

**VOLUME 3 – APPENDICES
AQUIFER PROTECTION PERMIT APPLICATION**

**WEST PLANT SITE
SUPERIOR MINE
SUPERIOR, ARIZONA**

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Submitted to:

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ACID-BASE ACCOUNTING RESULTS FOR SELECT GILA CONGLOMERATE DRILL CUTTINGS SAMPLES

Well Identification	Sample Depth (ft bgs)	Net Neutralizing Potential ^a	NP/AP	AP ^a	NP ^a	Total Sulfur (%)	Non-extractable Sulfur (%)	Pyritic Sulfur (%)	Sulfate, Sulfur (%)	Material Classification
GAI-02-01 (North Well)	60 to 70	76.5	>255	<0.3	76.5	0.02	<0.01	<0.01	0.01	Gila Conglomerate
	140 to 150	NA	NA	NA	106	NA	NA	NA	NA	Gila Conglomerate
	180 to 190	NA	NA	NA	86.7	NA	NA	NA	NA	Gila Conglomerate
	250 to 260	NA	NA	NA	85.4	NA	NA	NA	NA	Gila Conglomerate
	350 to 360	NA	NA	NA	66.3	NA	NA	NA	NA	Gila Conglomerate
	380 to 390	75.9	127.5	0.6	76.5	0.03	<0.01	0.02	<0.01	Mudstone/Siltstone
GAI-02-02 (South Well)	40 to 50	84.1	>280.3	<0.3	84.1	0.02	0.01	<0.01	0.01	Gila Conglomerate
	90 to 100	58.3	195.3	0.3	58.6	0.02	0.01	0.01	<0.01	Mudstone/Siltstone

Notes:

^a = units are kilograms of CaCO₃ per ton material

ft bgs = feet below ground surface

NP = Neutralizing Potential

AP = Acid Potential

NA = Not Analyzed

< = concentration less than detection limit

> = concentration greater than detection limit