



Site Activities





Site Activities

1. Technical

- Site Operations (Iliamna)
- Field Operations (deposit area)
 - Drilling
 - » Infill
 - » Delineation
 - » Geotechnical
 - » Hydrogeological
 - Geophysics
 - Engineering Studies
 - Reclamation
 - Environmental Data Collection

2. Environmental

3. Socio-economic



Safety for our employees, contractors and the communities in which we operate is the priority...



TECHNICAL ACTIVITIES

Site Operations

- Iliamna base

Office support: 2,500 fixed wing flights

Lodging: 30,000 persons lodged

Logistics:
 1.7 million pounds of

freight

– Coreshack: 150,000 feet logged

– Core yard: 175,000 feet cut



TECHNICAL ACTIVITIES

Field Operations

- Helicopters: 8,500 hours
- Drilling (infill, delineation, geotechnical and hydrogeological): 140,000 feet
- Geophysical surveys
- Reclamation
- Environmental data collection

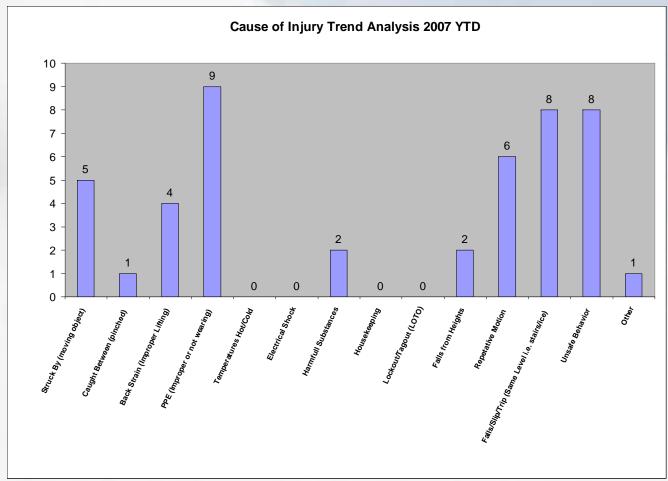


- Health and Safety Plan
 - General Information
 - Hazard and Risk Analysis
 - Personal Protective Equipment
 - Exposure monitoring
 - Drug and Alcohol Policy
 - Emergency response plans and protocols
 - Hazardous Materials transportation
 - Spill Prevention, Control and Countermeasures
 Plan
 - Hazcom (Hazard Communication) Program -MSDS



- Safety meetings
 - Miniature training sessions held weekly
 - Topic focus each month
 - Forum for group discussions and information sharing of accident and illness causes





- 31, 650 man days worked in 2007
- 46 incidents
- 3 medical aid
- Remainder first aid and near misses with no time loss

Drill Crews

MERSHIDrill operational 24 hours a day: 2 – 12 hour shifts

- Each drill crew consists of 1 experienced driller and 2 helpers
 Normal conditions 4 workers per drill rig
 Winter Conditions 6 workers per drill rig
- 3. Support field staff for moving fuel, tending water lines, supplies

 Day shift 4 workers

 Night shift 2 workers

 Emergency Response 2 EMT III
- 4. Transportation is by helicopter 205 for moves/crew change
 Astar for moves/crew change
 500D for moves
 R44 crew changes
- 5. At present there are 6 drills operating in the field:
 Drill crews:
 49 drillers/helpers/engineers
 Support Staff:
 8 workers

Minimum personnel in field $\frac{1}{57}$ directly related to drilling

pebble PARTNERSHIP

Fuel Transport

- 1. Each drill requires ~ 200 gallons of diesel fuel for 24 hours (9 drills X 200 = 1,800 gallons/day)
- 2. Options for transporting fuel to site:
 - by helicopter with maximum capacity of 118 gallons/trip
 - by fixed wing to Big Wiggly Lake 200 gallons/trip
- 3. All fuel transport and storage containers are double walled and placed inside bermed structures that can contain at least 120% of fuel stored inside the structures
- 4. Storage facility at Big Wiggly Lake contains sufficient fuel for 4-5 days drilling operations at current operation level
- 5. During winter activities require sufficient fuel at each drill for 2 days operation and an additional 2 days emergency shelter and water line pumping fuel for bad weather.



Shutdown and Reclamation

- 1. Hole Shutdown Hole Abandonment Procedures
- 2. Dismantle Drill Rig helicopter transport of all items to new site
- 3. Tundra Mats: Wooden platforms placed at high traffic impact areas around drill sites. Extremely effective at preventing the churning of the tundra. As many as 10 mats with interconnecting boardwalks are used at each drill site.
- 4. Waste management: Flyable dumpsters are located at each drill site. These dumpsters prevent miscellaneous trash from blowing away during helicopter loading or windy conditions.
- 5. Reclamation of drill site: (Reclamation Crew)
 - a. Pick up all litter and items not transported to new site
 - b. Fill in drill cutting sump and replace original topsoil
 - c. Rake and groom areas affected by tundra pad timbers
 - d. Seed areas of disturbance with grass if required.
 - e. Revisit site in several months time to assess effectiveness of reclamation and take remedial action if required.



Reclamation









Hole Abandonment

All drillholes are to be filled with hole abandonment grout from bottom to top. Using Volclay Grout: the manufacturers mixing recommendations are:

For HQ holes mix 2.5 bags per 100 feet For NQ holes mix 1.5 bags per 100 feet

Water

HQ 58 gallons per 100 feet NQ 36 gallons per 100 feet 4" hole 95 gallons per 100 feet

HOLE ABANDONMENT

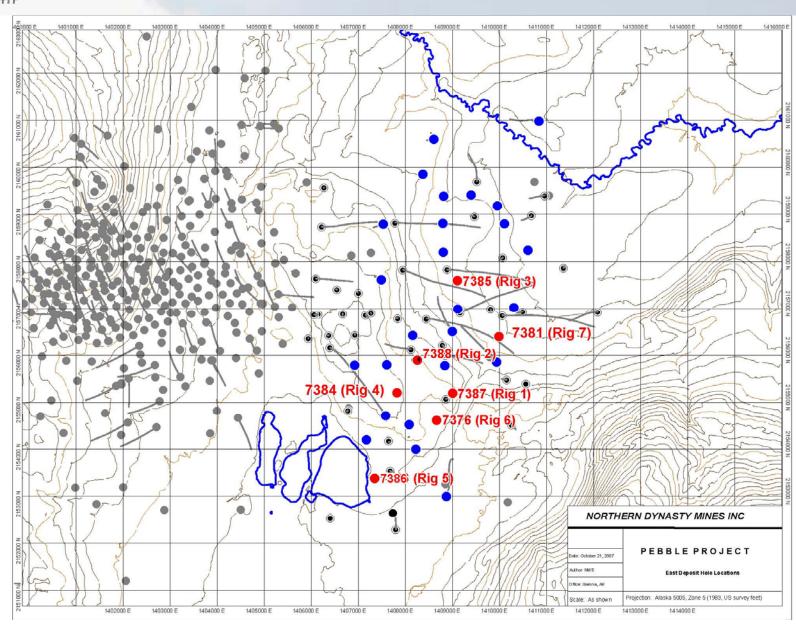
Prepare the correct mixture for 500 feet and put rods on the bottom of the hole
Pump mixture down inside of rods
Pull back 500 feet allowing mud to flow out of rods and displace water.
Flush rods with water to clean
Repeat process

FOR HOLES WITH ARTESIAN WATER

Place a hole plug above the aquifer
Put cement above the plug
Fill rest of hole with grout using the procedures above



Drill Hole Locations





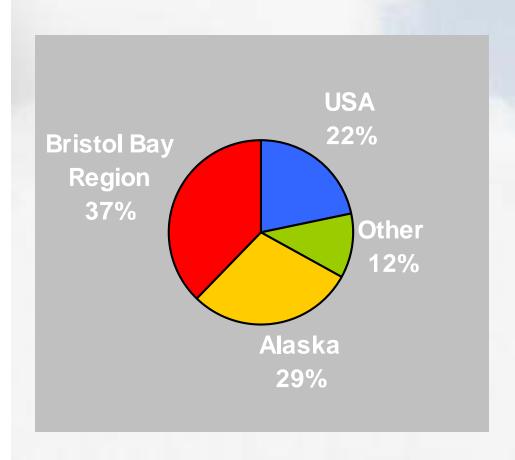
Socio-Economic Activities

- 1. Local Workforce Development
- 2. Local Business Development
 - Incinerator
- 3. Training
 - First Aid/CPR
 - Food Safe
 - Hazwopper
 - Helicopter Slinging
 - Bear Awareness
 - Helicopter Awareness
 - Communications
- 4. Community



Employment by Region

31,650 man days worked in 2007*

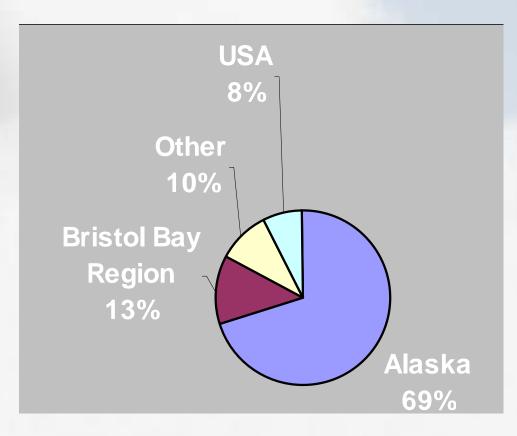


11,940 Bristol Bay Region 9,211 Alaskan 6828 USA 3663 Other

To October 20, 2007



Expenditure by Region



\$ 34,426,000 expended in 2007*

24,072,000 Alaskan 4,456,000 Bristol Bay Region 3,313,000 USA 2,585,000 Other

*Site expenditures only to October 20, 2007



Site Program - Summary

- 2007 drilling objectives
 - Safety
 - Permit compliance
 - Infill to support prefeasibility study
 - Delineate Pebble East
 - Helicopter support
- Engineering data collection
- Environmental baseline data
- Local hire
- Community support