

## **Introduction:**

Desktop studies were performed to identify areas of which could be likely to contain payable alluvial gold deposits. Subsequently during the reporting period, NQM representatives travelled to site (EL29966).

During the site visit 5 micro bulk samples were collected from the same drainage system in the southeast of the tenement.

The samples taken were contained within the tertiary alluvial gravels of the drainage system.

Samples were then bagged, and sent to Adelaide for testing using the companies (NQM) own alluvial gold sampling plant.

The company (NQM) has a procedure for micro bulk sampling  
*“NQM – Alluvial micro bulk sampling process”*

This procedure is attached.

## **Test work and observations:**

Of five samples, the following observations noted:

- There was minimal quartz contained in the gravels
- Some the quartz was angular, and sharp indicating that it had not travelled far.
- A lack of black sands (heavy minerals) was present in the final concentrates.

## **Results:**

Results were disappointing with the concentrates producing no gravity amendable free gold. The concentrates, after they were inspected for free gold were subjected to treatment using an ultrasonic bath with a 50:50 Hydrochloric acid and water solution. The acid treated concentrate was then inspected through the aid of

microscope for free gold. The results for this were also negative for visible free gold.

**Locations:**

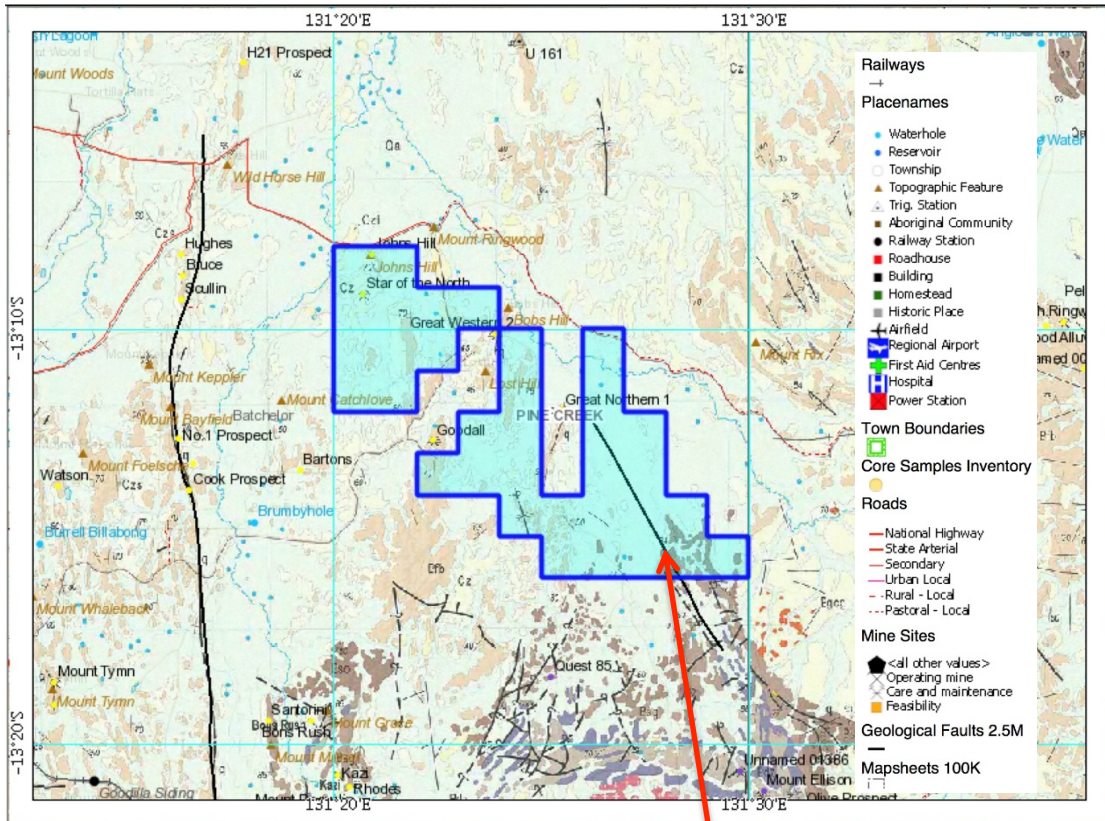


Figure 1

**SAMPLE AREA**

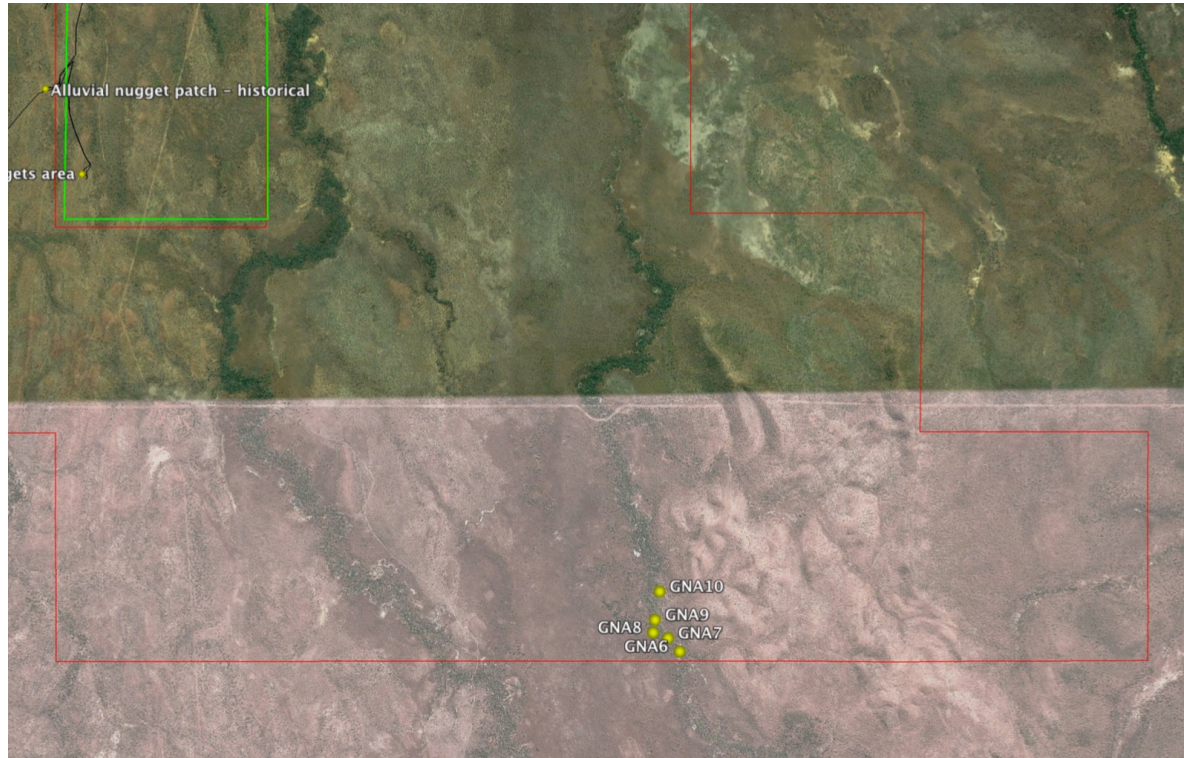


Figure 2

### SAMPLE LOCATIONS

<u>Sample Id</u>	<u>Sample weight</u>	<u>Northing</u>	<u>Easting</u>	<u>Elevation</u>
GNA6	34.1	52L 8532104.00	767156.00	57 METERS
GNA7	32.6	52L 8532216.00	767060.00	57 METERS
GNA8	33.8	52L 8532263.00	766936.00	58 METERS
GNA9	30.9	52L 8532368.00	766953.00	58 METERS
GNA10	32.7	52L 8532603.00	766994.00	58 METERS

## **NQM – ALLUVIAL MICRO BULK SAMPLING PROCESS**

### **1) WEIGHING**

100% sample weighed using calibrated scales.

### **2) TUMBLING OF SAMPLE**

A concrete mixer is used to tumble the sample with a cap full of biodegradable detergent to break up any clay present in sample (10 minutes)

### **3) SCREENING SAMPLE**

Sample is screened using a 4-deck stainless steel 20-inch SWECO vibratory screen to +6mm, -6mm to +3mm, -3mm to +1.2mm, -1.2mm to +400 micron and -400 micron.

### **4) GEMINI SHAKER TABLE**

-3mm to +1.2mm, -1.2 mm to +400 micron and -400 micron samples are fed onto the table in three separate stages.

### **5) NO 1 GEMINI SHAKER TABLE CONCENTRATES (firsts) VISUALLY INSPECTED**

Concentrates are visibly inspected for gold and photographed if gold is visible. Photographing includes sizing in mm scale.

### **6) NO 2 GEMINI SHAKER TABLE CONCENTRATES (seconds) VISUALLY INSPECTED**

Concentrates are visibly inspected for gold and photographed if gold is visible. Photographing includes sizing in mm scale.

### **7) NO 3 GEMINI SHAKER TABLE CONCENTRATES (thirds) VISUALLY INSPECTED**

Concentrates are visibly inspected for gold and photographed if gold is visible. Photographing includes sizing in mm scale.

### **8) INSPECTION OF +6mm, -6mm to +3mm**

Inspection of these samples is done manually using a panning method. Photographing includes sizing in mm scale.

### **9) COMPLETE CLEAN UP OF CONCENTRATES**

A complete clean up of concentrates is necessary to prohibit false reporting during the assaying stage. This must include no other material other than the target mineral in the concentrate.

### **8) ASSAYING OF CONCENTRATES**

All concentrates are assayed separately to determine gravity recovery %. 100% of concentrate mineral is assayed and back calculated against head weight (process step 1)