## Fort Knox Mine Annual Meeting



Thursday, March 29, 2012



## 2011 by the Numbers

Employees	522
Lost Time Injuries	1
Federally Reportable Spills	1
Notices of Violation	0
Permit Exceedances	0
Tons Mined	34.6 million
Tons Milled	14.9 million
Gold Production	289,794 equivalent ounces

### Kinross Corporate Values

Putting people first

Outstanding corporate citizenship

High performance culture

Rigorous financial discipline

- 4 values form the basis of our culture
- Inform how we work
- Guide our behavior

## Putting People First

2011 – 522 employees at year end

2012 – 550 employees

Plus 300+ contractors (summer)

- 100% live in Fairbanks North Star Borough
- 67% of employees own their homes
- Average age: 40 years
- Average years of Alaska residency: 13
  - » 40% in Alaska 15 years or more



### **Employment**

5<sup>th</sup> largest private sector employer in FNSB

10<sup>th</sup> largest employer overall

Average wage \$90,000+ (in 2010)

47% employed 5+ years at Fort Knox

16% employed 10+ years at Fort Knox

550 indirect jobs created in Alaska







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### Management Team

Dan Snodgress VP and General Manager

Bob Musgrove Operations Manager

Bob Sweeden Health & Safety Manager

Delbert Parr Environmental Manager

Arne Bakke Exploration Manager

Don Cordsen Site Controller

Eric Hill Technical Services Manager

Vince Mordja CI Manager

Craig Natrop Mine Ops Superintendent

Clint Nebeker Mobile Maintenance Superintendent

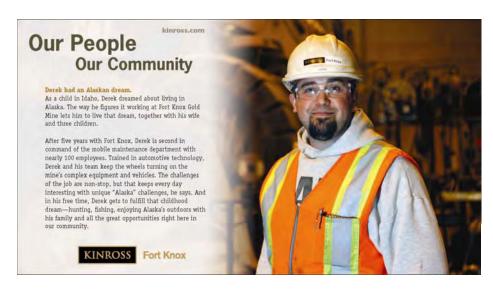
Chelly Nelson Human Resource Manager

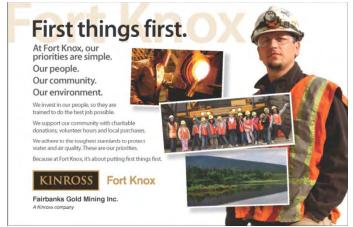
Lorna Shaw Gov't & Community Affairs Manager

Charlie Wells Ore Processing Manager



### **Public Education**







### Community Outreach



## Mine Tours are Back!

At the Kinross Fort Knox Gold Mine

Tour Dates Tours from 8:30am to 1:30pm

Saturday, July 30 Minimum age is 9 years old

Transportation to and from mine site included

\$5.00 donation to the Fairbanks Community Food Bank required for each seat reserved

Friday, August 12

Four seat maximum per reservation Contact Fairbanks Community Food Bank for more information

Wednesday, August 24 www.fairbanksfoodbank.org or 45-SHARE (457-4273)



Fort Knox

kinross.com

### Community Involvement & Support

Fairbanks Community Food Bank Clean Up Day on Steese Highway Adopted 6 families at Christmas American Heart Association Heart Walk AK Resource Education sponsor Mining Day at the fairs Sponsor of local youth sports Golden Days parade sponsor



### **Tours Provided**

Students: elementary through post grad Native corporation representatives Representatives from rural communities Elected officials Agency representatives Fairbanks residents

### Local economic benefits





550 high quality jobs







\$118 million capital investment



\$36 million on electricity

\$36 million on fuel

\$5.2 million on property taxes

























# Safety is no accident



## Safety Performance

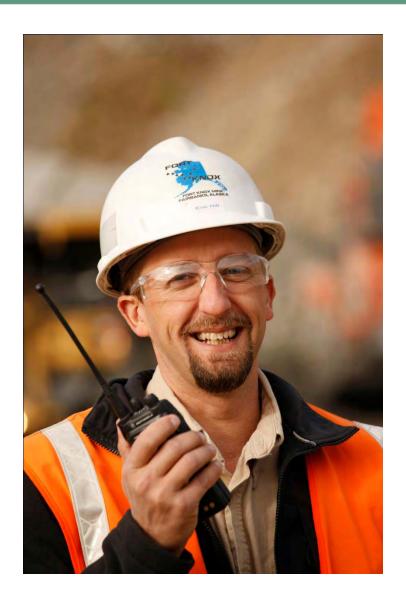
2011

Fatality

2012

- 1 medical treatment to date
- Plus one contractor MT
- Mine 2.3 M hours no LTI since 2006
- MEM no LTI since 2006 1 M hours
- Admin no LTI since 2005 1 M hours





## Safety Analysis

- Contracted to perform sitewide assessment of safety culture
- Next step: how to shape the change to achieve the desired culture
- Identify blind spots and fix them





### See it – Own it – Solve it

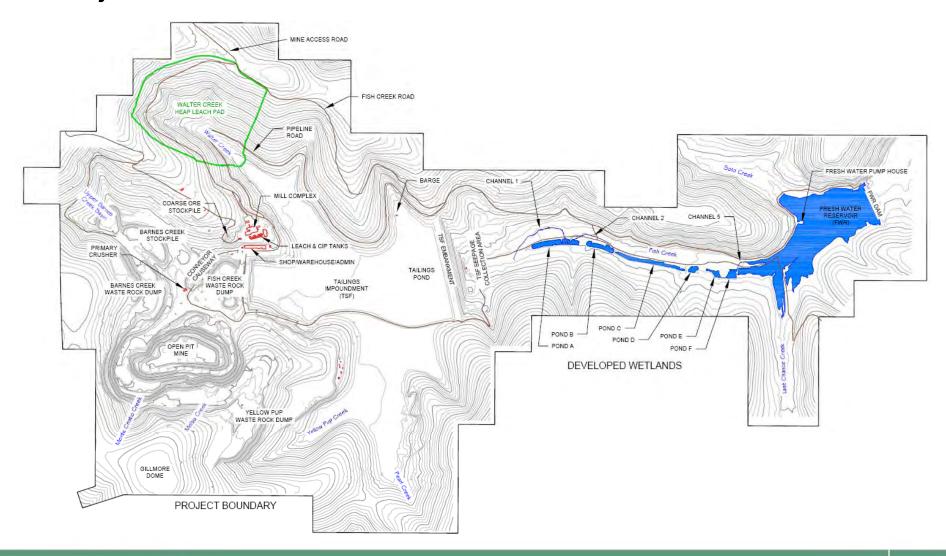
- Voluntary
- Employee driven
- Behavior focused
- Peer-to-peer



# Environmental Leadership Setting the GOLD standard



## **Project Overview**



## Third-party Audit – Fort Knox & True North

- Audit conducted in 2011 by SRK Consulting
- State agencies and Fort Knox have reviewed and commented
- Anticipating the final report next week







## Tailing Dam Raise

• 2010: Prepare for future construction

Excavated 22 feet

Reversed core

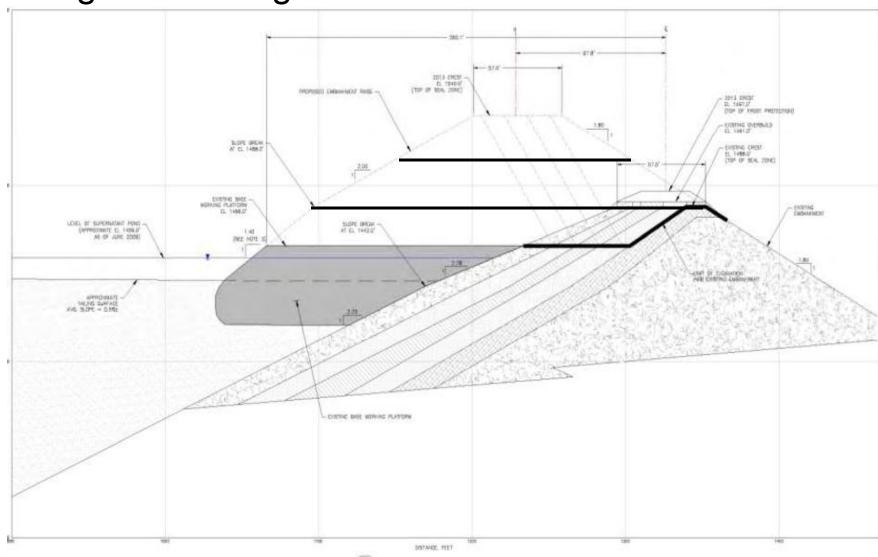
Built back to same height

2011: 25 foot dam raise

2013: 27 foot final raise



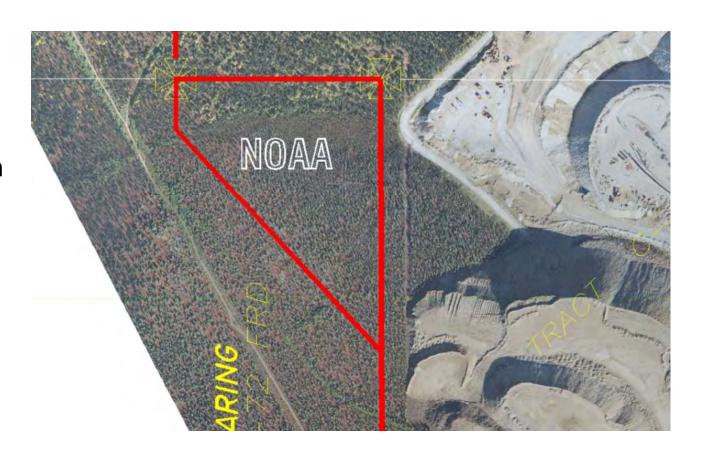
## Tailing Dam Design



### **Land Status**

32 acres
relinquished from
the NOAA
withdrawal

Incorporated in Millsite Lease for placement of waste rock



### Fort Knox Reclamation and Closure Plan

- Awaiting comments
- Preparing a new plan incorporating planned changes
- Financial Assurance is being calculated using the SRCE model



### **True North Reclamation**

#### 2009

- Decision to abandon further mining and exploration
- Wrote down reserves and resources
- Began final reclamation

### 2010

- Terminated lease agreements
- 149 acres graded
- 52 acres of growth media placed
- 270 acres scarified, seeded, and fertilized

#### 2011

- Maintenance
- Awaiting ADNR review/approval of final reclamation plans
- Planted 33,000 spruce, alder and birch seedlings

#### 2012

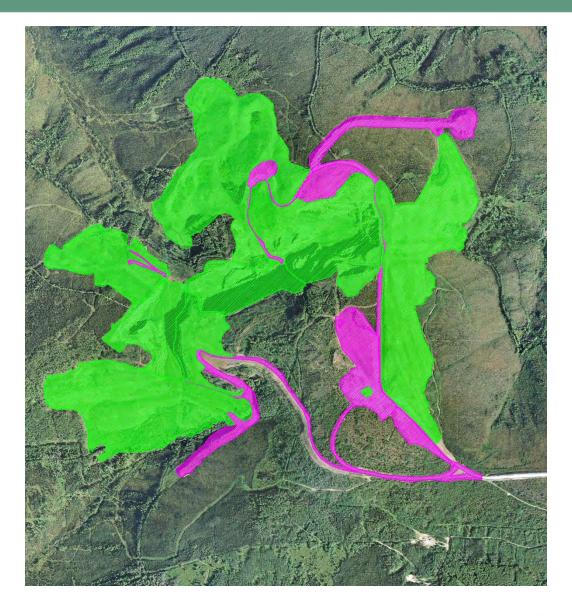
- Obtain approval of Reclamation Plan
- Complete major field reclamation activities



### TRUE NORTH RECLAMATION

394 acres reclaimed

184 acres to be reclaimed



Green hatched area indicates reclamation performed to date. Magenta indicates remaining reclamation to be completed.



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# Mine Operations People. Environment. Production.



### 2011 Production & Highlights



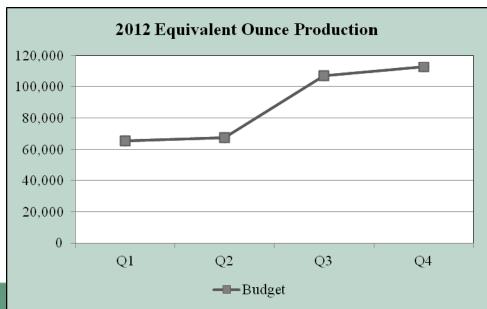
- 289,794 gold ounces produced
- 67.4 Million tons moved
  - 19 M tons stacked on Heap Leach
  - 15 M tons milled
- Phase 6 completion
- Phase 8 reserve addition 1.286 M tons
- Accelerated Heap Leach stacking

## 2012 Budget Production

- 352,878 gold ounce production
- 97.8 M tons moved
  - 30.7 M tons stacked on Heap Leach
    - 14 M tons moved by contractor
  - 15 M tons milled









### Equipment

- 10 CAT 785 Haul Trucks
- 9 CAT 789 Haul Trucks
- 10 CAT 793 Haul Trucks
- 2 Hitachi EX3600 Shovels
- 1 Hitachi EX5500 Shove
  - +1 new EX5600 (July 2012)
- 3 CAT 994 Loaders
- 1 CAT 992 Loader
- 5 CAT D10/D11 Dozers
- 3 CAT Wheel Dozers
- 6 Ingersoll Rand Drills
- 4 CAT 16H/M Graders



## 2011 Projects

- Walter Creek Heap Leach Stage 3: 1.9 M square feet liner placed
- Multiplate tunnel over access road to shorten haulage cycle
- Tailing Storage Facility: 25 foot dam raise



## **Multiplate Tunnel**

Tunnel Length: 264 ft

Tunnel Height: 21 ft

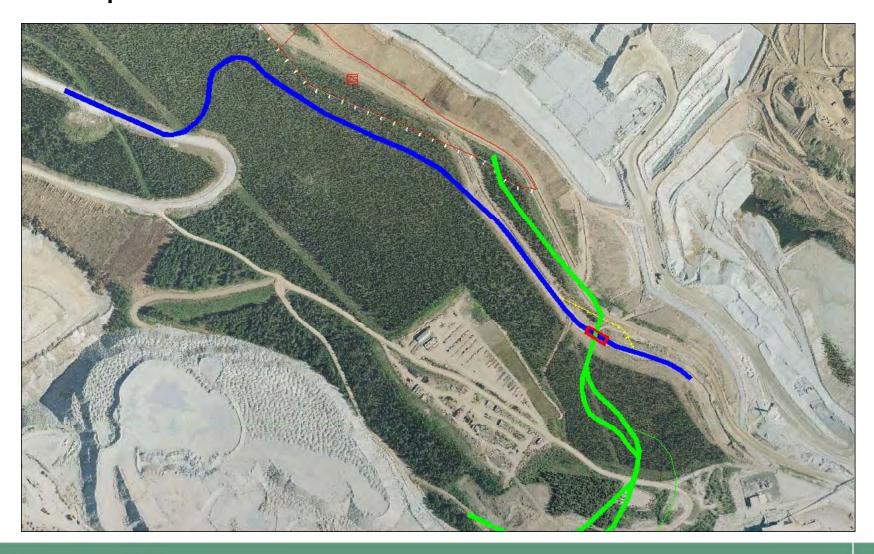
Embankment: 475,000 cy







## Multiplate Tunnel





### 2012 Projects

- Walter Creek Heap Leach Stages 3 & 4
- Contractor haulage to Walter Creek Heap Leach
- Pregnant solution pumping scenario
- Second CIC facility



## Walter Creek Heap Leach Stages 3 & 4 Scope

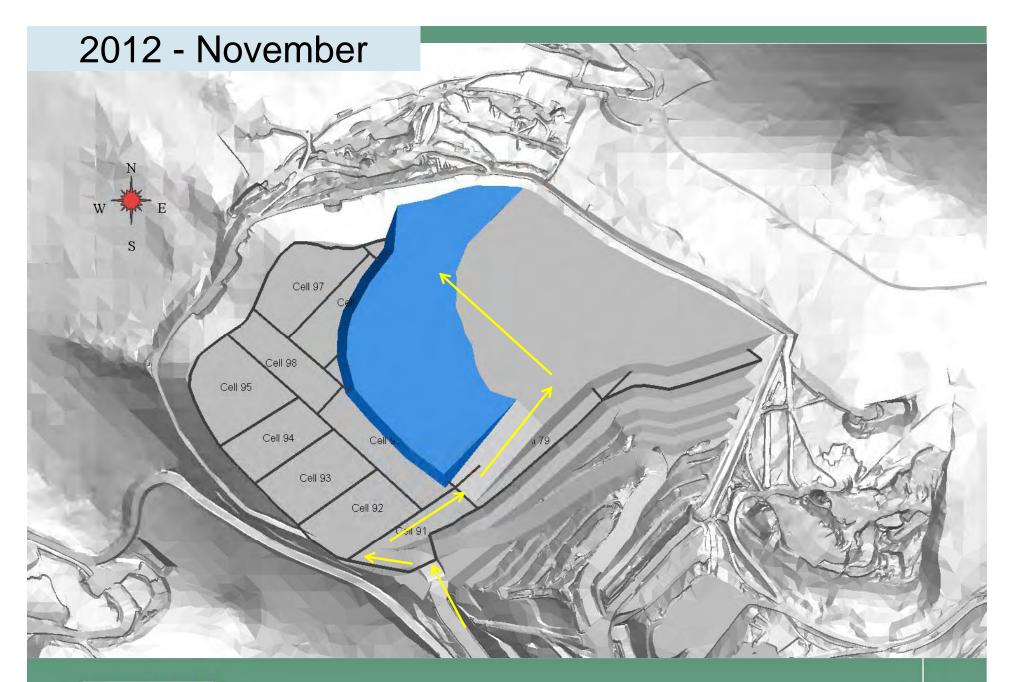
Continue with construction as per original design for Stages 1-5

- Stage 3 completion early summer 2012
- Initial Stage 4 summer 2012, completion 2013









Contractor Haulage to Heap Leach

### Scope

 Add contractor to accelerate HL stacking plan by hauling 14 M tons (April – November 2012)

- Contract awarded December 2011
- Mobilization underway



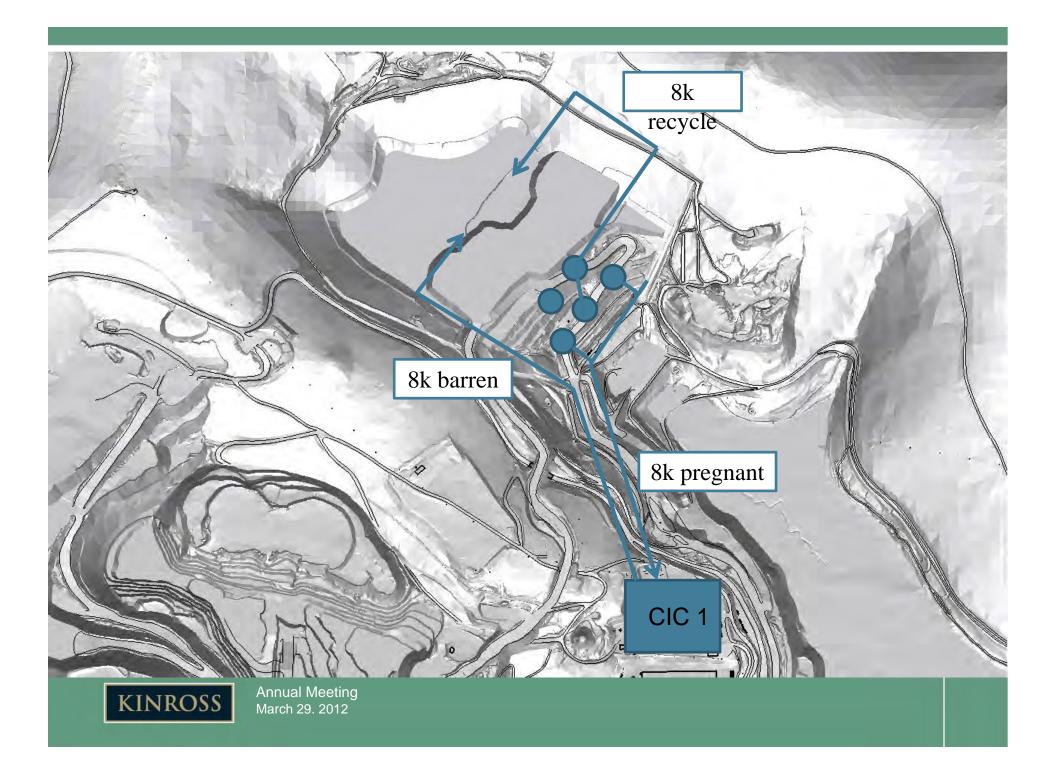


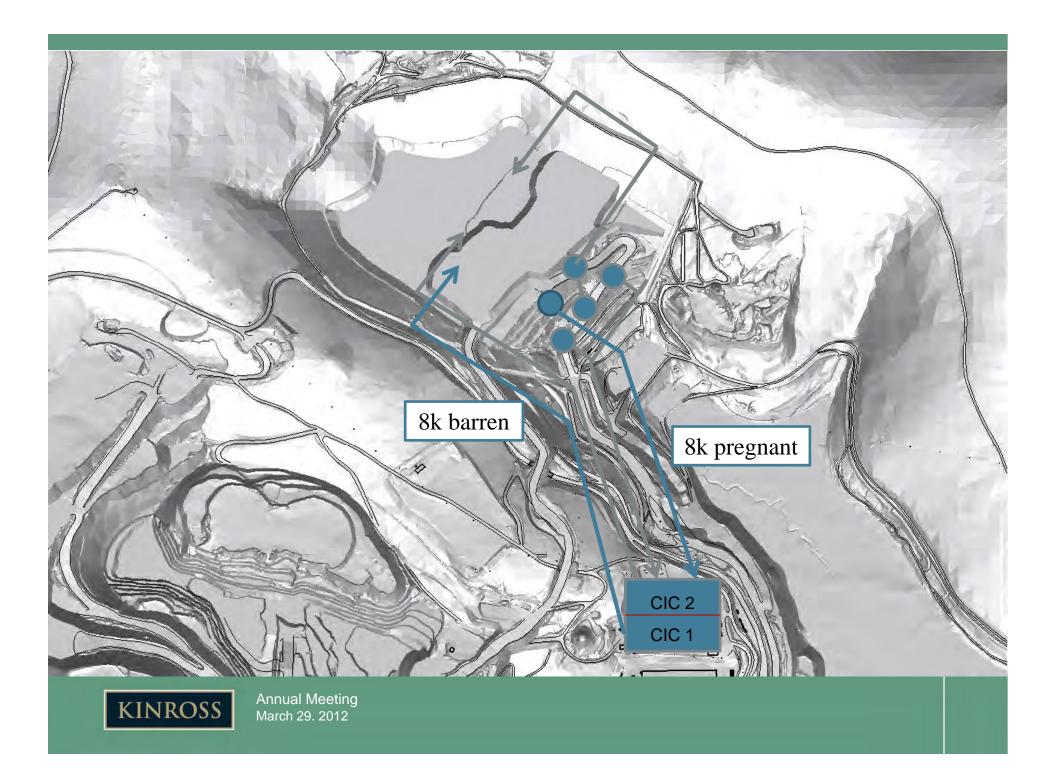
### Pregnant Solution Pumping Scenario

### Scope

- Increase solution flow from 8,000 gpm to 16,000 gm, raising grade of pregnant solution to CIC plant
- Additional flow required to leach 14 million additional tons placed on WCHL with contractor in 2012

- Well drilling underway
- Final completion in June 2012





### New CIC Facility

### Scope

 Construct new CIC to process increase flow from HL with new pumping system

- Engineered design underway
- Construction begins mid-year
- Complete in September 2013

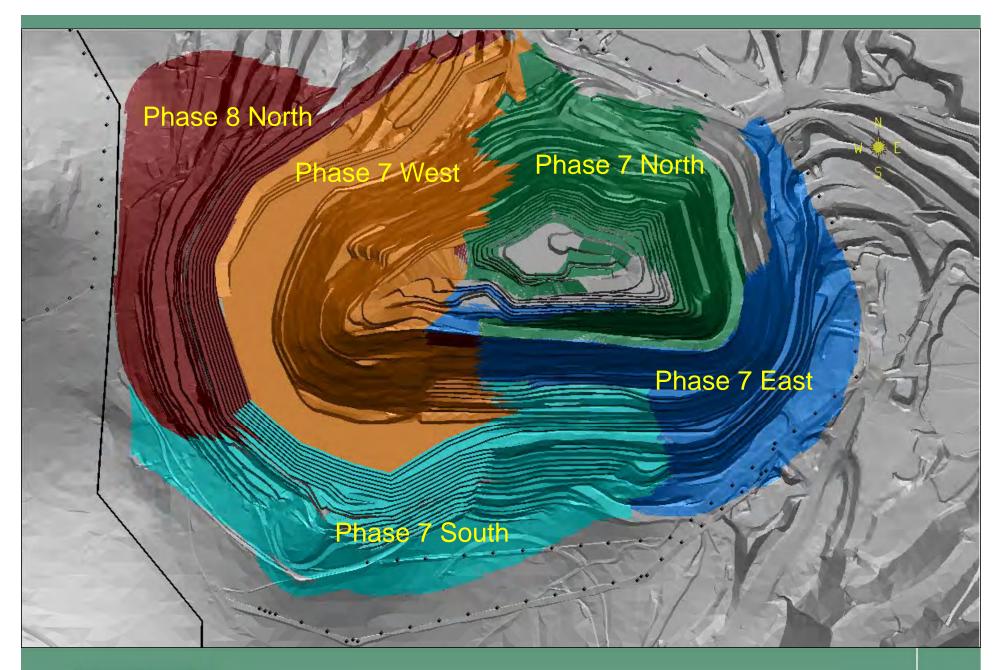


## Phase 8 Expansion

- Phase 8 added to reserve
- 1.3 M ounces added in 2011
- Mine sequencing upon completion of Phase 7

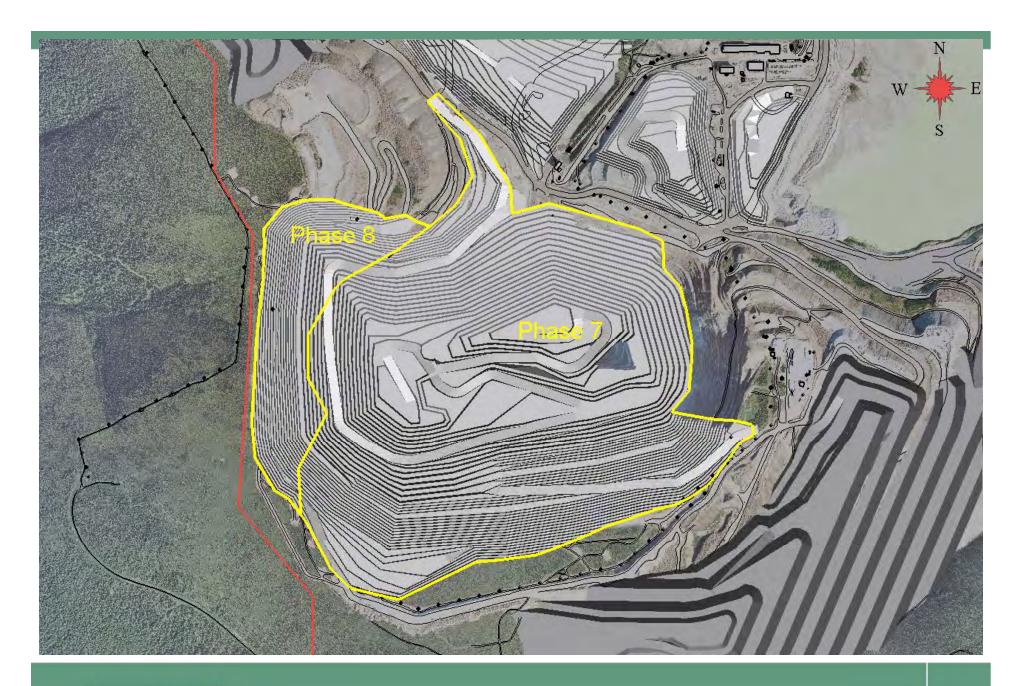






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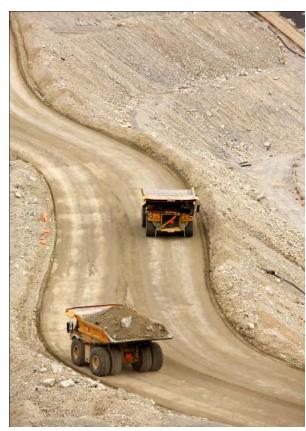
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## **Future Projects**

- Expand heap leach facility 161 M tons to 308 M tons
- Expand waste rock dumps
- Expand Millsite Lease





### Reserve Comparison

### 1996 Reserve

- 4.1M gold ounces
- 161M tons
- 0.025 opt
- Cut-off Grade 0.013 opt
- Waste to Ore Ratio 1.05:1
- Mine Life 12.4 years

### **Annual Production**

- 300 to 350k gold ounces
- 13M Ore Tons

### 2011 Reserve

- 4.3M gold ounces
- 315M tons
- 0.013 opt
- Cut-off Grade 0.004 opt
- Waste to Ore Ratio 1.45:1
- Mine Life 9 years

### **Annual Production**

- 300 to 420k gold ounces
- 16 to 46M Ore Tons

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