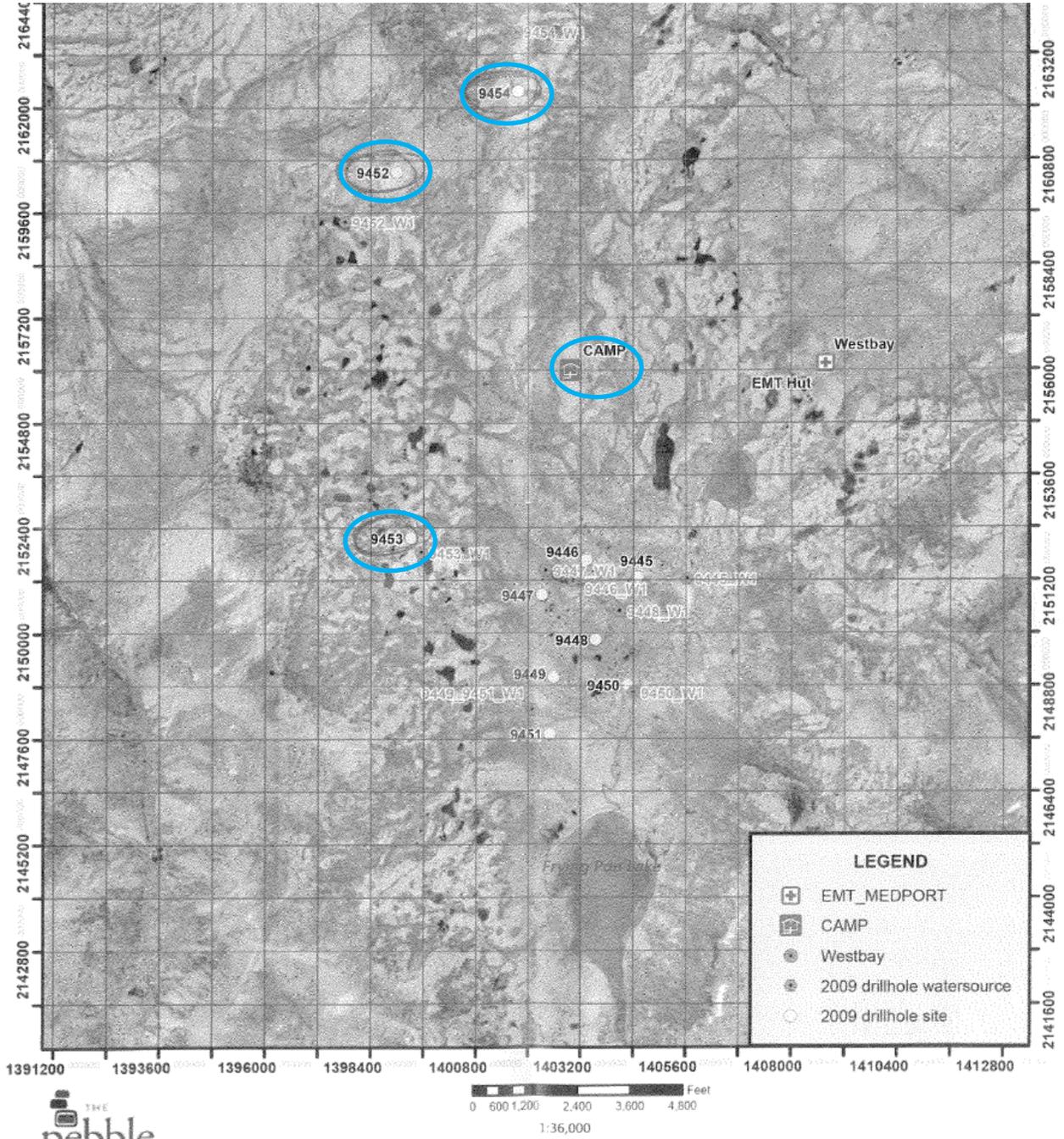


Field Monitoring Report -- Pebble Copper/Gold Exploration Project --

Personnel:	Inspection Date: August 19, 2009
Rick Fredericksen, Allan Nakanishi,	Site Contact: Gernot Wober
Travis Gingerich, Ruth Hamilton Heese	APMA #: A096118
	■ Wildlife Observed:
■ Inspection Type:	○ Bear: none observed
○ Complete: Drill rig #2, #3, and #4; abandoned drill sites, the staging area (camp); Big Wiggly fuel depot	○ Caribou: approx. 6 one mile NE of Frying Pan Lake
○ Partial:	○ Moose: none observed
○ Follow-up:	○ Waterfowl: two swans on edge of Big Wiggly Lake.
○ Response to Public Complaint:	○ Fish: none observed
	○ Other: ground squirrels
■ Weather Conditions:	
○ Temperature: 55 degrees F	■ Water level at Frying Pan Lake:
○ Wind: 2-3 knots	○ Observed inflow: ordinary high water
○ Precipitation: none	○ Observed outflow: ordinary high water
○ Visibility: 10-15 miles	
○ Sky Conditions: broken overcast (4800')	■ Water level at Big Wiggly Lake:
○ Ground Conditions: dry to wet	○ Ordinary high water
<p>Comments: Three exploration drill rigs were operating NW and SW peripheral to the resource area. The sites were all orderly, clean, and free of litter. All drilling operations appeared to be in compliance with associated water use and withdrawal permits (TWUP A2009-21 and FH 09-II-0079).</p>	
<p>Recommendations: Continue to provide staff with updated operations map and inform staff of any new developments or changes in operational plans. Changes to drilling fluid should be communicated to DNR prior to use.</p>	
<p>Actions Needed: Continue to provide updated maps as work progresses.</p>	

Location Map

(Inspected Sites Circled in Blue)




 THE pebble PARTNERSHIP
 Alaska State Plane Zone 5 U.S. ft. NAD83

2009 Drillsites & Watersources

Prepared by: RS, August 19, 2009
 Filepath: \Tech\ArcGIS\DNR_permitting

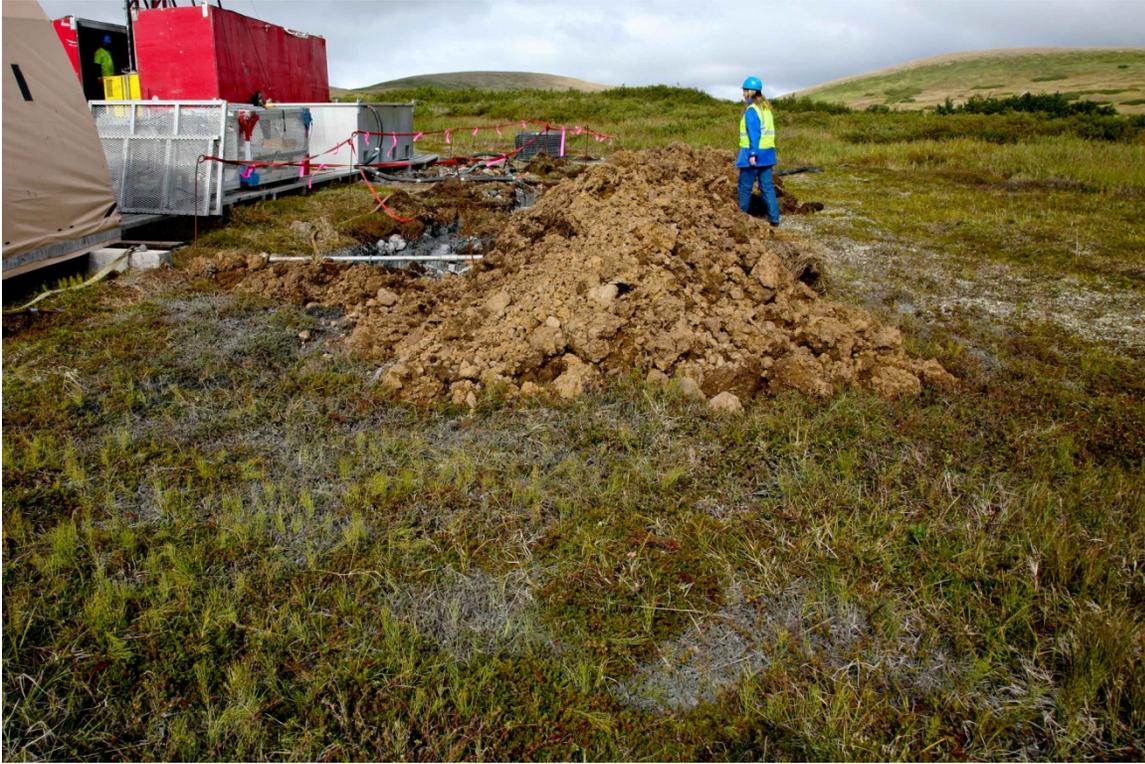
Drill Hole/Site No.: 9454	Rig No.: 2
Activity: Exploration drilling - coring	Date: 8-19-09
■ Condition of Drilling Site: good <ul style="list-style-type: none"> ○ Distance from waterbody: ~100 feet from small drainage ○ Location of fuel storage: onsite with secondary containment ○ Sorbent pads present: yes ○ Tundra mat: yes ○ Pipe off tundra: yes ○ Litter: none ○ Trash containment: yes ○ Sanitary facilities: yes ○ Any spills or staining: no ○ General impression: good 	■ Sump Pit (continued): <ul style="list-style-type: none"> ○ Location and extent of discharged material: Infiltration at excavated sump. ○ Topsoil, muck, tundra stockpiled: 5 cubic yards ○ Location of secondary sump pit: N/A ○ Hose color: none
■ Drilling Activity: yes <ul style="list-style-type: none"> ○ Drill additives in use: yes ○ Water recirculation: yes ○ Water discharged: yes ○ Artesian zone encountered: no 	■ Drill Water Supply: <ul style="list-style-type: none"> ○ Source: small stream ○ Location: ~700 ft. north ○ Adequate water flow and depth for fish passage in streams: yes ○ Evidence of significant impacts to riparian vegetation or stream banks: no ○ Relative water level: moderate to high ○ General impression of water body, i.e. clear, turbid, tannic: clear ○ Intake structure: yes ○ Structure clear of debris: yes ○ Mesh size: 1mm x 12mm ○ Submerged: yes ○ Pump location to source: < 50 feet
■ Sump Pit: <ul style="list-style-type: none"> ○ Location: adjacent to rig ○ Discharge trench: yes ○ Dimensions of pit: 16' x 5' ○ In use: yes 	<ul style="list-style-type: none"> ○ Catch basin for fuel supply: yes ○ Sorbent pads: yes (2 types) ○ Hose color: yellow



Drill Rig #2- Drill Hole Site #9454.



Drill Rig #2- Drill Hole Site #9454. Sump near drill.



Drill Rig #2- Drill Hole Site #9454. Sump near drill.



Drill Rig #2- Drill Hole Site #9454. Water source, generator, and pump.



Drill Rig #2- Drill Hole Site #9454. "Quik Gel" drilling mud stored in container.



Drill Rig #2- Drill Hole Site #9454. Soybean oil, lubricant, and "Purevis" in containment.

Drill Hole/Site No.: 9452	Rig No.: 3
Activity: Exploration drilling - coring	Date: 8-19-09
<ul style="list-style-type: none"> ■ Condition of Drilling Site: good <ul style="list-style-type: none"> ○ Distance from waterbody: >1,000 feet ○ Location of fuel storage: onsite with secondary containment ○ Sorbent pads present: yes ○ Tundra mat: yes ○ Pipe off tundra: yes ○ Litter: none ○ Trash containment: yes ○ Sanitary facilities: yes ○ Any spills or staining: no ○ General impression: good 	<ul style="list-style-type: none"> ■ Sump Pit (continued): <ul style="list-style-type: none"> ○ Location and extent of discharged material: Infiltration at excavated sump. ○ Topsoil, muck, tundra stockpiled: 4 cubic yards ○ Location of secondary sump pit: N/A ○ Hose color: none
	<ul style="list-style-type: none"> ■ Drill Water Supply: <ul style="list-style-type: none"> ○ Source: Small lake/pond ○ Location: ~500 ft. southwest ○ Adequate water flow and depth for fish passage in streams: NA ○ Evidence of significant impacts to riparian vegetation or stream banks: no ○ Relative water level: moderate to high
<ul style="list-style-type: none"> ■ Drilling Activity: rig down awaiting parts <ul style="list-style-type: none"> ○ Drill additives in use: yes ○ Water recirculation: yes ○ Water discharged: yes ○ Artesian zone encountered: no 	<ul style="list-style-type: none"> ○ General impression of water body, i.e. clear, turbid, tannic: clear ○ Intake structure: yes ○ Structure clear of debris: yes ○ Mesh size: 1mm x 12mm ○ Submerged: yes ○ Pump location to source: 50 feet
<ul style="list-style-type: none"> ■ Sump Pit: <ul style="list-style-type: none"> ○ Location: adjacent to rig ○ Discharge trench: yes ○ Dimensions of pit: 17' x 4' ○ In use: yes 	<ul style="list-style-type: none"> ○ Catch basin for fuel supply: yes ○ Sorbent pads: yes (2 types) ○ Hose color: black



Drill Rig #3 - Drill Hole Site #9452.



Drill Rig #3 - Drill Hole Site #9452. Insulated pipe leading to water source in background.



Drill Rig #3 - Drill Hole Site #9452. Sump excavation near drill rig.



Drill Rig #3 - Drill Hole Site #9452. Excavator.



Drill Rig #3 - Drill Hole Site #9452. Poly Drill "Purevis" drilling fluid.

Drill Hole/Site No.: 9453	Rig No.: 4
Activity: Exploration drilling - coring	Date: 8-19-09
<ul style="list-style-type: none"> ■ Condition of Drilling Site: good <ul style="list-style-type: none"> ○ Distance from waterbody: <100 feet ○ Location of fuel storage: onsite with secondary containment ○ Sorbent pads present: yes ○ Tundra mat: yes ○ Pipe off tundra: yes ○ Litter: none ○ Trash containment: yes ○ Sanitary facilities: yes ○ Any spills or staining: no ○ General impression: good 	<ul style="list-style-type: none"> ■ Sump Pit (continued): <ul style="list-style-type: none"> ○ Location and extent of discharged material: Infiltration at excavated sump. Land application for sump overflow 400' downhill on land. ○ Topsoil, muck, tundra stockpiled: 6 cubic yards ○ Location of secondary sump pit: N/A ○ Hose color: none
<ul style="list-style-type: none"> ■ Drilling Activity: yes <ul style="list-style-type: none"> ○ Drill additives in use: yes ○ Water recirculation: yes ○ Water discharged: yes ○ Artesian zone encountered: no 	<ul style="list-style-type: none"> ■ Drill Water Supply: <ul style="list-style-type: none"> ○ Stream, lake, kettle pond: Small Lake ○ Location: ~300 ft. southeast ○ Adequate water flow and depth for fish passage in streams: NA ○ Evidence of significant impacts to riparian vegetation or stream banks: no ○ Relative water level: moderate to high ○ General impression of water body, i.e. clear, turbid, tannic: clear ○ Intake structure: yes ○ Structure clear of debris: yes ○ Mesh size: 1mm x 12mm ○ Submerged: yes ○ Pump location to source: 25 feet
<ul style="list-style-type: none"> ■ Sump Pit: <ul style="list-style-type: none"> ○ Location: adjacent to rig ○ Discharge trench: yes ○ Dimensions of pit: 20' x 5' ○ In use: yes 	<ul style="list-style-type: none"> ○ Catch basin for fuel supply: yes ○ Sorbent pads: yes (2 types) ○ Hose color: brown



Drill Rig #4- Drill Hole Site #9453.



Drill Rig #4- Drill Hole Site #9453. Sump adjacent to drill.



Drill Rig #4- Drill Hole Site #9453. Water Supply Intake



Drill Rig #4- Drill Hole Site #9453. Excess drilling-water discharge area.



Drill Rig #4- Drill Hole Site #9453. Poly Drill "Purevis" drilling fluid.

Monitoring Well No.: GH-05-59	Date: 8/19/09
■ Plugged: unable to determine	
■ Cemented: unable to determine	
■ Standing pipe: yes	
■ Sump pit filled in: yes	
■ Water discharge trench filled in: yes	
■ Site revegetated: yes	
■ Artesian water present: no	
■ Any spills or staining: no	
■ Comments/General impression: Overall the site was in very good condition and can be considered completely reclaimed. A small amount of hardened cement was lying near four feet from the collar.	



Site #GH-05-59- Monitoring Well- Reclamation Complete

Monitoring Well No.: GH-08-123	Date: 8/19/09
<ul style="list-style-type: none"> ■ Plugged: no; piezometer tube present ■ Cemented: NA ■ Standing pipe: yes ■ Sump pit filled in: yes ■ Water discharge trench filled in: yes ■ Site revegetated: yes ■ Artesian water present: no ■ Any spills or staining: no ■ Comments/General impression: Site clean and no evidence of the drill site remaining. 	



#GH-08-123- Monitoring Well- Reclamation Complete



#GH-08-123- Monitoring Well Stickup.

Big Wiggly Lake Fuel Depot



Big Wiggly Lake. Fuel depot in distance.



Big Wiggly Lake fuel depot and dock



Big Wiggly Lake fuel depot and dock



Big Wiggly Lake fuel depot. Fuel tanks and containment.

Reclaimed Drill Sites



Area drilled in June 2009 -- very little evidence of disturbance except for drill collars.



Area drilled in June 2009 -- very little evidence of disturbance except for drill collars.

Equipment Staging Area "Camp"



Equipment staging area.



Equipment staging area. Fuel tank with secondary containment and generator.



Equipment staging area. Fuel tanks with secondary containment. Note: over-turned blue drum was empty.



Equipment Staging Area. Drill steel.