

Legal and Other Matters



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INFORMATION: The information contained in this presentation has been obtained by Golden Star from its own records and from other sources deemed reliable, however no representation or warranty is made as to its accuracy or completeness. The technical information relating to Golden Star's material properties disclosed herein is based upon previously filed technical reports prepared and filed pursuant to National Instrument 43-101.

CURRENCY: All monetary amounts refer to United States dollars unless otherwise indicated.

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Wassa/HBB History



- **→** September 2002
- **→** June 2003
- March 2004
- December 2004
- **→** April 2005
- December 2005
- May 2007
- **→** August 2008

Acquisition by Golden Star

Feasibility study complete

Environmental permit issued

Major construction completed

Commercial operations

commenced

St. Jude acquired

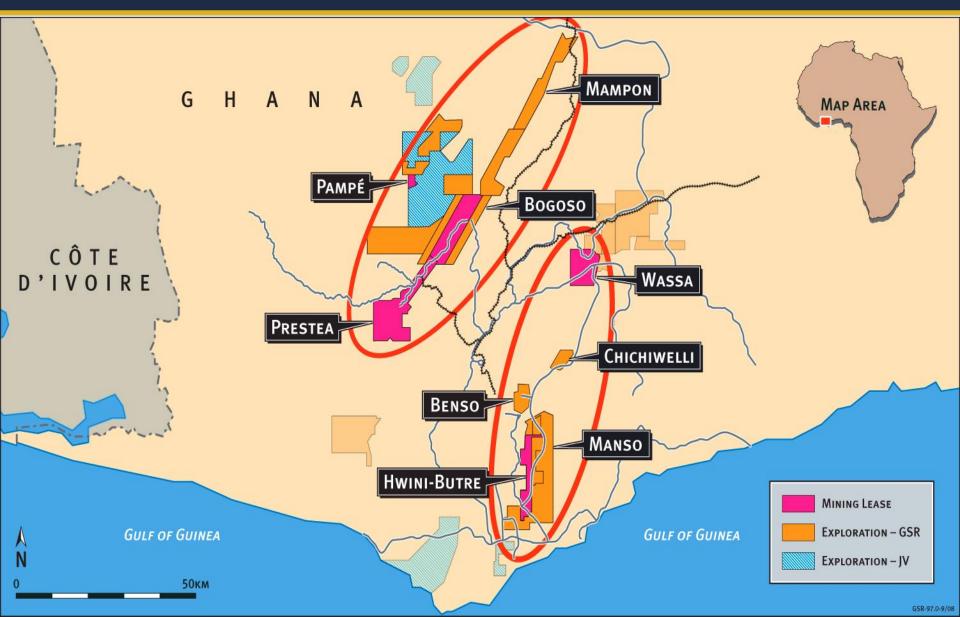
HBB feasibility approved

HBB first ore delivered to

Wassa Mill

Wassa/HBB Location in Ghana





Wassa



- Conventional CIL
 2.7Mtpa plant
 commissioned in
 2005
- Ore from both Benso and Hwini-Butre being blended with Wassa ore
- Excellent exploration potential
 - Manso property proximal to Hwini-Butre
 - Chichiwelli situated on the HBB haul road



2013 Exploration Budget \$20 million



	Q1	Q2	Q3	Q4	2013
Wassa Expansion Drilling	\$5,435,860	\$4,852,813	\$1,331,873	\$1,278,051	\$12,898,597
Prestea Under Ground	\$598,541	\$668,070	\$795,545	\$774,229	\$2,836,385
Prestea Surface	\$4,832	\$226,672	\$864,574	\$0	\$1,096,077
Mampon	\$412,172	\$704,119	\$0	\$3	\$1,116,295
Other Ghana	\$79,539	\$66,010	\$3	\$0	\$145,552
Drilling Capital including GC drill	\$857,582	\$13,582	\$0	\$0	\$871,164
Ivory Coast	\$43,455	\$38,103	\$35,938	\$42,644	\$160,141
South America	\$269,775	\$88,596	\$12,086	\$65,886	\$436,342
Denver Exploration	\$140,963	\$120,163	\$90,563	\$81,763	\$433,450
Exploration 2013 totals	\$7,842,718	\$6,778,128	\$3,130,581	\$2,242,576	\$19,994,003

- **→ TOTAL PROPOSED 2013 BUDGET AFRICA \$20 MILLION**
- Exploration to focus on Wassa Main and Prestea West Reef UG drilling
- → Confirmation/Infill/resource conversion drilling to be done at Mampon and Prestea South ahead of mining in 2014

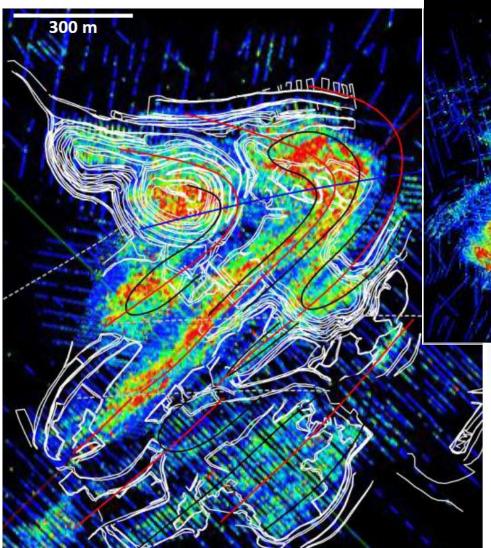
Folded Quartz Veins System - Wassa

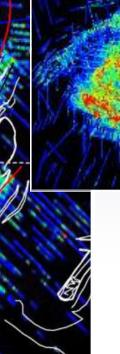


S0-S1

S2

S3





Leapfrog Data, Wassa Mine, 2010

Wassa Geology

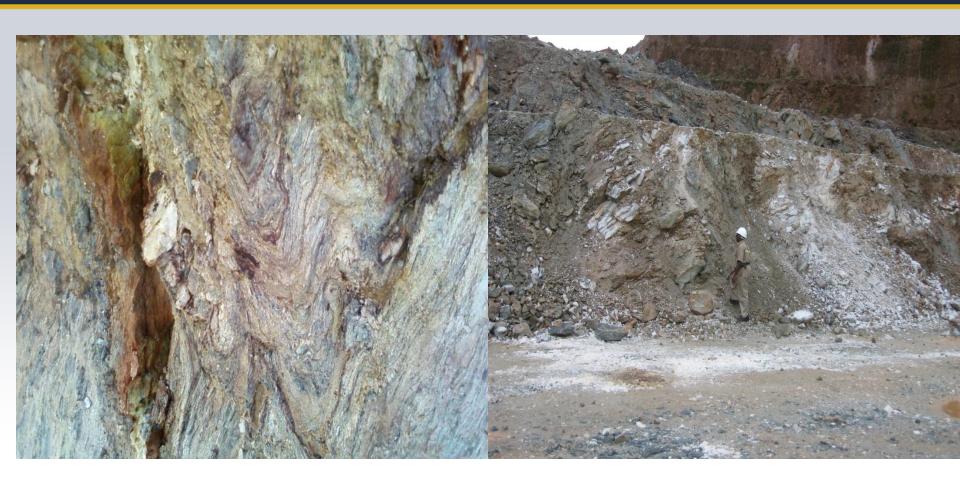




Gold associated with quartz veins with sulphide alterations mainly pyrites. Economic mineralization is characterized by swarms of quartz veins and veinlets plus sulphides which are individually boudinaged and folded upon itself.

Wassa Geology





Lack of Continuity in mineralization along strike due to complex folding and structural complexity

Wassa B Shoot High Grade zone

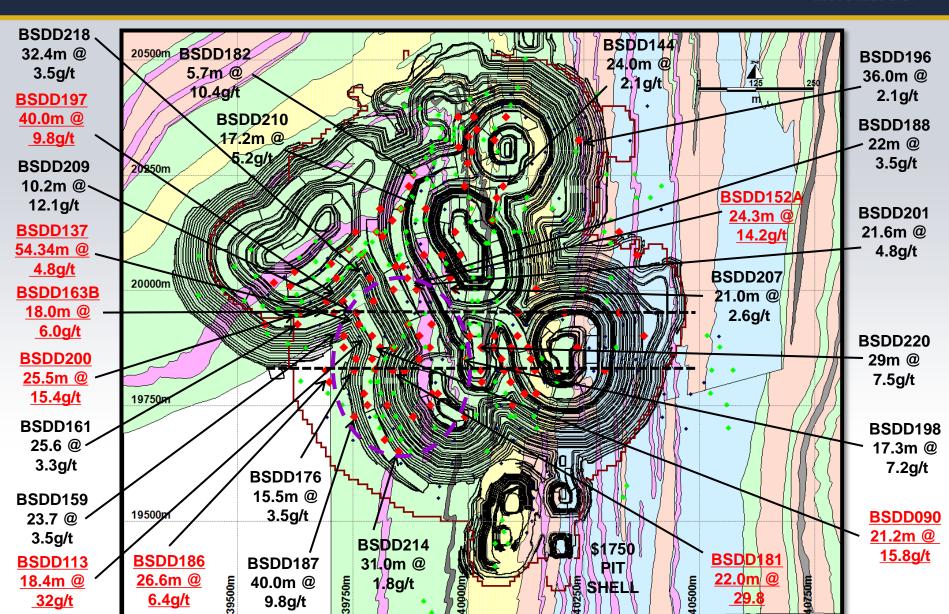


- B Shoot High grade fold hinge zone drill tested over 200 m strike length
- Ten Diamond Drill holes have intersected the zone thus far and it remains open down plunge
- 2013 drilling to infill and expand this zone for inclusion in the 2nd half of the year resource model update

Hole ID	Easting (m)	Northing (m)	Elevation (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Drilled Width (m)	~ True Width (m)	Gold Grade g/t
BSDD152A	39895	20000	993	90	-60	265.3	290.0	24.7	24.3	14.2
BSDD197	39751	19975	1022	90	-55	393.5	433.6	40.1	39.9	9.8
BSDD163B	39713	19950	1036	90	-52	434.5	452.5	18.0	18.0	6.0
BSDD200	39632	19950	1047	90	-50	482.5	508.0	25.5	25.5	15.4
BSDD137	39769	19925	1030	90	-56	373.0	445.0	72.0	54.3	4.8
BSDD113	39792	19900	1031	90	-61	372.5	398.5	26.0	18.1	32.0
BSDD090	39809	19875	1030	90	-58	368.3	397.3	29.0	21.2	15.8
BSDD131	39756	19850	1032	90	-64	446.0	468.0	22.0	14.4	6.1
BSDD135A	39760	19825	1033	93	-60	506.5	521.9	15.4	10.9	6.3
BSDD186	39701	19800	1044	90	-60	389.0	416.0	27.0	26.6	6.4

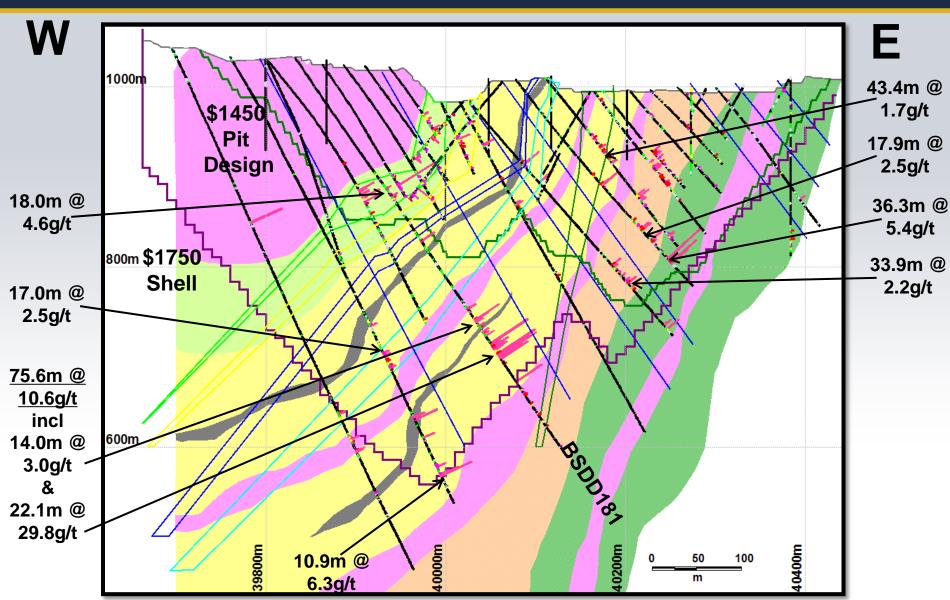
Wassa Main BS significant results Jan 13





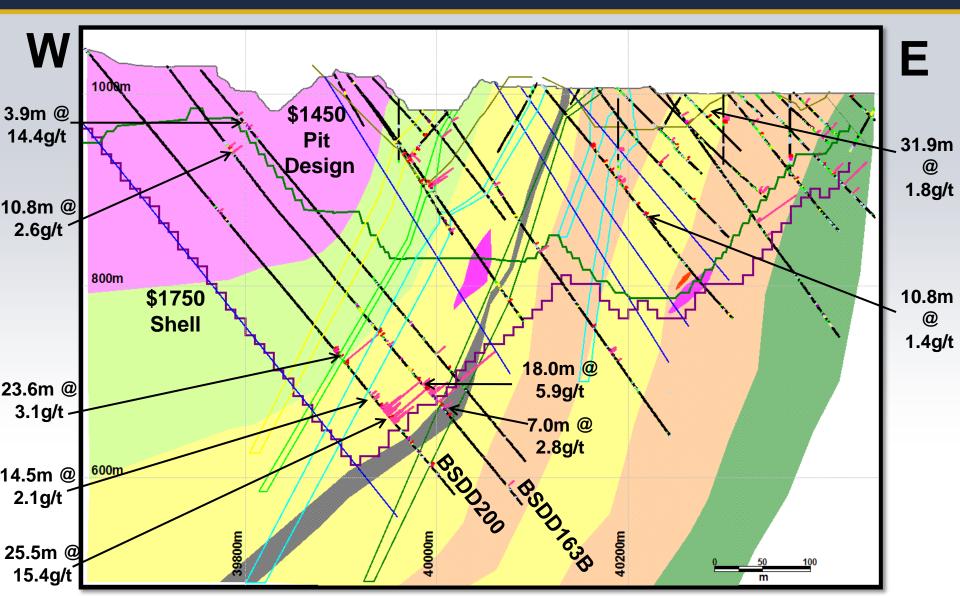
WASSA (MAIN) SECTION 19825N





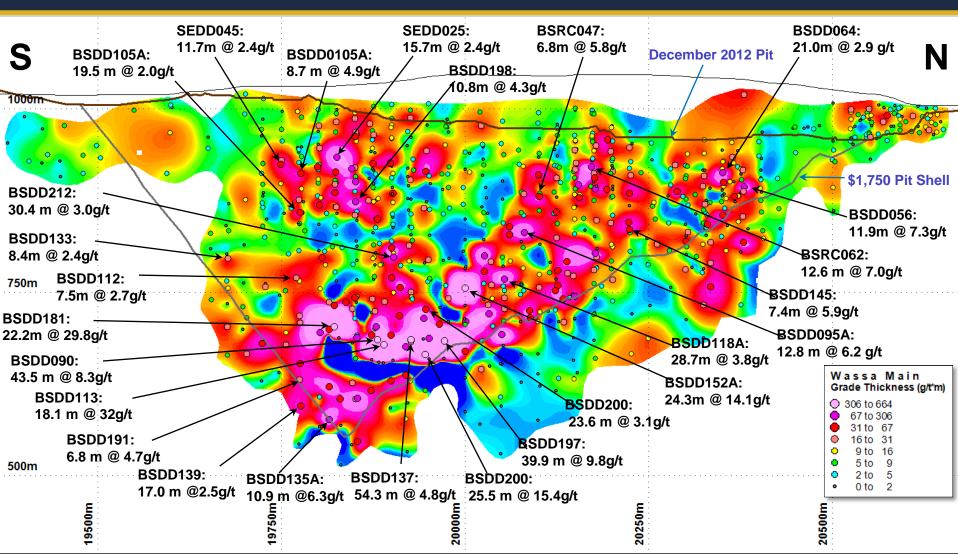
WASSA (MAIN) SECTION 19950N





Wassa Main Au Grade Thickness Long Section True Width

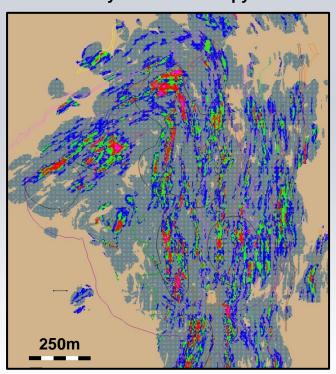




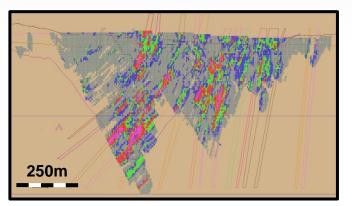
Wassa updated resource models



GSE 12 Dynamic Anisotropy model

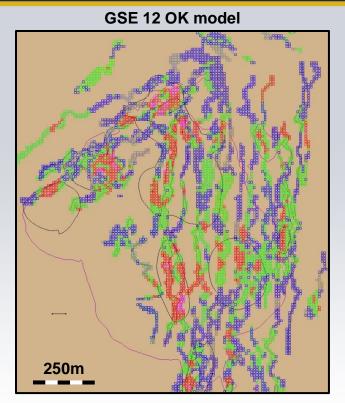


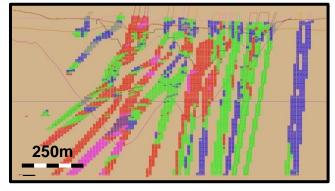
- Wassa deposit is difficult to block model due to complex folding geometries
- Evaluating several different modeling approaches to determine which best reflects actual mined and milled numbers





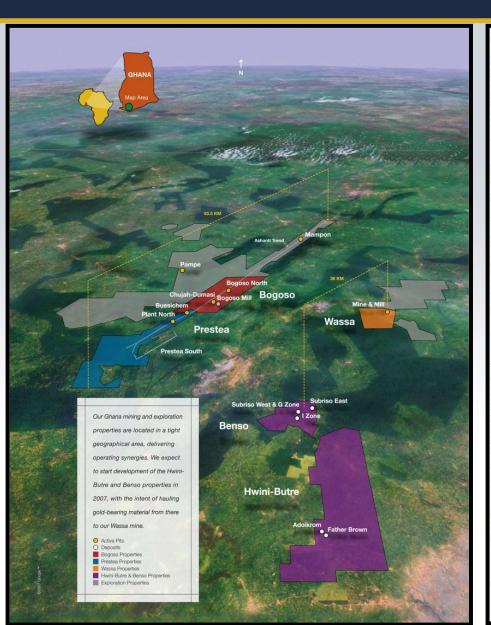
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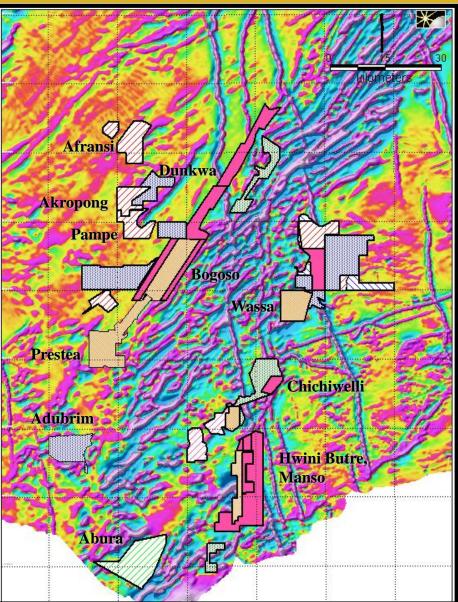




GSR Ghana – Hwini Butre

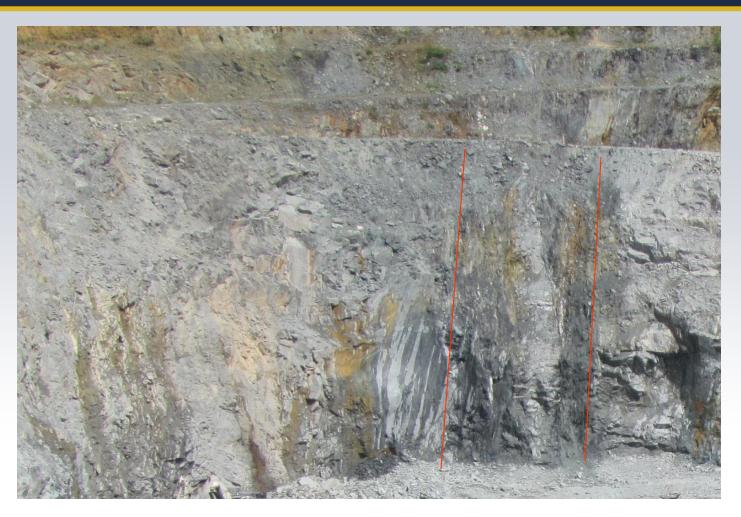






HBB Geology





HBB - LINEAR MINERALIZED ZONES

Hwini Butre Exploration update

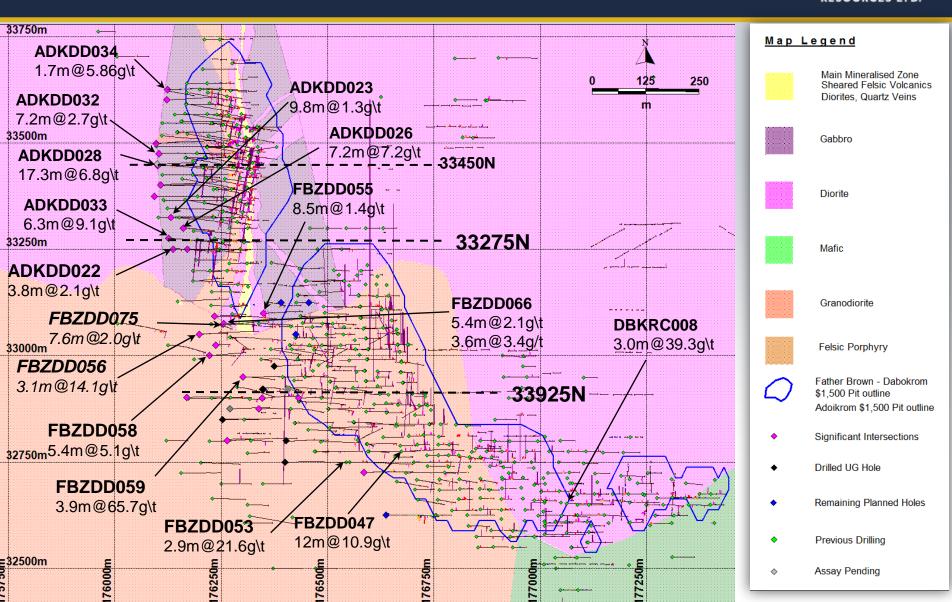


- 34 drill holes completed totaling 10,408 m completed YTD (11/30/12)
- Testing FBZ and ADK zones at depth
- → FB holes have targeted down dip and along strike where the main structure was intersected but grades were marginal
- → ADK deeper drilling has intersected wider higher grade zones of mineralization below the mined out pit



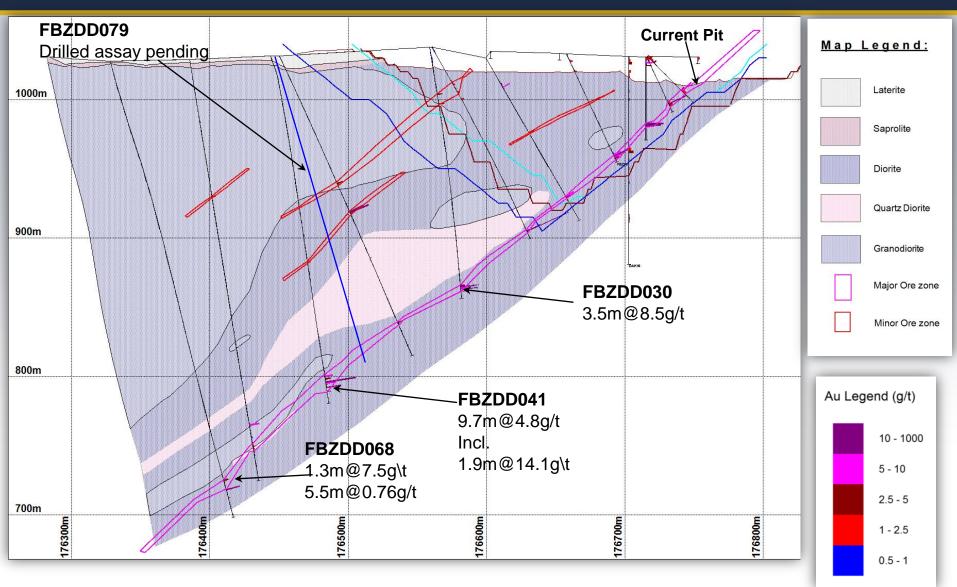
Father Brown - Adoikrom 2012 Drilling Planview





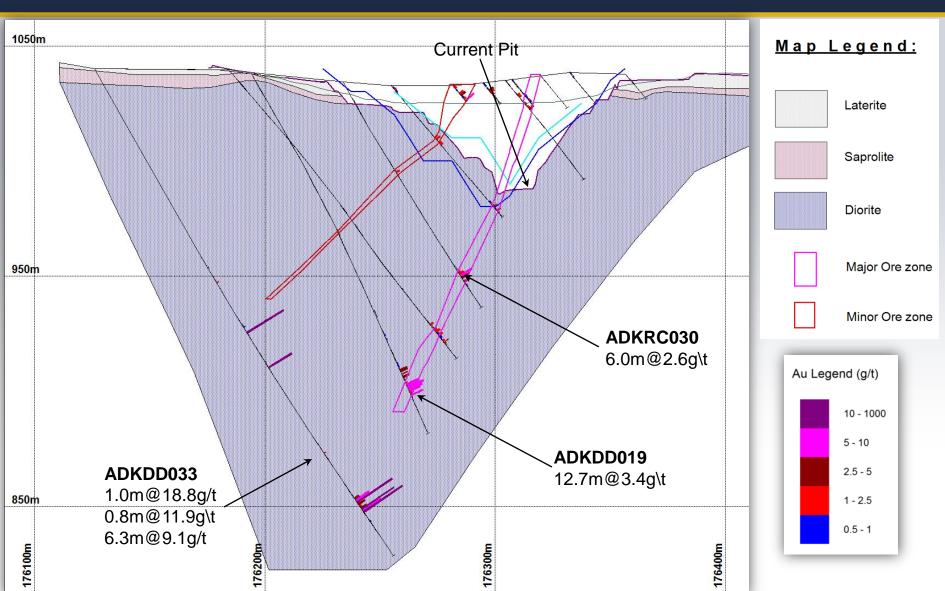
Father Brown Drilling Section 32925N





Adoikrom Drilling Section 33275N





Wassa/HBB Reserves & Resources



Proven & Probable Reserves

- 2012: 31.8M tonnes grading 1.44 g/t Au for 1.47M oz Au
- 2011: 18.1M tonnes grading 1.38 g/t Au for 0.8M oz Au

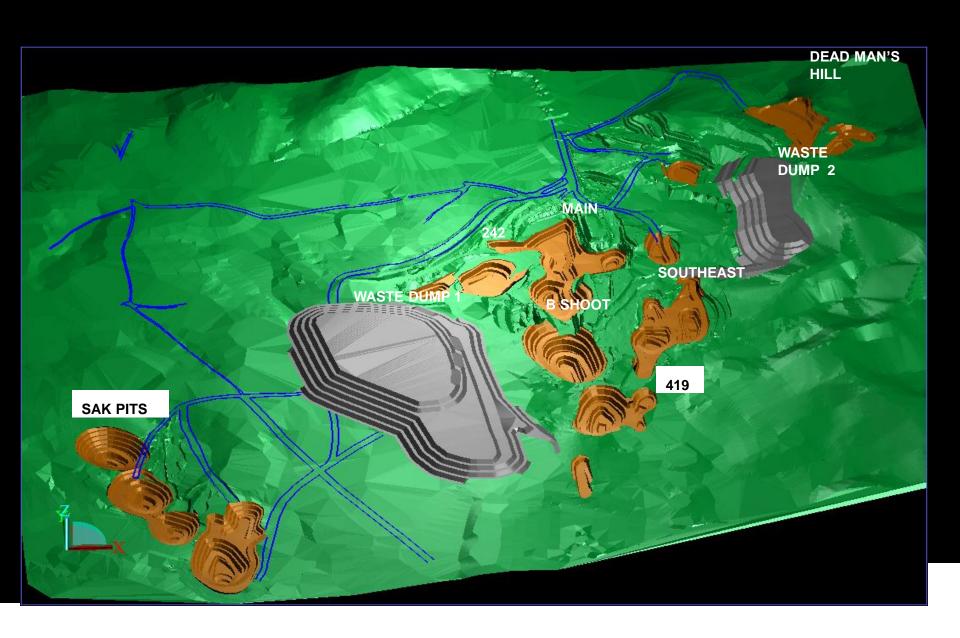
Measured & Indicated Resources

- 2012: 20.1M tonnes grading 1.3 g/t Au
- 2011: 20.0M tonnes grading 1.52 g/t Au

Inferred Resources

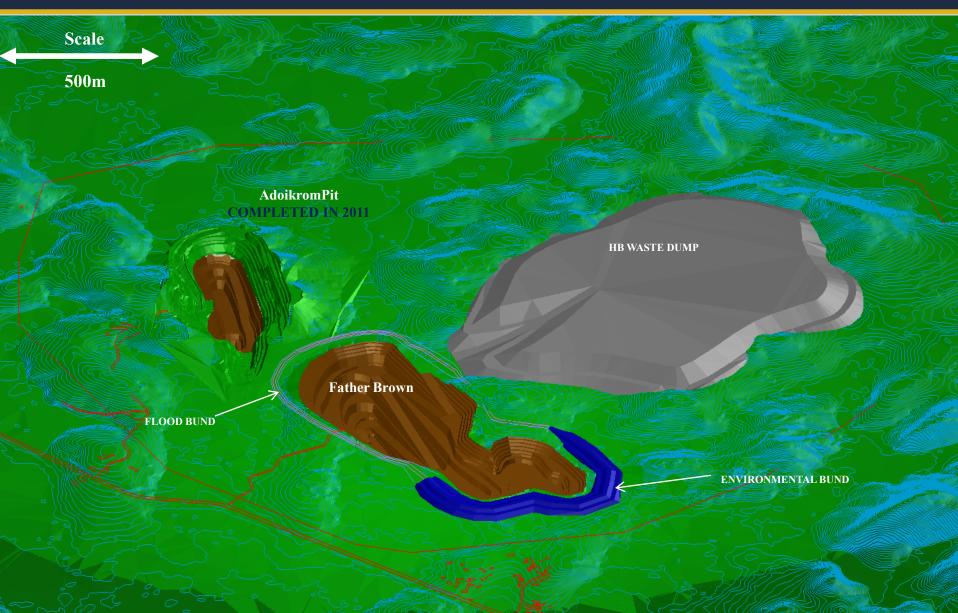
- 2012: 13.2M tonnes grading 1.7 g/t Au
- 2011: 2.1M tonnes grading 2.62 g/t Au

Wassa Main Mining Locations



Hwini-Butre Mining Location





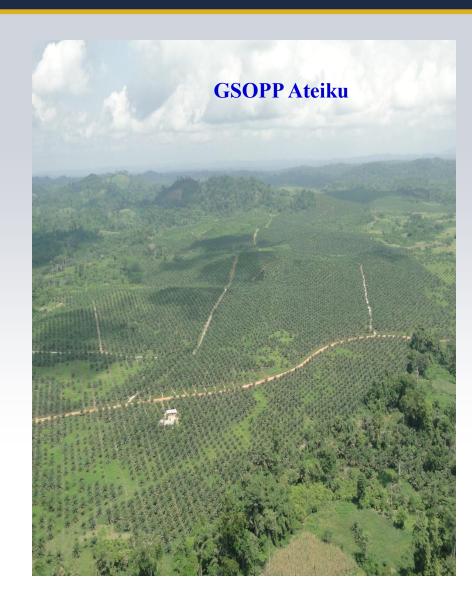
Wassa/HBB Mining Fleet



984 Excavators	3
→ 777D Dump Trucks	11
→ 773F Trucks	5
→ D9 Dozers	8
→ L8 Rigs	3
+988G F. E. Loaders	3
→ Graders	4

Contractors (E & P)

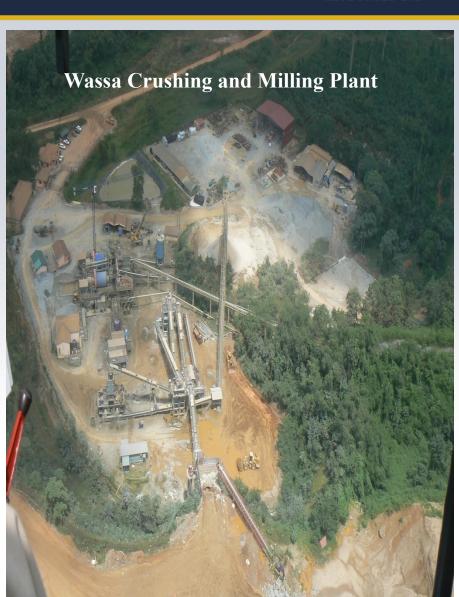
→ Excavators	6
→Trucks - A35D	11
→Trucks 777F	7
→Graders	3
→ Dozers	5
→ Drills	6



Process Plant Specifications



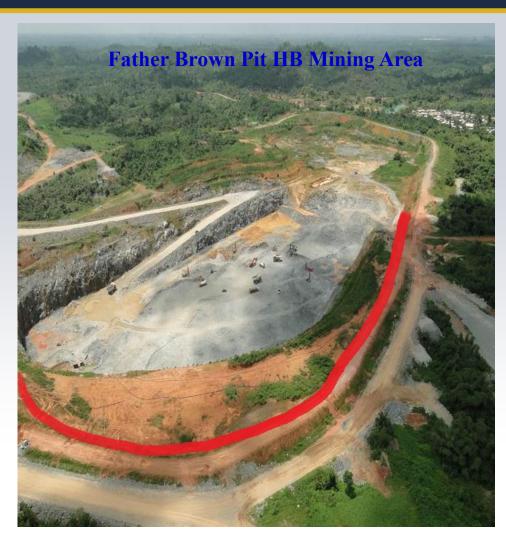
- + 2.7 Mtpa throughput
- 4 Stage Crushing circuit
- 2 x 5.1 m x 6.7 m Ball Mills
- Grind 80% -106 micron
- Mills rated at 3 MW each
- Gravity recovery 25% and rising
- Cyanide introduced post ball mill
- 800m Pipe Reactor 70% dissolution
- → 6 x 2500 m3 CIL Leach Tanks
- → Metallurgical recovery of ~94%



Wassa/HBB Update



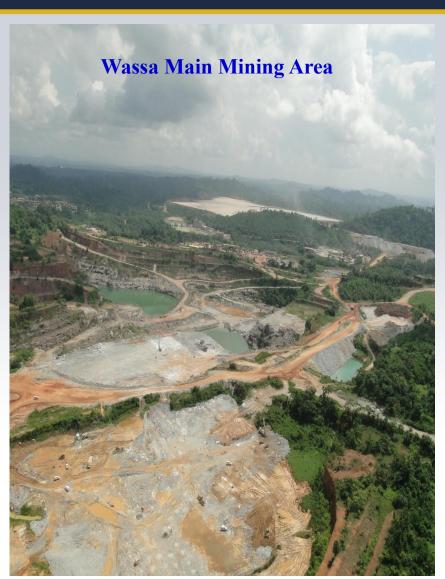
- Revenue up year over year on higher production and gold prices
- Wet weather strategy for improved crushing completed
- → Drilling high grade, wide width zone below the Wassa pits
- Future Cut Back at Father Brown is indicated by Red Line.



Wassa/HBB 2012 Production Summary



- → Full year gold sales of 158,899 oz at CoC of \$883/oz
- Metallurgical recovery of 93.4%
- Wassa tailings dam raise Phase2 completed
- High grade, wide width zone discovered below the Wassa pits
 drilling ongoing



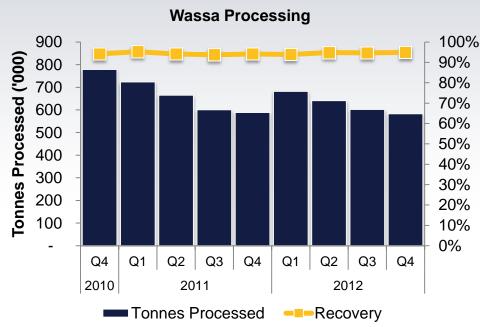
Wassa Production Profile





Wassa operating costs trending downwards since 2011

Steady state Wassa mill throughput and recovery



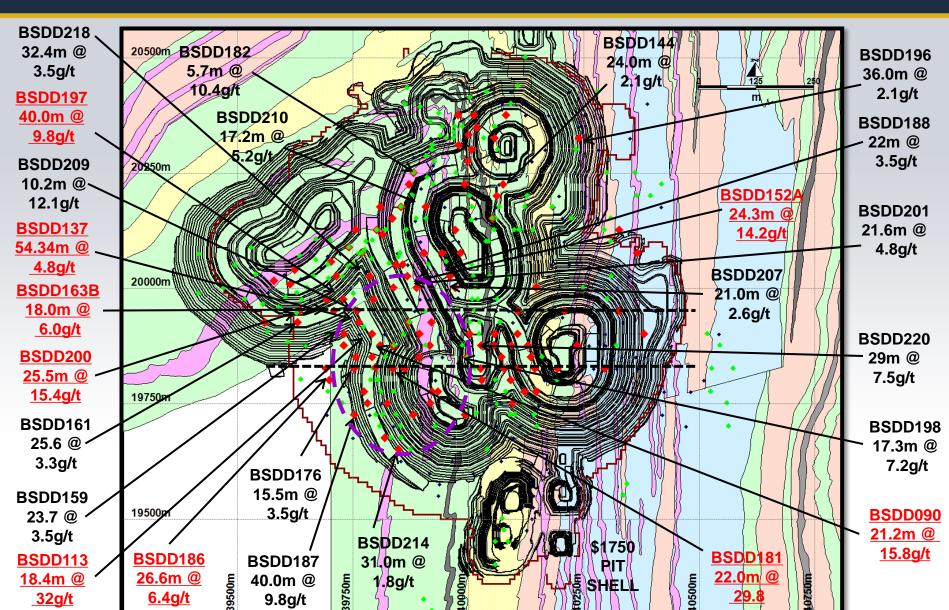
Wassa pits – the case for expansion



- The higher grades intersected at depth should have a positive effect on the pits pushing them deeper
- → The mineralization now extends over 1,000 meters to the south
- → Continued infill and extensional drilling during 2012
- Interim resource models will be completed in June 2013 as drilling advances
- Continued exploration success at Wassa may lead to significantly larger resources and a possible mill expansion

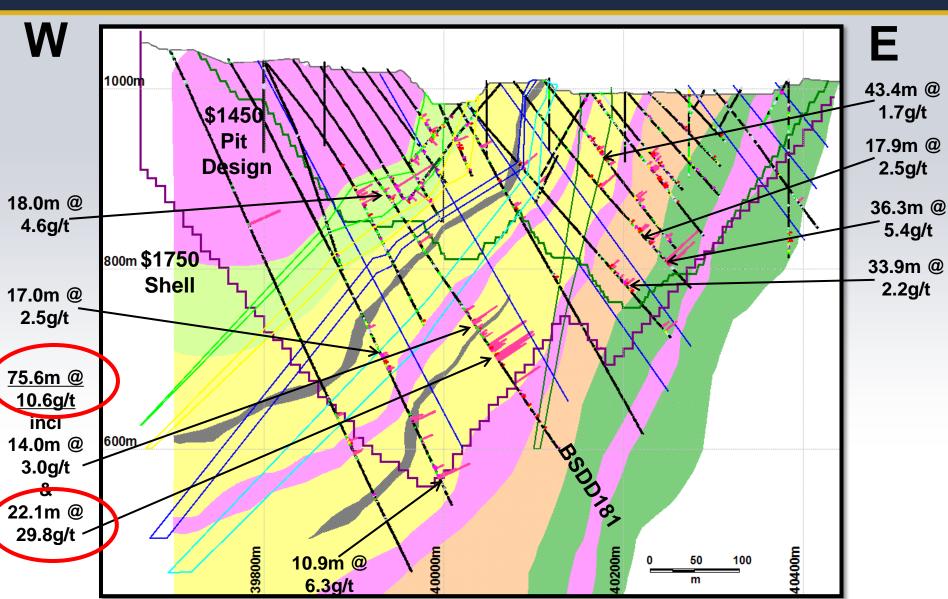
Wassa Main BS significant results Jan 13





WASSA (MAIN) SECTION 19825N

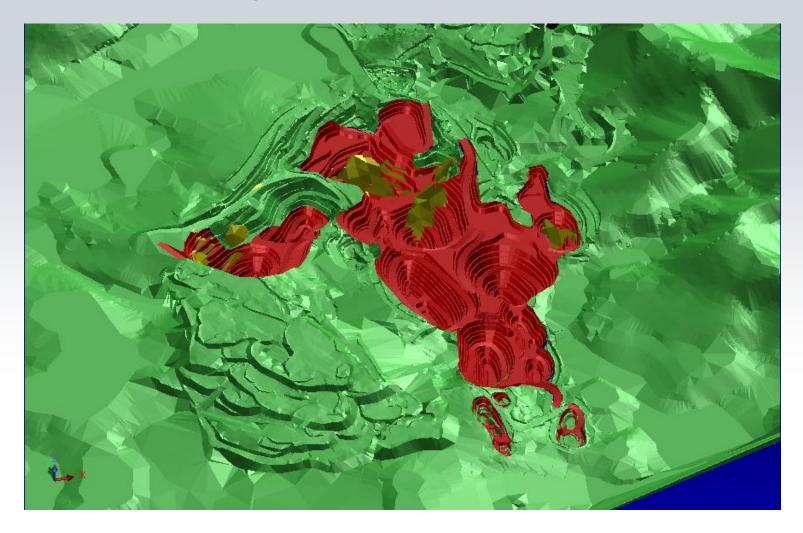




Wassa Mine Strategy



→ Wassa Main Pit Expansion Potential

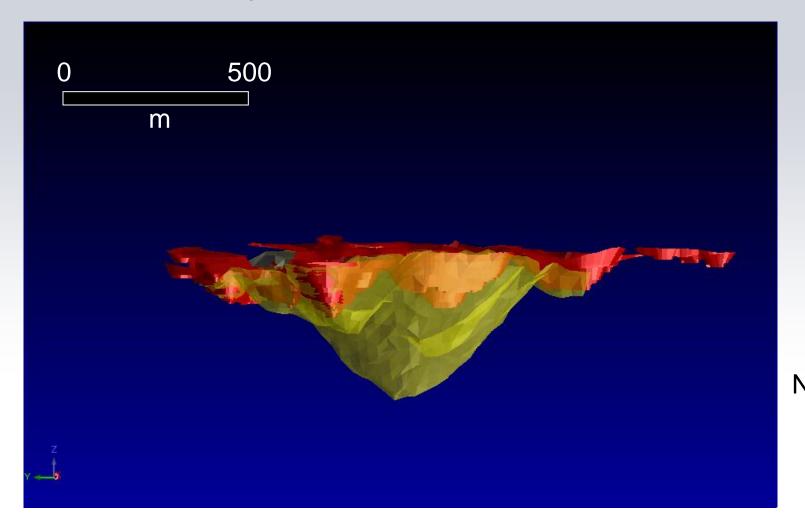




Wassa Mine Strategy

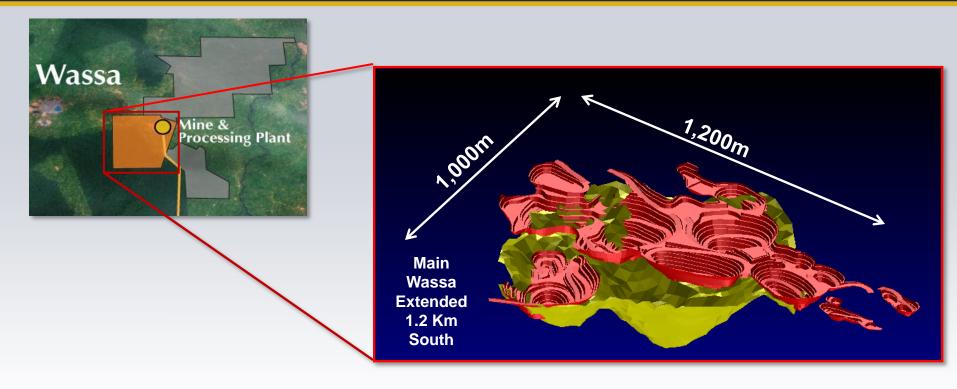


→ Wassa Main Pit Expansion Potential



Wassa Potential Expansion





- Extensive drilling ongoing
- → Preliminary pit shell suggests a single pit 1,200 m by 1,000 m by 450 m deep
- Potential to significantly increase resources with further drilling
- ★ Leads to possible plant expansion scenario

Plant Upgrade from 2.7 to ~ 6.0Mtpa



- Pre-feasibility study underway
 - Estimate Phase 1 debottlenecking cost (+/- 30%) would bring throughput to 3.0 Mtpa
 - Estimate Phase 2 Expansion cost nominal capacity ~6.0 Mtpa
- + Full feasibility study expected in 2014

Health and Safety 2012



- → Total incidents have been reduced by 63% (63 vs 170) year over year
- → Best Mine in Health and Safety and Rescue National Competition 2012
- → Best Community National Rescue First Aid team 2012
- → 3rd Best mine in terms of accident & injury reduction 2012
- + 3rd Safest Mine in terms of incidents at start 2012

Environmental and Social Responsibility



- GSWL has a strong Environment and Social Responsibility program
- → Community engagement programs with community elected committees to identify projects and manage any issues
- → Strong performance in the EPA's "AKOBEN" audit program covering environmental and social practices
- Member of ICMC program
- → Risk-approached Health and Safety programs with a strong emphasis on worker and community wellbeing





Akyempim



16 Seater Aqua Privy Toilet Facility



Overhead Tank





Subriso Community

The Community Centre

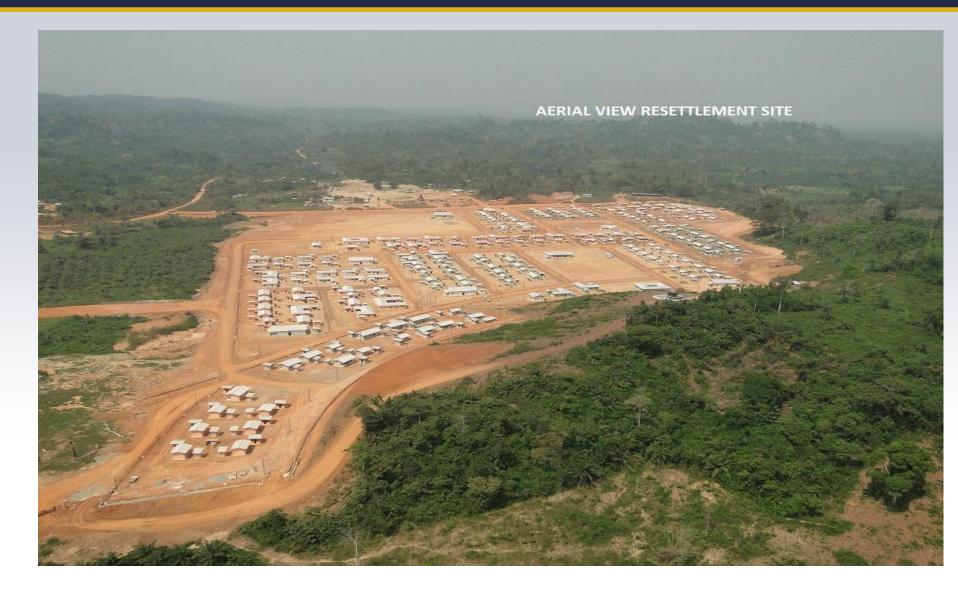


Attached Toilet & Urinal



Togberkrom Relocation – New Township





Community Youth Apprenticeship Programme





Rehabilitation at Benso





Galamsey Impact on Environment







Questions?

