

APPENDIX 3. GEOLOGIC TRENCH MAPS

Geologic maps of each bench of the trenches were compiled using ArcMap[®]. The trench numbers are designated in the caption. Elevations and distances are in feet in order to correlate with drill hole data (Appendix 1); most other measurements are in metric units. Surveying was by Molycorp staff. Mapping is by NMIMT field and laboratory personnel. Geologic maps were not compiled for the unstable portion of the GHN rock pile because the units were folded and faulted and difficult to accurately map in the time allotted.

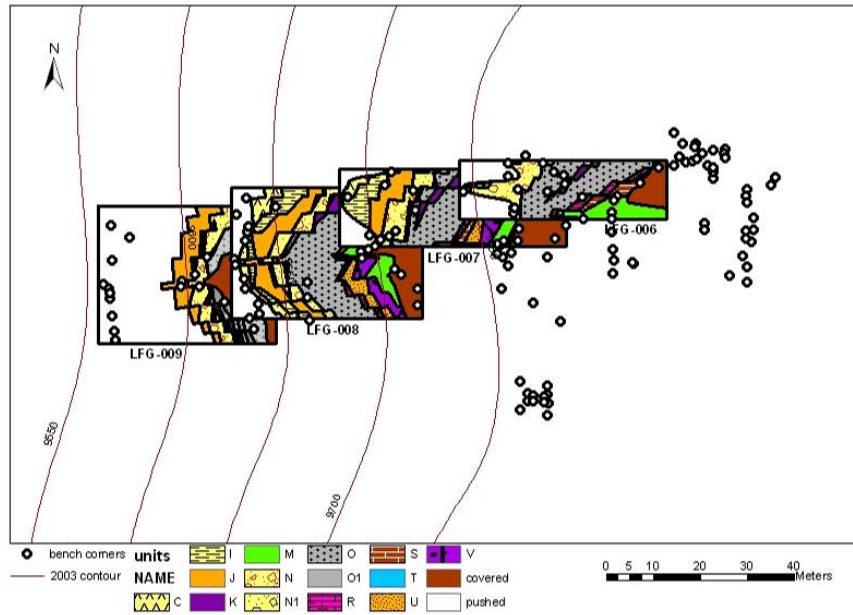


FIGURE 3.1. Geologic map of all trenches in the stable portion of Goathill North (GHN) rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13.

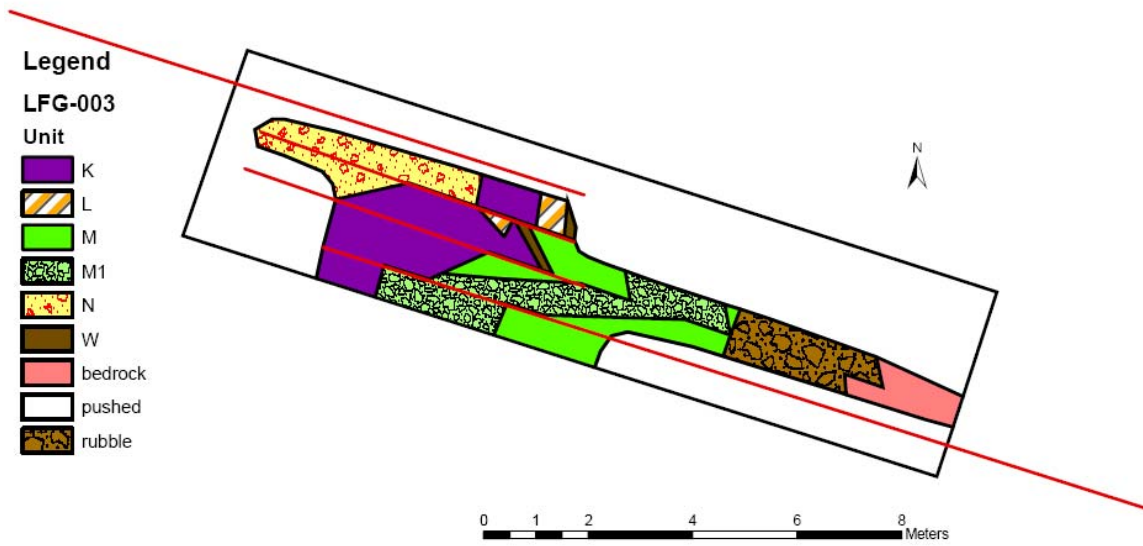


FIGURE 3.2. Geologic map of Trench LFG-003 (upper trench) in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 1-4.

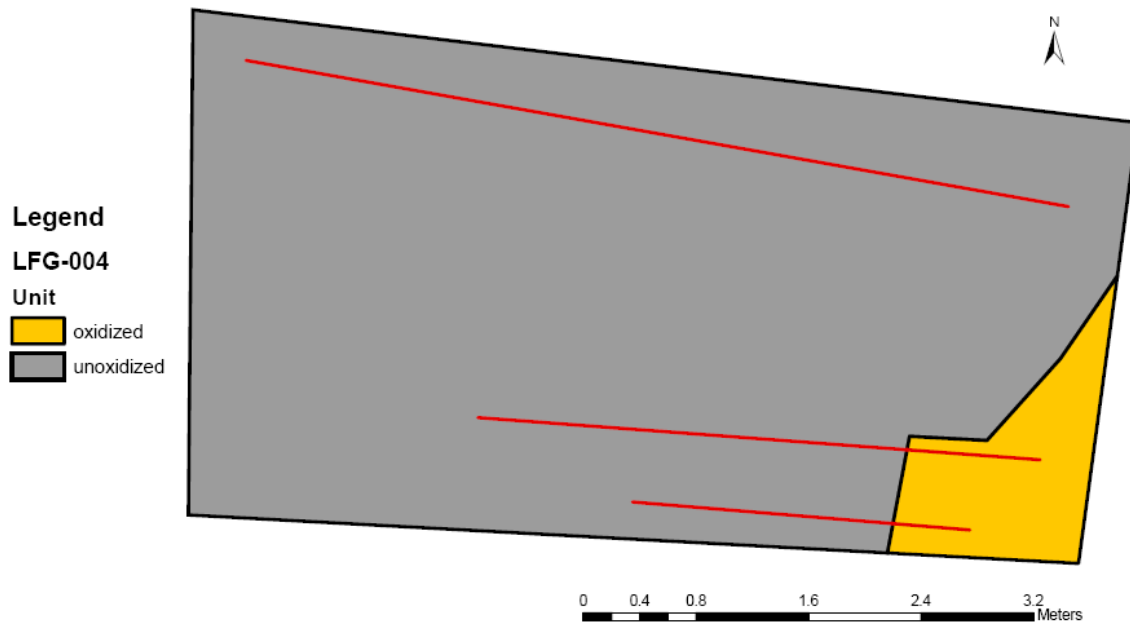


FIGURE 3.3. Geologic map of Trench LFG-004 in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 1-2.

Legend

LFG-005	Q
Unit	R
C	S
I	T
J	amalia
K	covered
L	o_soil
M	pushed
N	rubble
O	y_soil
P	

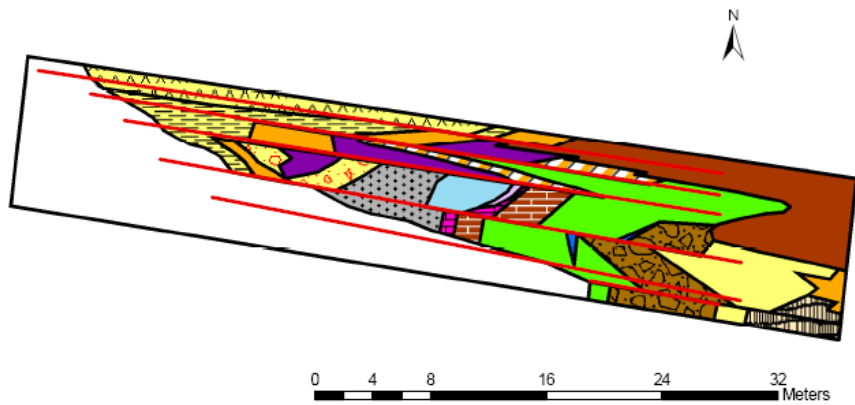


FIGURE 3.4. Geologic map of Trench LFG-005 (upper trench) in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 1-5.

Legend

LFG-006

Unit

I	
J	
K	
M	
N	
O	
R	
S	
covered	
pushed	

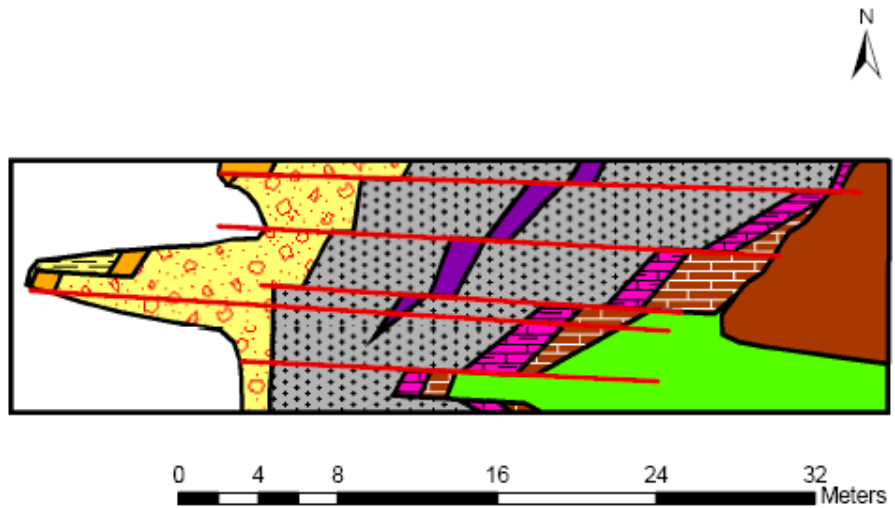


FIGURE 3.5. Geologic map of Trench LFG-006 in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 6-10.

Legend

LFG-007

Unit

-  C
-  I
-  J
-  K
-  M
-  N
-  N1
-  O
-  R
-  S
-  T
-  U
-  V
-  covered
-  pushed

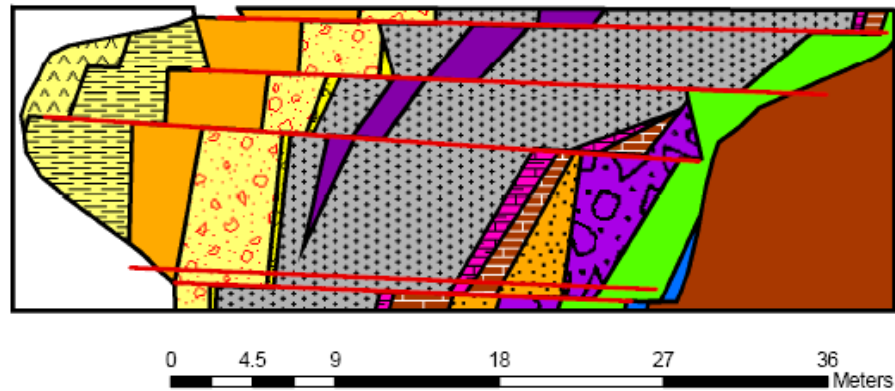


FIGURE 3.6. Geologic map of Trench LFG-007 in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 11-15.

Legend

LFG-008

Unit



C



I



J



K



M



N



N1



O



O1



R



S



U

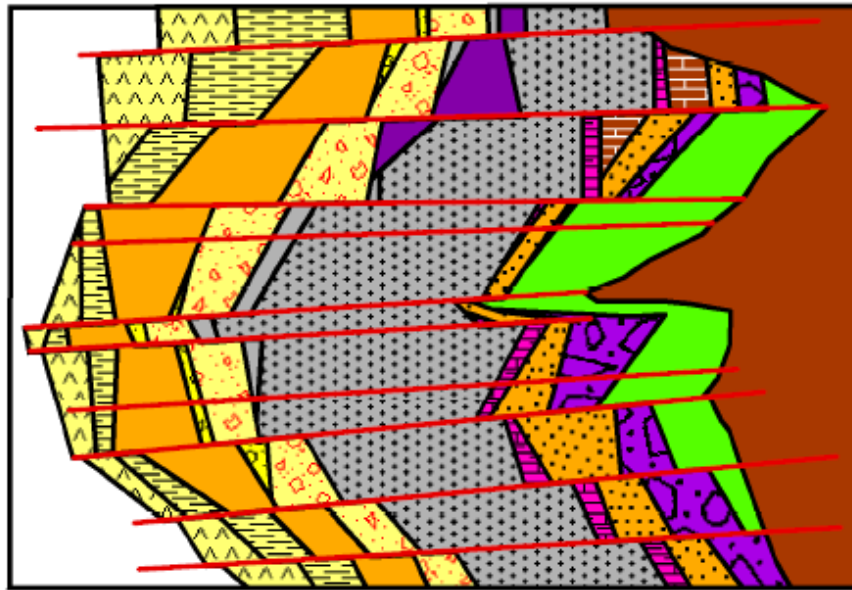


V

covered



pushed



0 4.5 9 18 27 36 Meters

FIGURE 3.7. Geologic map of Trench LFG-008 in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 16-20.

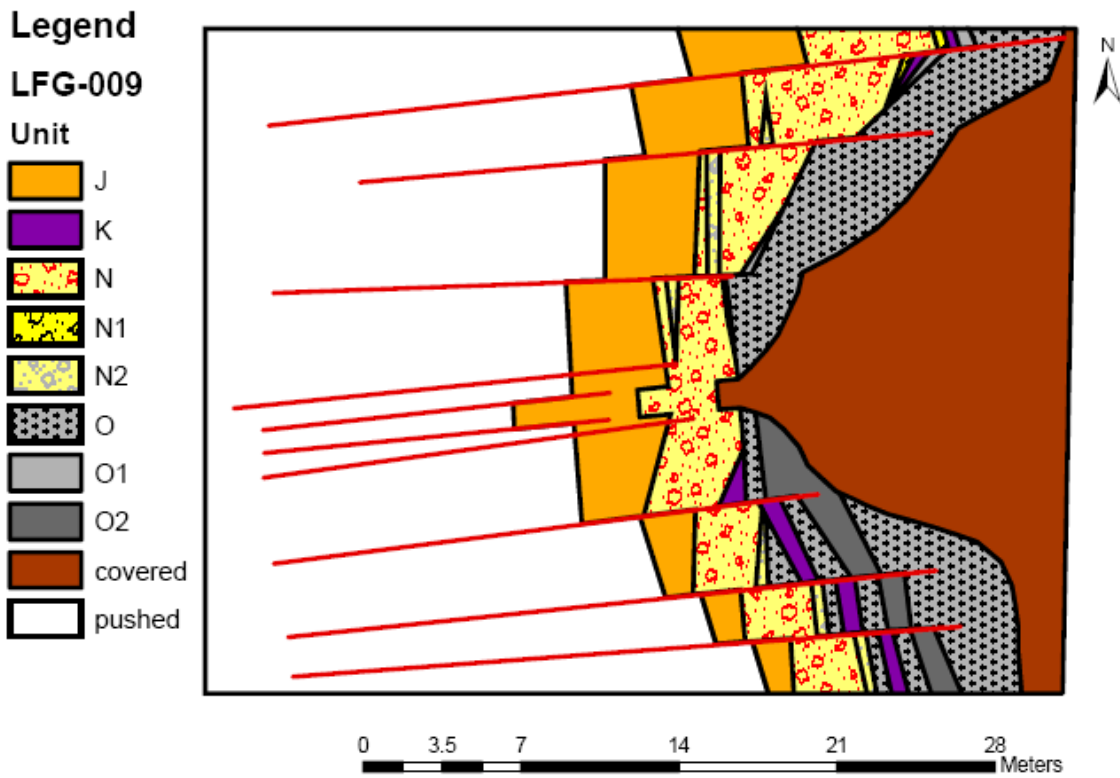


FIGURE 3.8. Geologic map of Trench LFG-009 in the stable portion of GHN rock pile. Offsets show bench wall locations and are not faults. Units are described in Table 13. Red lines indicate the edge of each bench. Includes benches 21-25.