The Modified ABA test results in a characterization of the material as either having a large potential to generate acidity, a potential for no acid generation or, if the results fall within a certain range, uncertainty with respect to net acid generation potential. While there are different approaches to the interpretation of Modified ABA tests, the net neutralising potential (NP-AP) is often used as a general indicator of the potential for acid generation and the ratio of NP/AP is also used as an interpretative guideline.

The following interpretation of the potential for acid generation is based on our review of the sulphur species concentrations, carbonate values, the AP, NP and net NP values and the NP/AP ratios. When considering this summary it is important to keep in mind that the Modified ABA test method provides an indication of the potential for acid generation. Whether or not acidic drainage will result is largely a function of the mineralogy, the availability of each acid generating and neutralising mineral present, the physical characteristics of the material and the environmental setting.

The following table groups the samples analysed according to these broad categories.

Acid Generation Potential (AGP)	Sample Identifiers	General reasons for classification (with some exceptions)
Strong AGP		Sulphide > 0.3% Negative net NP (< -20) NP/AP ratio <1
Medium AGP		Sulphide > 0.2% Negative net NP (> -20) NP/AP ratio <1
Low AGP		Sulphide < 0.3% Low NP Negative net NP NP/AP ratio <1
Uncertain possible AGP or NP		Low AP Low NP NP/AP ratio between 1 and 3
Low NP		Sulphide < 0.1% Low NP
Medium NP	Leached residue	Sulphide <0.5% Positive net NP (> 10) NP/AP ratio > 3
Strong NP		Strongly positive net NP (> 20) NP/AP ratio > 4 High carbonate

Senior Environmental Chemist

Static Acid Rock Drainage Test Report

Client Information

Project:	Valencia	**Date Received:**	February 5, 2008
Company:	SGS-LRA	**Quote/Proposal #:**	-
Client Contact:	Ronel O'Connell	**CCLAS #:**	LA044995
Order Number:	-	**No. of Samples:**	1

Test Information

Test Method: **Modified EPA ABA (Lawrence)**

Sample ID:	Leached residue					
Fizz Rating:	1					
Paste pH:	11.9					
Sample Weight (g):	1.98					
Normality HCl (N):	0.110					
Total HCl added (ml):	20.0					
Normality NaOH (N):	0.099					
Total NaOH added (ml):	14.2					
NP:	20.1					
AP:	0.31					
Net NP:	19.7					
NP/AP:	64.2					
Total S (%):	0.07					
Sulphide S (%):	0.01					
SO_4 (%):	0.18					
CO_3 (%):	0.12					

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