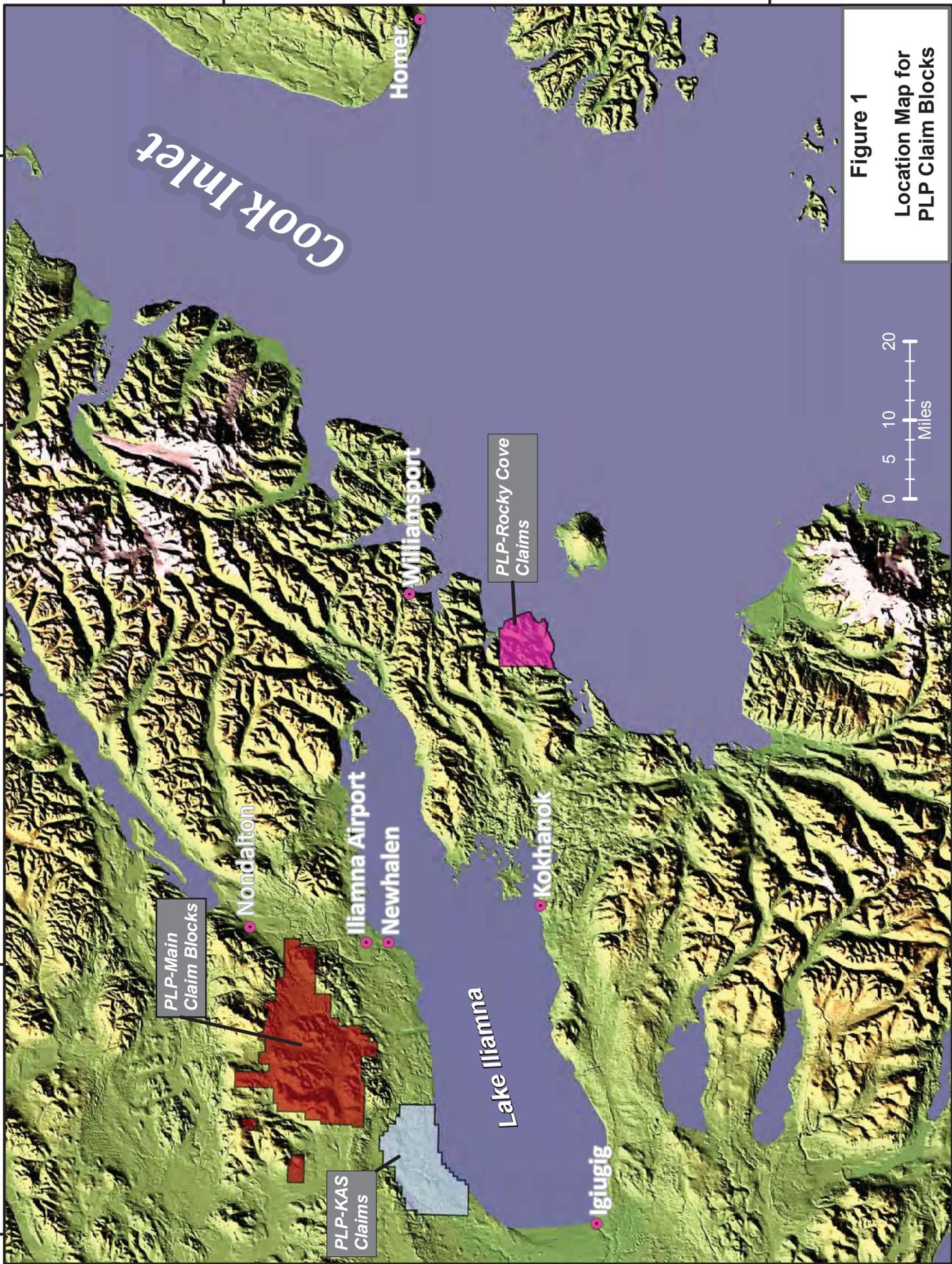
PLP-Main Claim Blocks

Lake Iliamna

PLP-KAS Claims

Igiugig

Figure 1
Location Map for
PLP Claim Blocks



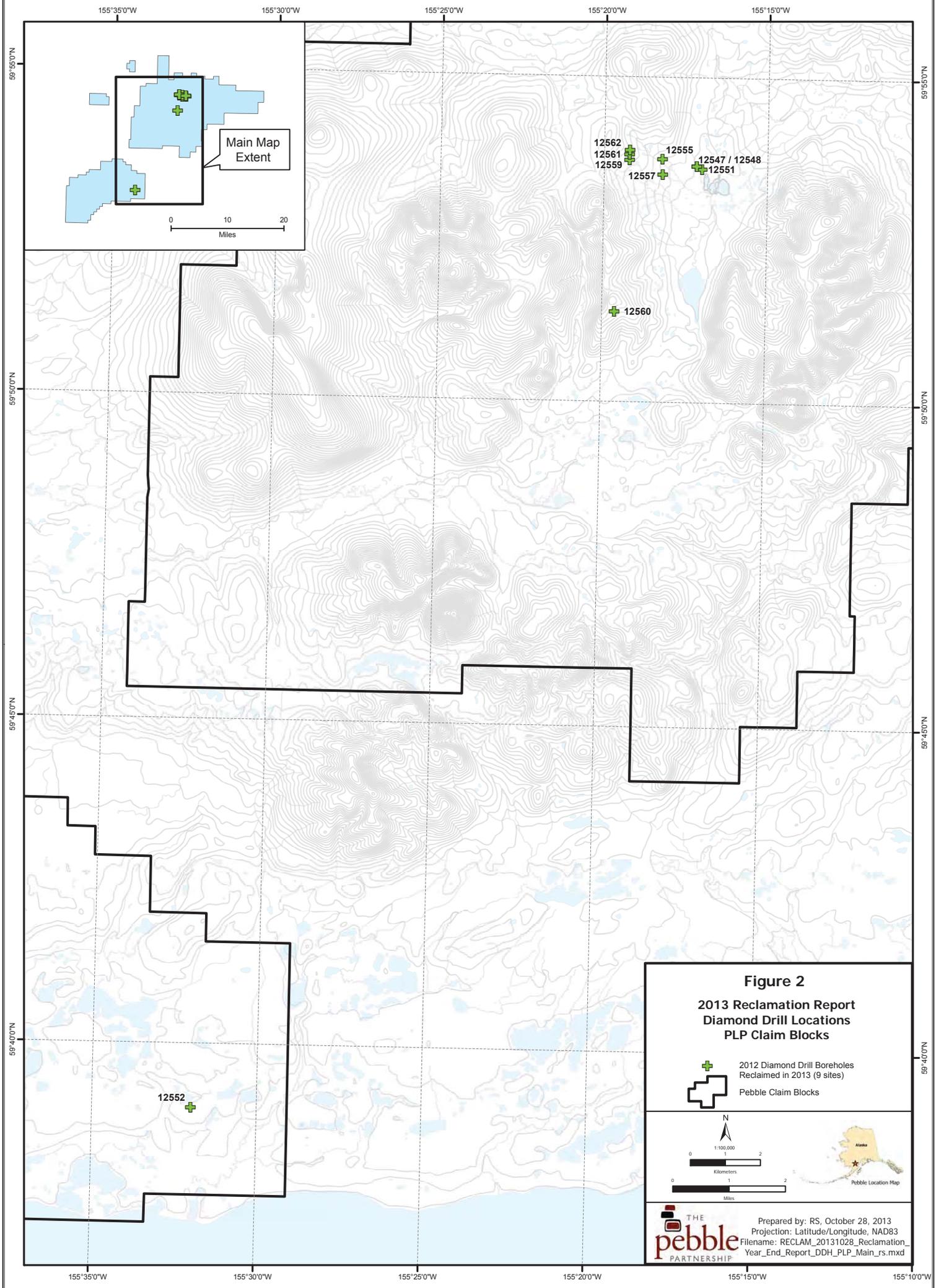
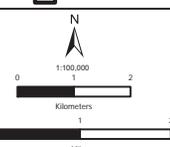


Figure 2

**2013 Reclamation Report
Diamond Drill Locations
PLP Claim Blocks**

-  2012 Diamond Drill Boreholes Reclaimed in 2013 (9 sites)
-  Pebble Claim Blocks



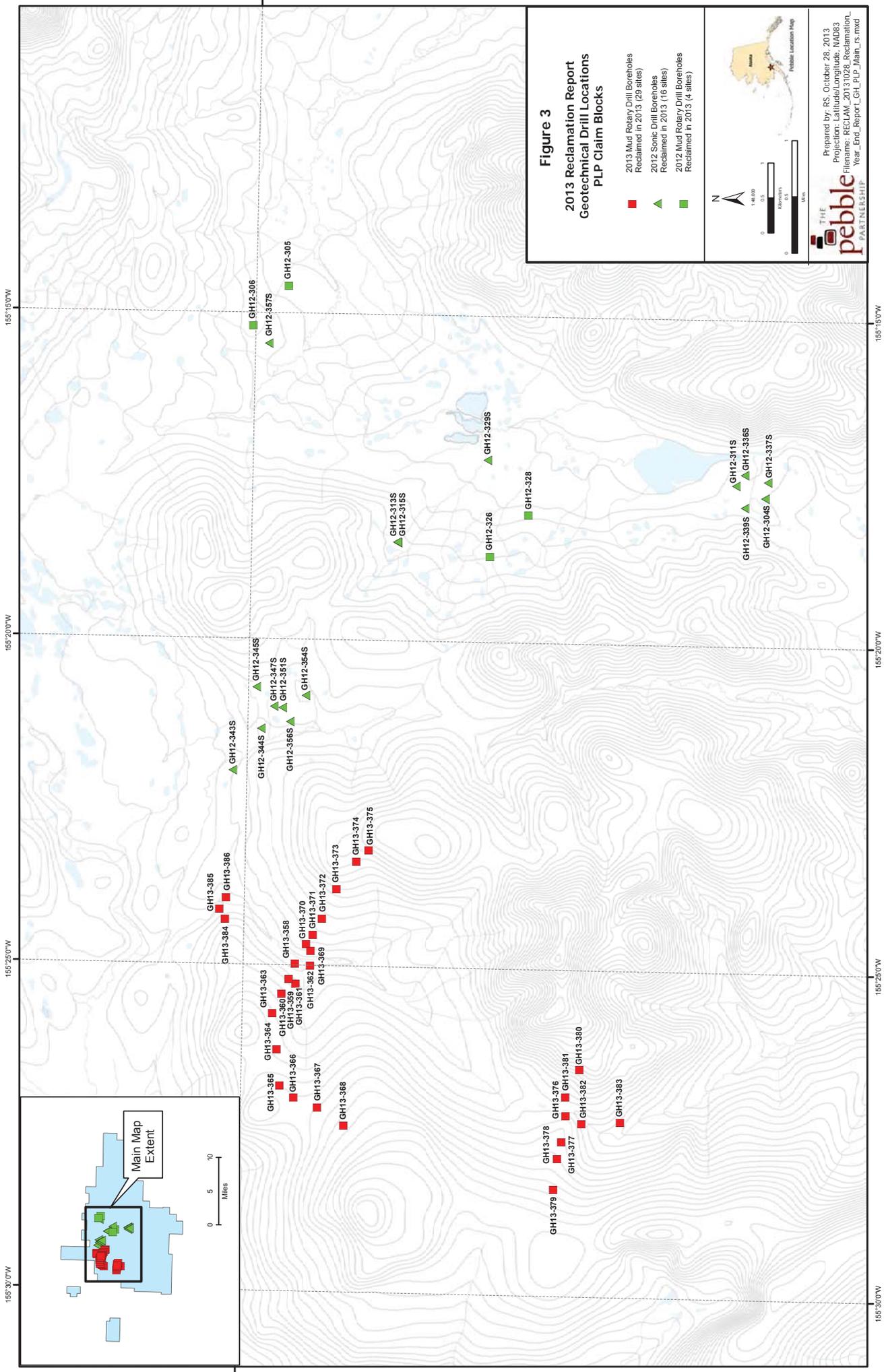
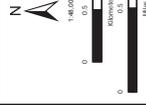


Figure 3
2013 Reclamation Report
Geotechnical Drill Locations
PLP Claim Blocks

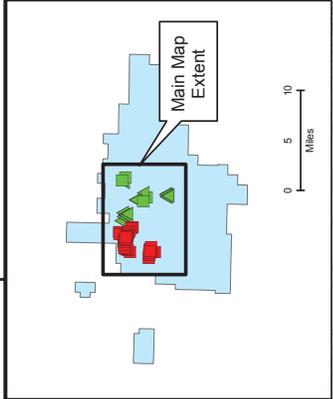
- 2013 Mud Rotary Drill Boreholes Reclaimed in 2013 (29 sites)
- ▲ 2012 Sonic Drill Boreholes Reclaimed in 2013 (16 sites)
- 2012 Mud Rotary Drill Boreholes Reclaimed in 2013 (4 sites)



Prepared by: RS, October 28, 2013
 Projection: Latitude/Longitude, NAD83
 Filename: REC_LAM_20131028_Reclamation_Year_End_Report_GH_LUP_Main_rs.mxd

THE pebble PARTNERSHIP

Public Location Map



153°40'0"W

153°45'0"W

153°50'0"W

153°55'0"W

153°40'0"W

153°45'0"W

153°50'0"W

153°55'0"W

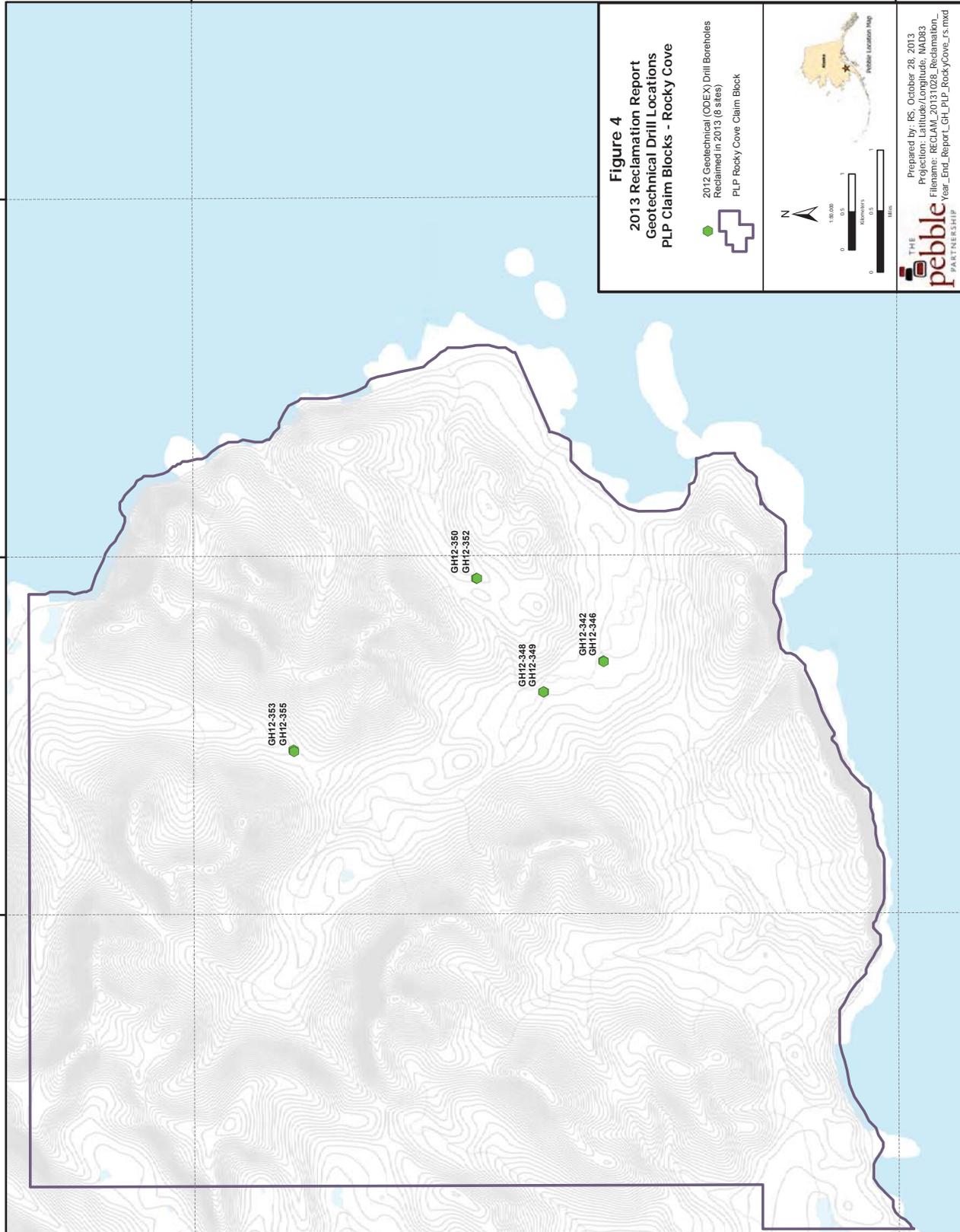
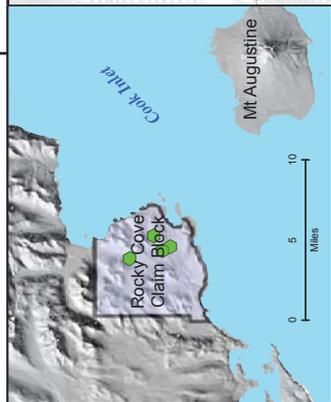


Figure 4
2013 Reclamation Report
Geotechnical Drill Locations
PLP Rocky Cove Claim Block

2012 Geotechnical (ODEX) Drill Boreholes
 Reclaimed in 2013 (8 sites)

PLP Rocky Cove Claim Block

North arrow pointing up. Scale bars are provided in feet (0 to 1,000) and miles (0 to 1).

A small map of Alaska with a star indicating the location of the Rocky Cove Claim Block in the south-central part of the state.

Prepared by: RS, October 28, 2013
 Projection: Latitude/Longitude, NAD83
 Filename: RECLAIM_20131028_Reclamation_Year_Envi_Report_GPL_PLP_RockyCove_1.mxd

THE pebble PARTNERSHIP



Appendix A

Representative Photographs of Typical Reclaimed Sites



Photo 1: DDH 12551 – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 24 June 2013; Looking East.



Photo 2: DDH 12551 – Photo Taken Post Reclamation on 25 June 2013; See Photo 1 for Reference; Looking East.



Photo 3: DDH 12555 – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 10 October 2012; Looking East.



Photo 4: DDH 12555 – Photo Taken Post Reclamation on 12 August 2013; See Photo 3 for Reference; Looking East.



Photo 5: DDH 12559 – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 30 June 2013; Looking Northeast.



Photo 6: DDH 12559 – Photo Taken Post Reclamation on 18 July 2013; See Photo 7 for Reference; Looking North.



Photo 7: DDH 12561 – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 28 June 2013; Looking East.



Photo 8: DDH 12561 – Photo Taken Post Reclamation on 18 July 2013; See Photo 7 for Reference; Looking East.



Photo 9: DDH 12562 – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 26 June 2013; Looking West.



Photo 10: DDH 12562 – Photo Taken Post Reclamation on 21 July 2013; See Photo 9 for Reference; Looking West.



Photo 11: GH12-304S – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 25 September 2012; Looking South.



Photo 12: GH12-304S – Photo Taken Post Reclamation on 12 August 2013; See Photo 11 for Reference; Looking South.



Photo 13: GH12-313S – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 21 July 2013; Looking West.



Photo 14: GH12-313S – Photo Taken Post Reclamation on 15 August 2013; See Photo 13 for Reference; Looking West.



Photo 15: GH12-329S – Drilled 2012/ Reclaimed 2013; Photo Taken Post Drilling on 23 August 2012; Looking North.



Photo 16: GH12-329S – Photo Taken Post Reclamation on 24 June 2013; See Photo 15 for Reference; Looking North.

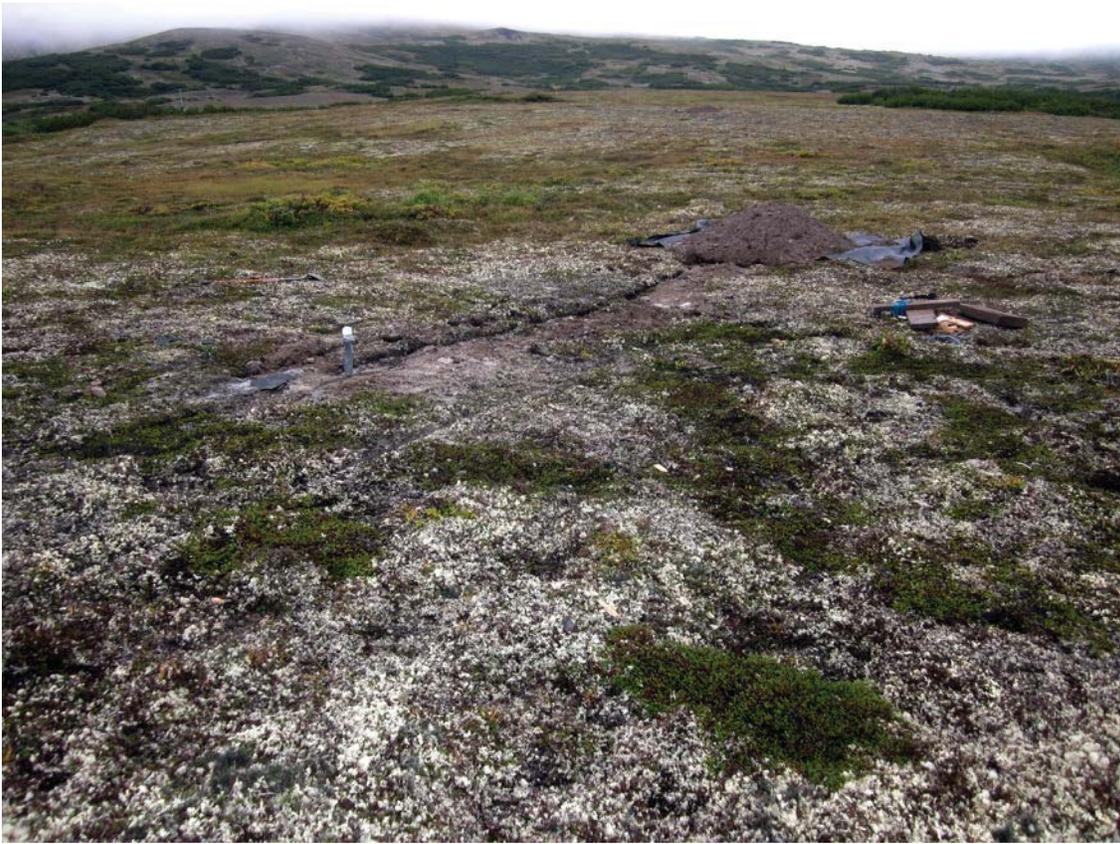


Photo 17: GH12-336S – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 31 August 2012; Looking West.

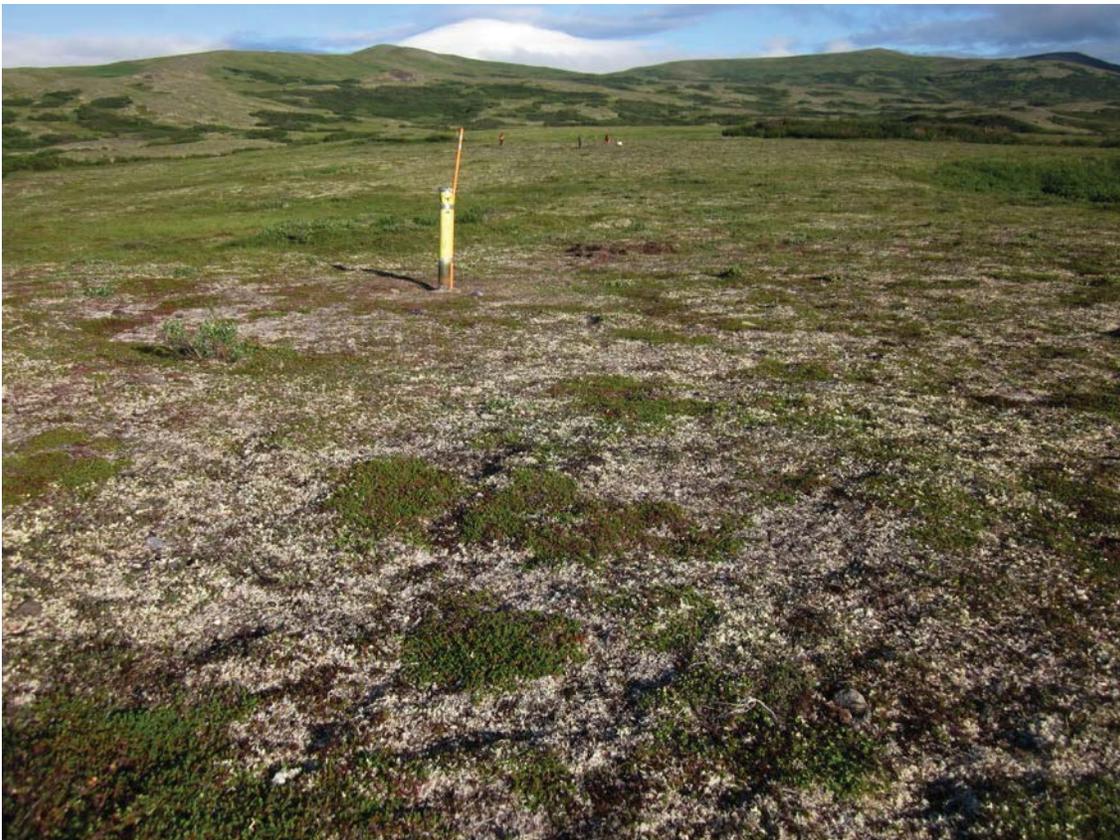


Photo 18: GH12-336S – Photo Taken Post Reclamation on 20 July 2013; See Photo 17 for Reference; Looking West.



Photo 19: GH12-337S – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 25 September 2012; Looking East.



Photo 20: GH12-337S – Photo Taken Post Reclamation on 12 August 2013; See Photo 19 for Reference; Looking East.



Photo 21: GH12-356S – Drilled 2012 / Reclaimed 2013; Photo Taken Post Drilling on 4 July 2013; Looking East.

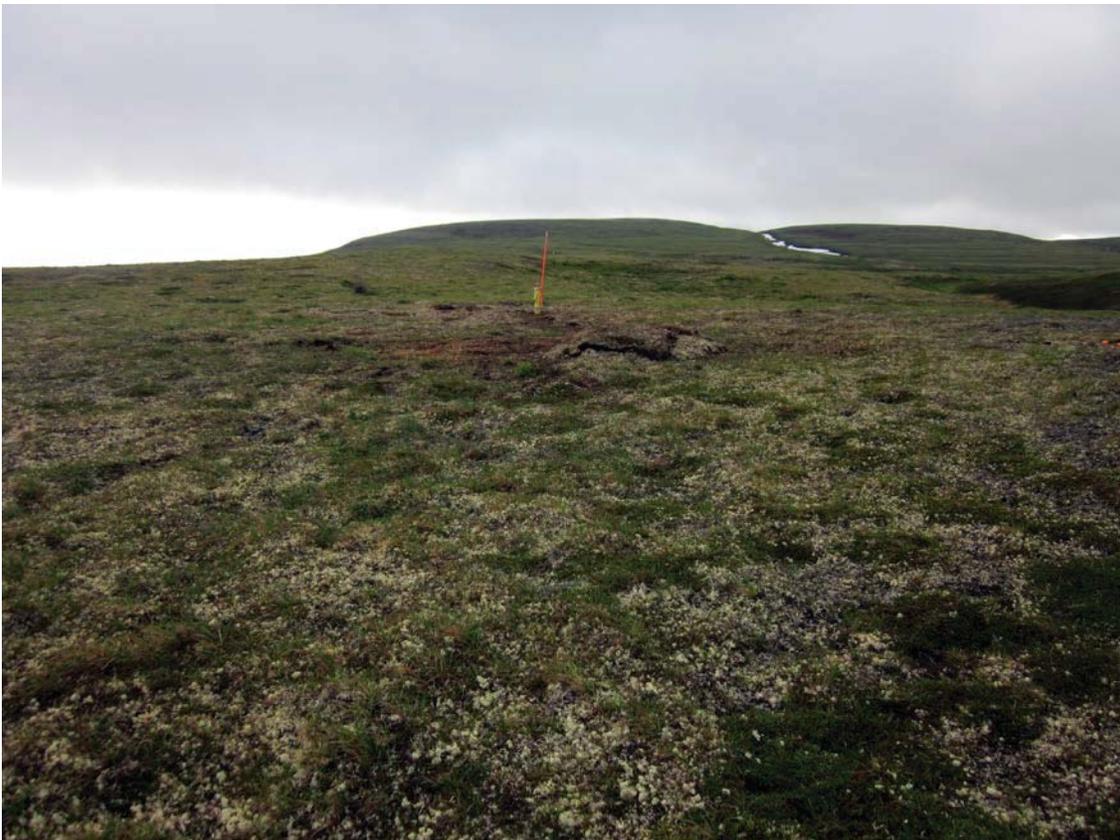


Photo 22: GH12-356S – Photo Taken Post Reclamation on 5 July 2013; See Photo 21 for Reference; Looking East.



Photo 23: GH13-358 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 9 July 2013; Looking West.



Photo 24: GH13-358 – Photo Taken Post Reclamation on 12 July 2013; See Photo 23 for Reference; Looking West.



Photo 25: GH13-359 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 7 July 2013; Looking North.



Photo 26: GH13-359 – Photo Taken Post Reclamation on 12 August 2013; See Photo 25 for Reference; Looking North.



Photo 27: GH13-360 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 7 July 2013; Looking West.



Photo 28: GH13-360 – Photo Taken Post Reclamation on 7 July 2013; See Photo 27 for Reference; Looking West.



Photo 29: GH13-361 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 7 July 2013; Looking East.



Photo 30: GH13-361 – Photo Taken Post Reclamation on 12 August 2013; See Photo 29 for Reference; Looking East.



Photo 31: GH13-362 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 8 July 2013; Looking West.



Photo 32: GH13-362 – Photo Taken Post Reclamation on 12 August 2013; See Photo 31 for Reference; Looking West.



Photo 33: GH13-364 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 11 July 2013; Looking West.



Photo 34: GH13-364 – Photo Taken Post Reclamation on 11 July 2013; See Photo 33 for Reference; Looking West.



Photo 35: GH13-369 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 6 August 2013; Looking North.



Photo 36: GH13-369 – Photo Taken Post Reclamation on 6 August 2013; See Photo 35 for Reference; Looking North.



Photo 37: GH13-371 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 6 August 2013; Looking East.

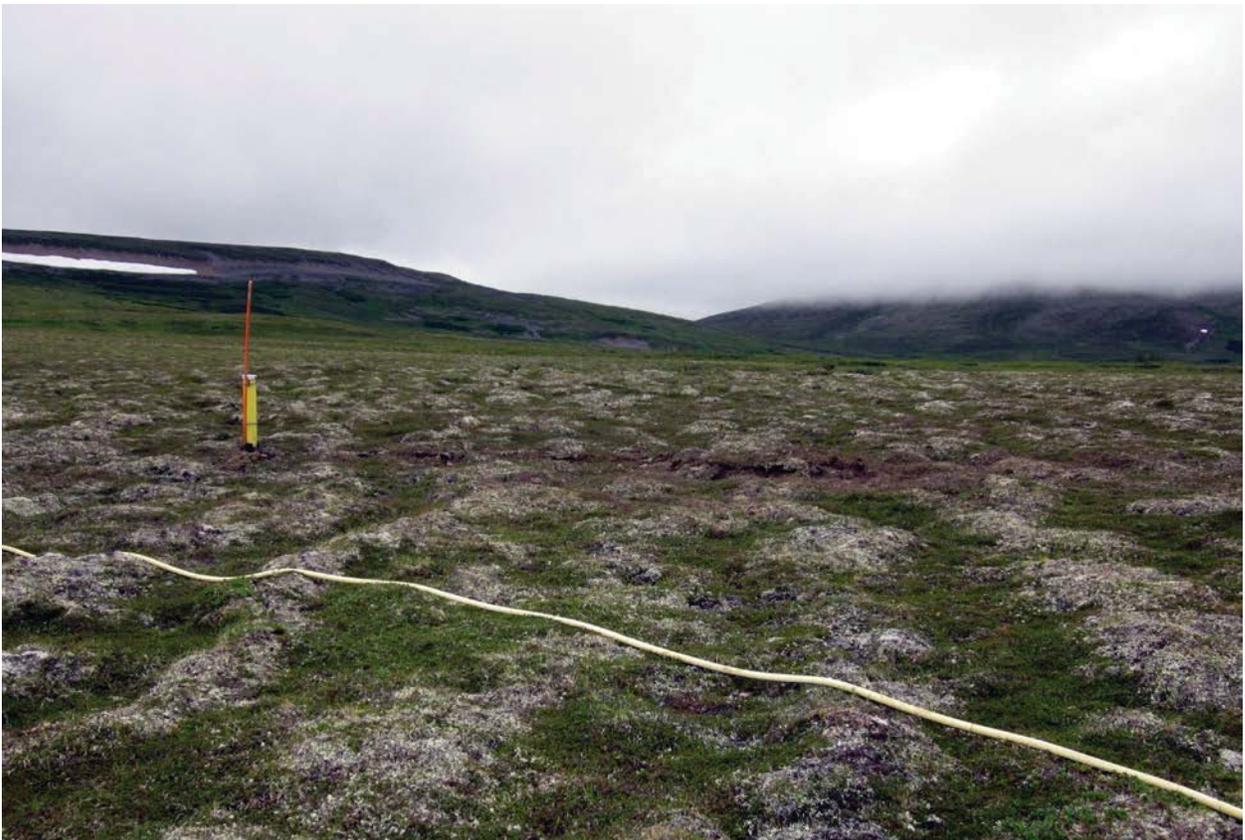


Photo 38: GH13-371 – Photo Taken Post Reclamation on 7 August 2013; See Photo 37 for Reference; Looking East.



Photo 39: GH13-373 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 6 August 2013; Looking North.



Photo 40: GH13-373 – Photo Taken Post Reclamation on 1 September 2013; See Photo 39 for Reference; Looking North.



Photo 41: GH13-374 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 7 August 2013; Looking East.



Photo 42: GH13-374 – Photo Taken Post Reclamation on 1 September 2013; See Photo 41 for Reference; Looking East.



Photo 43: GH13-376 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 30 August 2013; Looking South.



Photo 44: GH12-376 – Photo Taken Post Reclamation on 30 August 2013; See Photo 43 for Reference; Looking South.



Photo 45: GH13-378 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 29 August 2013; Looking North.



Photo 46: GH13-378 – Photo Taken Post Reclamation on 30 August 2013; See Photo 45 for Reference; Looking North.

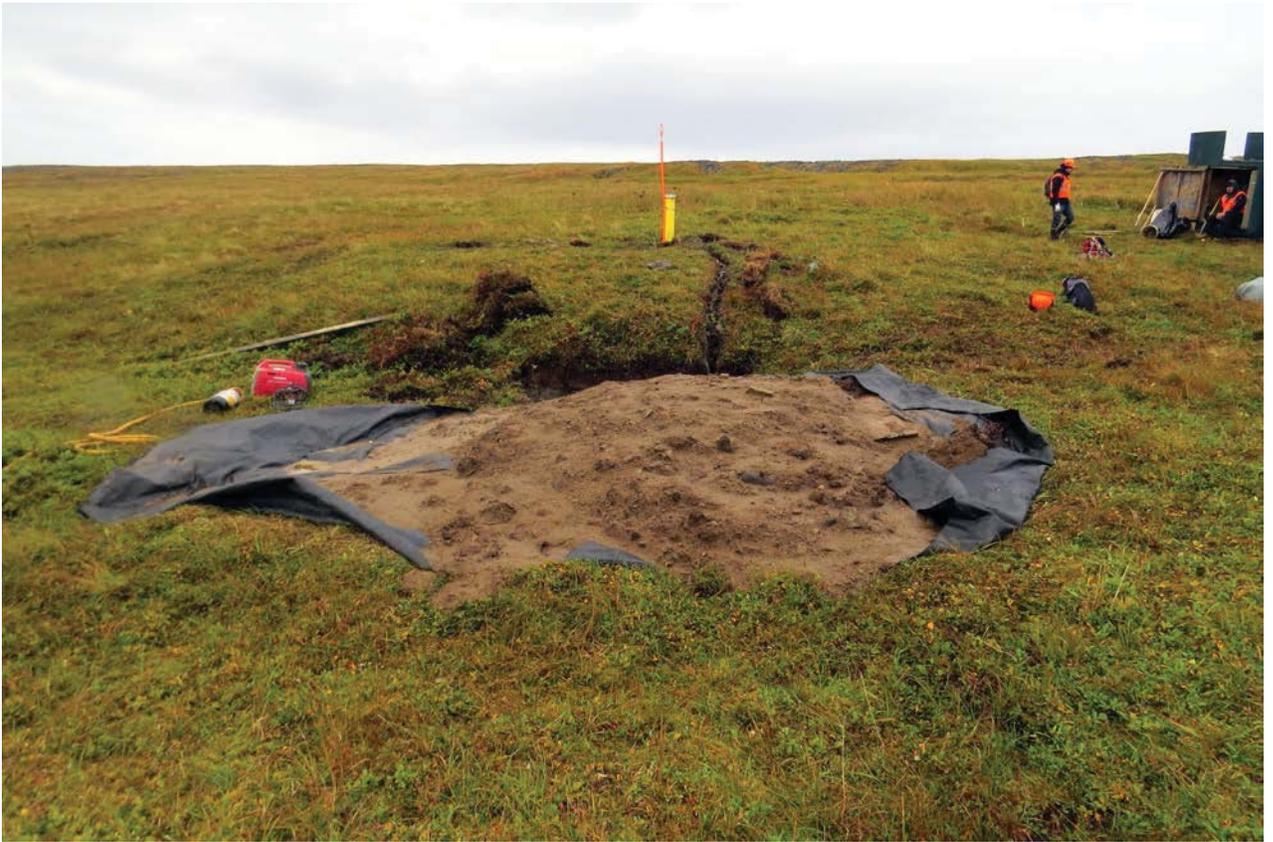


Photo 47: GH13-379 – Drilled / Reclaimed 2013; Photo Taken Post Drilling on 29 August 2013; Looking West.



Photo 48: GH13-379 – Photo Taken Post Reclamation on 30 August 2013; See Photo 47 for Reference; Looking West.



Photo 49: GH12-348 – Drilled and Monitoring Well Installed 2012 / Reclaimed 2013; Photo Taken Post Drilling on 23 October 2013; Looking East.



Photo 50: GH12-348 – Photo Taken Post Well Decommissioning and Reclamation on 23 October 2013; See Photo 49 for Reference; Looking East.



Appendix B

2013 Annual Reclamation Statement

**2013 ANNUAL RECLAMATION STATEMENT
Placer Mining and Suction Dredging**

APMA # A136118

Complete and return this statement by December 31, 2013. If you did not operate, fill in name, check bottom box, sign and return form.

In accordance with AS 27.19 (Reclamation Act):

I, Tim Havey, Manager - Environmental hereby file an annual reclamation statement for the 2013 mining operation described in subject Application for Permits to Mine in Alaska. **(Submission of this statement does not constitute reclamation approval.)**

Volume of material disturbed in 2013: NA cubic yards (includes strippings and processed material).

Sluice days last season: NA Cubic yards of material processed daily: NA Annually: NA

Total acreage disturbed in 2013: 0.06 acres. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds). Federal operators should include area of camp and access roads.

Length NA feet and Width NA feet of stream diversion.

Stream diversion: [] Temporary [] Permanent (check one).

Total area reclaimed in 2013: 0.18 acres. Note: includes 0.12 acres disturbed in 2012 field season.

Total unreclaimed acres: 0.00. (This should match "total acreage currently disturbed" on the Reclamation/Signature page of your 2014 APMA)

For the areas reclaimed, the following reclamation measures were used (check only measures that were used). You must include photographs or videotapes of the completed reclamation work:

- Spread and contoured ~~tailings~~ disturbed mineral soil.
- Spread topsoil, vegetation, overburden muck or fines on the surface of contoured ~~tailings~~ disturbed mineral soil.
- Reestablished flood plain with stream channel in stable position
- Backfilled and reclaimed temporary stream diversions
- Camp removed, cleaned up and left free of debris

Other reclamation measures taken: Tailings typically imply materials left over after the process of separating the valuable fraction from the worthless fraction of an ore while mining. Given that the Pebble Project is currently in the exploration phase there are no tailings generated; therefore, in two instances above the word "tailings" has been replaced with the words "disturbed mineral soil."

I did not operate in 2013 and therefore did not conduct reclamation.

Signed

4 April 2014

Date

Note: Submittal of this form meets the Army Corps of Engineers requirement for an annual report.



Appendix C

Certificate of Author

CERTIFICATE OF AUTHOR

Jeffrey B. Norberg, B.Sc., Geo.
JBN Consultants, Inc.
PO Box 772422
Eagle River, Alaska 99577
Phone 907-240-2040, jbn.consultants.inc@gmail.com

I, Jeff Norberg B.Sc., of the city of Eagle River, Alaska hereby certify that:

1. I am President of JBN Consultants Inc, with a business office in Eagle River, Alaska. I was contracted by Pebble Limited Partnership to carry out site reclamation on the Pebble property, Alaska, USA in 2013.

2. I am a graduate of University of Arizona (B.Sc. Geology, 1993).

3. I have practiced my profession, as a Geologist, continuously since graduation. I have been involved at a senior level in environmental projects managing and implementing: on-site geological/ hydrogeological field investigations; construction/ remediation projects; and site audits for federal, state, municipal, and private sector clients throughout Alaska and the conterminous United States.

4. I am an Instructor for the Mining and Petroleum Training Service (MAPTS) program with the University of Alaska-Soldotna teaching Hazardous Waste Operations and Emergency Response (HAZWOPER) courses throughout the state.

5. I was a Regulatory Project Manger for Alaska Department of Environmental Conservation (Anchorage) between 2004 and 2007. My responsibilities included technical review and provided State approval for environmental projects; negotiations; community relations; and site inspections to ensure that site work was completed in accordance with Alaska State and Federal laws, regulations, and guidance to mitigate risk to human and ecological receptors.

5. I am author of this report entitled “2013 Annual Reclamation Report – The Pebble Project Iliamna, Alaska.”

6. I have worked as a contractor on the Pebble property since September 2007 and have been actively involved in the drilling programs since that time.

7. I am not aware of any material fact or change with respect to the subject matter of this Report, which is not reflected in the Report, and the omission of which would make the Report misleading.

8. I consent to the use of this report as the Annual Reclamation Report for the year-end filing of Pebble Limited Partnership.

Signed in Eagle River, Alaska on the 4th day of April, 2014

/s/ Jeffrey B. Norberg, President JBN Consultants, Inc.

Jeffrey B. Norberg, B.Sc. Geo.