



INTERNAL MONTHLY REPORT

February 2022

Project Namarana Exploration

PR 706/15 - 42 km² (Exploration License)

AE 289/13: 6 Km² (Mining License)

Report Reference Number: **SGC-PNE-MR-FEB-22**

Project Namarana Exploration_Monthly report_February 2022

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1. Introduction

a. Company Background and Project Highlights

MANDINGOLD has been engaged in conducting underground and surface gold mining and related activities, including exploration, processing and smelting. The Company conducts surface mining at Namarana, Mali, West Africa approximately 42 km². The company has been incorporated for the sole purpose of identifying and acquiring potential areas with known gold deposits in the country of Mali.

b. Health, Safety and Environment

All the protective measures are being taken very strictly by the company in order to prevent any miss happening or incident while executing the project. Incidents were not reported during the fieldwork, all team members have been given the required Personal Protective Equipment (PPE). All workers and geologists are provided with enough water to stay hydrated. One medical aid kit is taken to the field daily. The list of PPE used on site include:

- i. Hard Hat
- ii. Eye Protection
- iii. Dust/Face Masks
- iv. Ear/Noise Protection
- v. Safety Gloves,
- vi. Safety Boots

Safety talks occur on a regular basis before the start of work and Prasanna Kumar has been appointed as the on-site Environmental Health and Safety (EHS) officer.

c. Period of tasks involved

Work for this period include;

- Auger drilling = 23 Days
- Drill pad preparation = Prepared as per requirement
- Soil sampling = 23 Days

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All geologists were involved at some stage and the man-hours have also been recorded. From the days in February 2022 a total of 24 days were used for Namarana Exploration Project work. Two shifts were made for Auger drilling and two teams were working for soil sampling simultaneously.

d. Activities Performed

- ✓ Auger drilling
- ✓ Drill pad preparation for auger drilling,
- ✓ Soil sampling
- ✓ Desktop work

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2. Executive Summary

This report consists the details of work and activities done in the month of January 2022, for the Exploration project which belongs to MandinGold as PR 706/15. Along with this the auger drilling program details have also been mentioned in the report which is being carried out in 6 sq.km Mining lease in Namarana. The purpose of these exploration was to determine the gold potential of the MandinGold Concession.

Satellite imagery analysis has been done in preliminary stage to understand the geomorphological features of the concession area that includes structural formation, river pattern, paleochannel, and vegetation and somehow helps to identify illicit mining activities etc.

An exploration of field work program was initiated in the Alluvial plain floodplains, paleochannel, terrace gravels, old and new local mining pits along the Balanko river in concession that is situated at Koulikoro region, Kangaba District in Mali, West Africa.

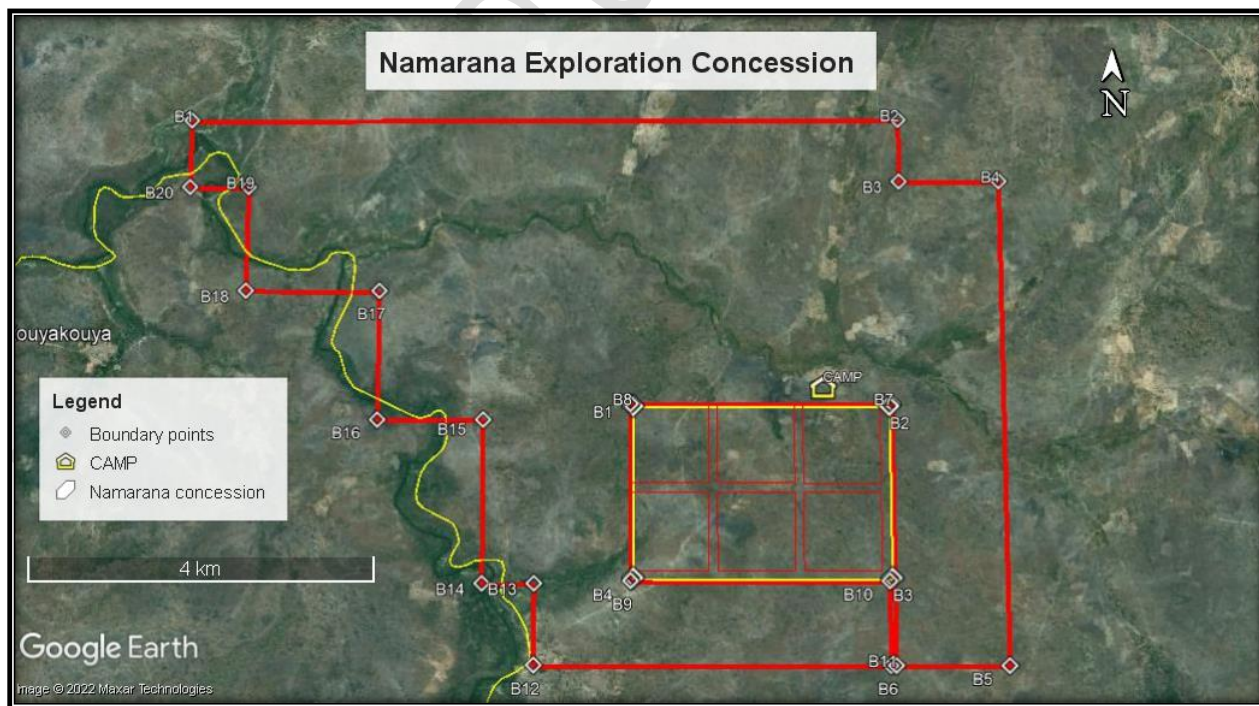


Figure 1: Namarana exploration and mining concession on google earth

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| | |
|------------------------------------|---|
| Company Name | Mandingold Mining SARL |
| License Details | <p>AE 289/13 : 6 Km² (Mining License)</p> <p>PR 706/15 : 42 Km² (Exploration License)</p> |
| Location | Namarana, South Mali |
| Preliminary Work Started From | 22 nd February 2021 |
| Full-Length Exploration Time Frame | <p>24th January 2022 to 23rd July 2022</p> <p>6 Months Program</p> |

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3. Previous Work

- **Field Work and Geological Investigations done**

Field visits and geological investigation were conducted at Namarana in the month of April and May 2021 to investigate points of interest. During the exercise area of illicit mining pit underground rat hole mining have been identified. The northern underground workings depths are approximately 12 m and connect to one another. In profile the underground workings go through duricrust and predominantly red laterite into approximately 5 meters of predominantly yellow laterite.

6 underground pits have been identified within the central area of the mining concession. Initially thought of as water pits, however these pits form a grid-like pattern and have a high possibility of it being previous exploration diggings. These pits will be good for profile sampling during the dry season.

Recognizance visit in order to study the illicit mined-out areas and to study what type of deposit locals were mining. The tailings consist of rounded rocks of mostly quartzite, hornfels, dolerites, smoky quartz and sandstone.

After study of old pits profile, the lithology of the mined- out areas that consist of a shallow dark brown organic material, a thick lateritic zone mottled with clay materials with transitional pallid zone. The pallid bottom zone is mainly Kaolinite.

A transect was done along the stream channel and with the founding of old mining pits, which are all along the river channel and also believe to be a wide paleochannel. The pits are situated along suitable geomorphological features like meanders and ox- bow lakes.

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Figure 2 : Illicit Chinese Pit



Figure 3 : Local artisanal Mining pit

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4. About the area

The Namarana exploration concession is situated in District Kangaba, Koulikoro Region, MALI (West Africa). The area is very close to the guinea border which falls on the western side of the exploration lease boundary. Bomako is the capital and big major city nearby to the area which is approximately 110 kms far from the area. Area is densely vegetated in most of the portions while some of the region in the area is covered with termite fields. Open field covered with laterite capping also makes some portion in the Namarana concession.

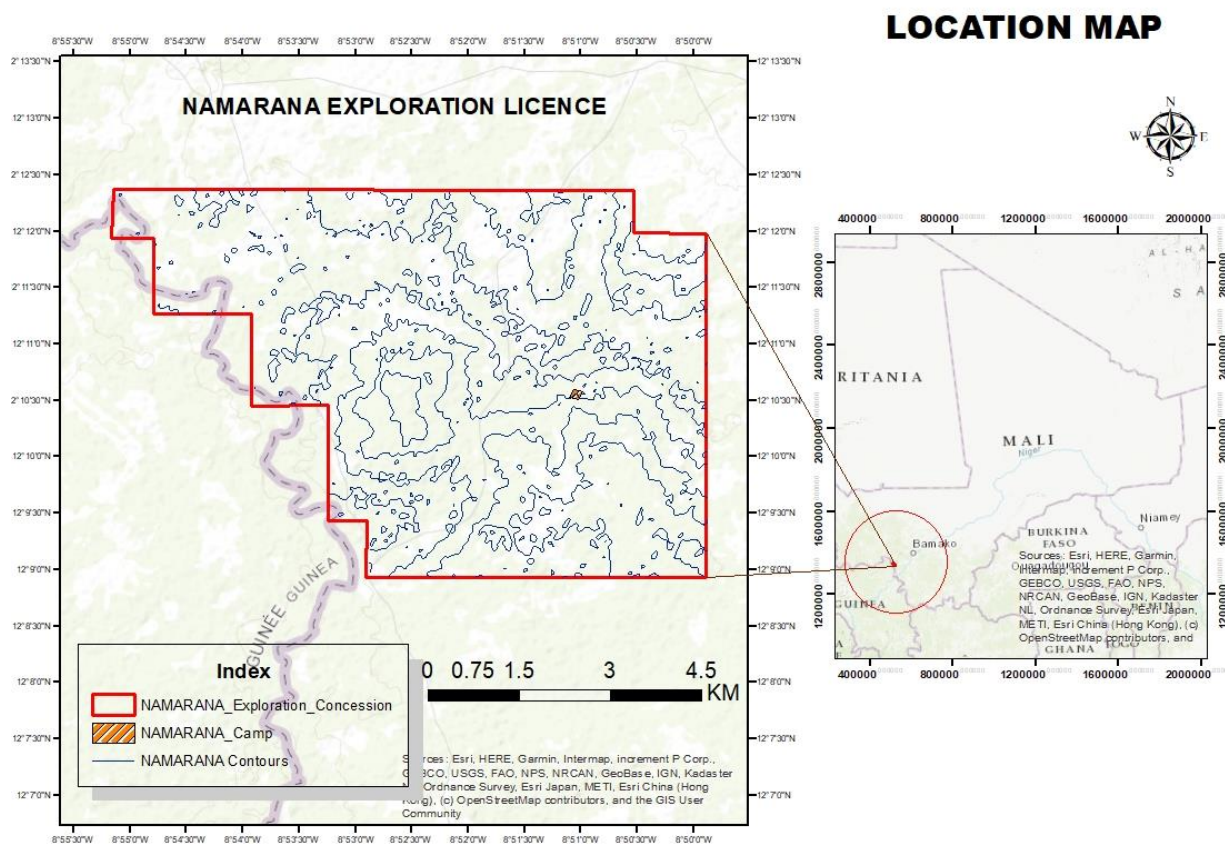


Figure 4 : Location Map of Namarana Exploration License

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The study area is located south of Solofara close to Dangateneh Village, Koulikoro region Southern Mali. The area is relatively flat with an elevation that ranges from 316m to 350m with dwarf grasses and savanna grassland. There are two major rivers in the concession area, Balanko River which is our focus of study and the Kokoro River that borders Mali and Guinea. The Balanko river is flowing SE to NW direction.

From the north, there is a tributary that joins the Balanko River where the Chinese are presently in active operations. At 517514/1346435 E: 319m is a confluence with old illicit workings.

On the South Eastern part of the river, there are evidences that show re-direction of the river channel for mining purpose. From observations, the river is inactive during the dry season but active during the raining season in which the river channel is filled or buried by younger sediment. The map below shows the drainage pattern of the Balanko River and its tributaries.

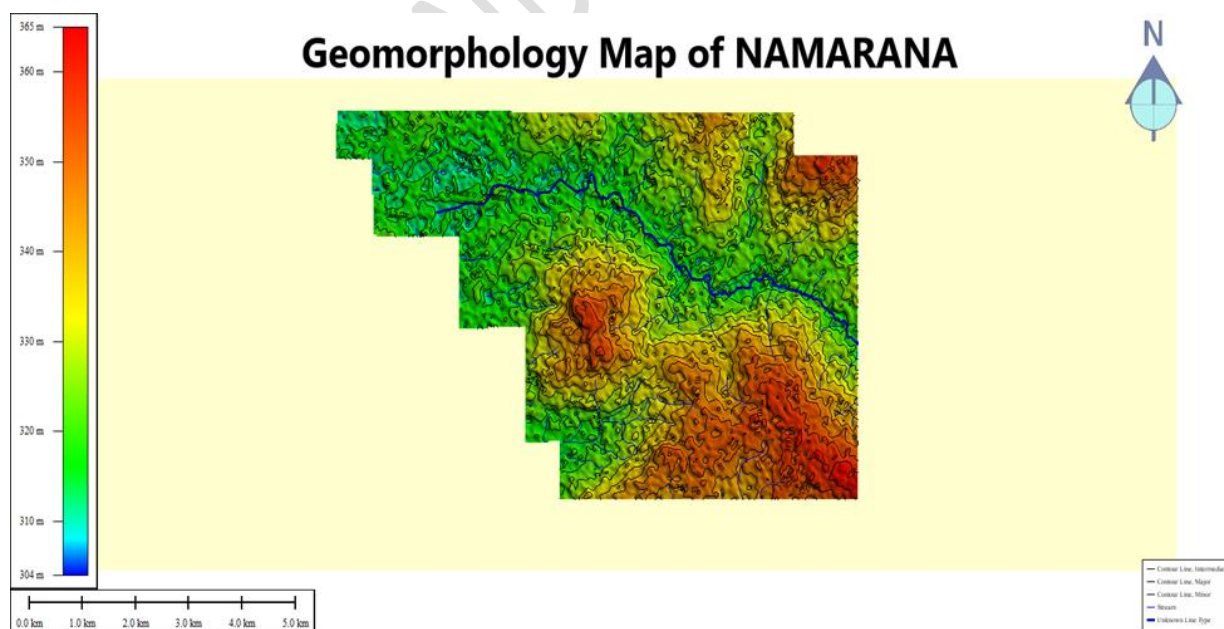


Figure 5 : Geomorphological map of Namarana

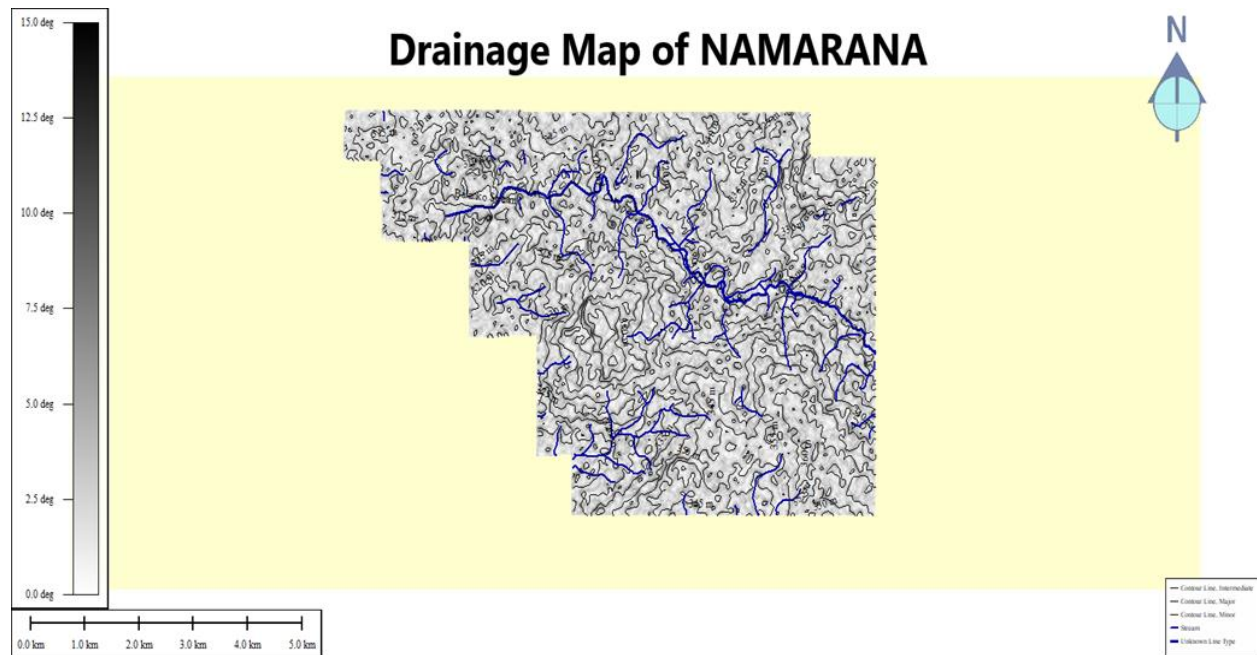


Figure 6: Drainage Map of Namarana

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5. Accessibility

The Project is well connected with the capital city Bamako and the distance from the city to mine is around 110 Km. The mine is located near Namarana Village that is connected to the National Highway of the country going towards Guinea.

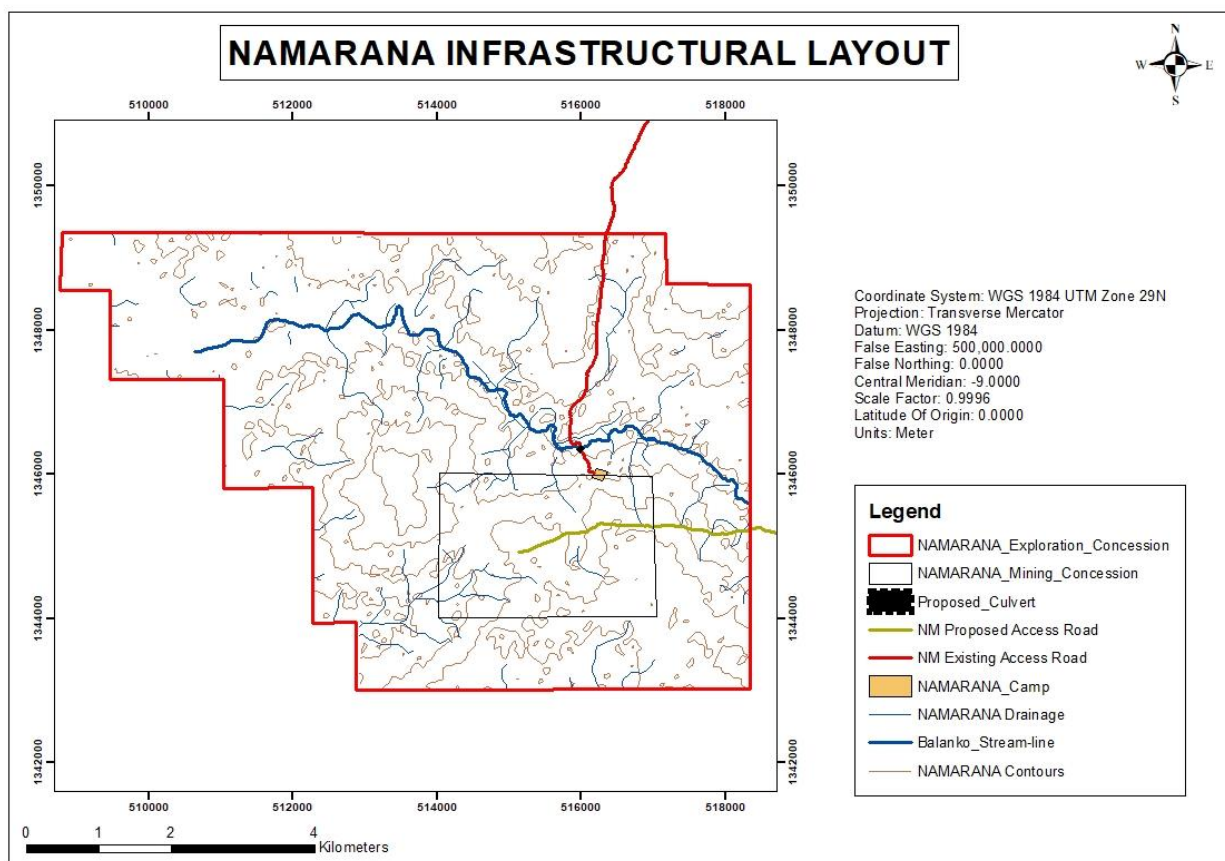


Figure 7 : Infrastructure Map for Namarana

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6. Geology of the area.

The Namarana gold deposit is located in southern Mali near the edge of the middle Proterozoic Birimian Shield of west Africa. Except for a few low hills the area is flat and covered by a thick (40-100 m) laterite profile produced by the alternating wet and dry seasons of the hot tropical climate.

Most gold and base metal deposits in the Proterozoic Birimian Shield of west Africa occur in volcano sedimentary greenstone belts. These belts generally consist of fine-grained sedimentary rocks and tholeiitic to calc-alkaline volcanic rocks. Granitic and gneissic rocks surround the greenstone belts. The metamorphic grade of the belts is usually lower greenschist but may attain amphibolite grade adjacent to major intrusive bodies.

The oxide deposit was expressed on the surface as a series of 3- to 15-m-deep ancient mine workings, which extended 800 m along the strike of the deposit, and sparse outcrops of silicified rock. Oxide ore occurs as two deposits: a surficial deposit consisting of ancient tailings and dump material which are 0.1 to 5 m thick and extend up to 200 m away from the ancient workings; and an in situ "lode" or saprolite deposit which lies immediately below the ancient workings and extends downward into sulfide mineralization.

7. Operations carried out for the Month

Soil Sampling

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- ✓ Soil Sampling
- ✓ Auger drilling
- ✓ Auger drill pad Preparation
- ✓ Auger sample preparation

7.1 Soil sampling

a. Methodology adopted

The grid of 100m * 100m was followed to take the soil samples. The point was navigated with the help of GPS (Garmin Etrex 20x). once the point is located on the field top soil was removed with the help of various digging tools. Soil was collected after removing the surface to the depth of 20cms approximately. Samples bags was duly labeled for each location. Samples were then brought back to the camp site and deposited in the temporary storage area.

The basic tools used during the sampling

- a) Pickaxe, Bar, Shovel, 1mm Sieve (for collection)
- b) Plastic Bags and Empty Rice Bags (for storage)
- c) GPS device (for locating the sampling point)
- d) Blank papers and plastics (For making sample tags)

b. Manpower involved

Two teams had been made for the collection of soil sample. Team includes a geologist and 4 numbers of labor.

c. Transportation

Two motorbikes and one kata-kata were used for the means of transportation. Pick up car were used to drop the team of labor in the morning to the location fixed by Geologist. Two bikes were all the time available with both of the teams in the field during soil sampling. Kata-kata or pick-up car were used to bring back the sample to the camp as per the requirement.

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d. Work done for the Month

Block-NNES has been finished sampling on 24th Feb 2022. The new block (NSW) for soil sampling has started from 25th Feb. A total of 1449 surface soil samples have been collected from North eastern side of the concession area and South western side of the area by following grid of 100m × 100m. Total sampling area can be visually divided into NE, NW, SE and SW sides. For the month February all northern and NE region of the area was covered and completed with soil sampling. North west region started nearly in the ending of the month. It was found that the area is made up mostly of hard duricrust and weathered laterite Mottle zone

| Block | Proposed no of soil samples | Total Number of samples |
|-------|-----------------------------|-----------------------------|
| NNES | 1328 | 1328 Soil samples Completed |
| NSW | 575 | 121 Soil samples |



Figure 8: Illicit pit found during soil sampling



Figure 9: Sample bag

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Figure 12: illicit local mining shaft found during soil sampling



Figure 11: sample bags collected for a day

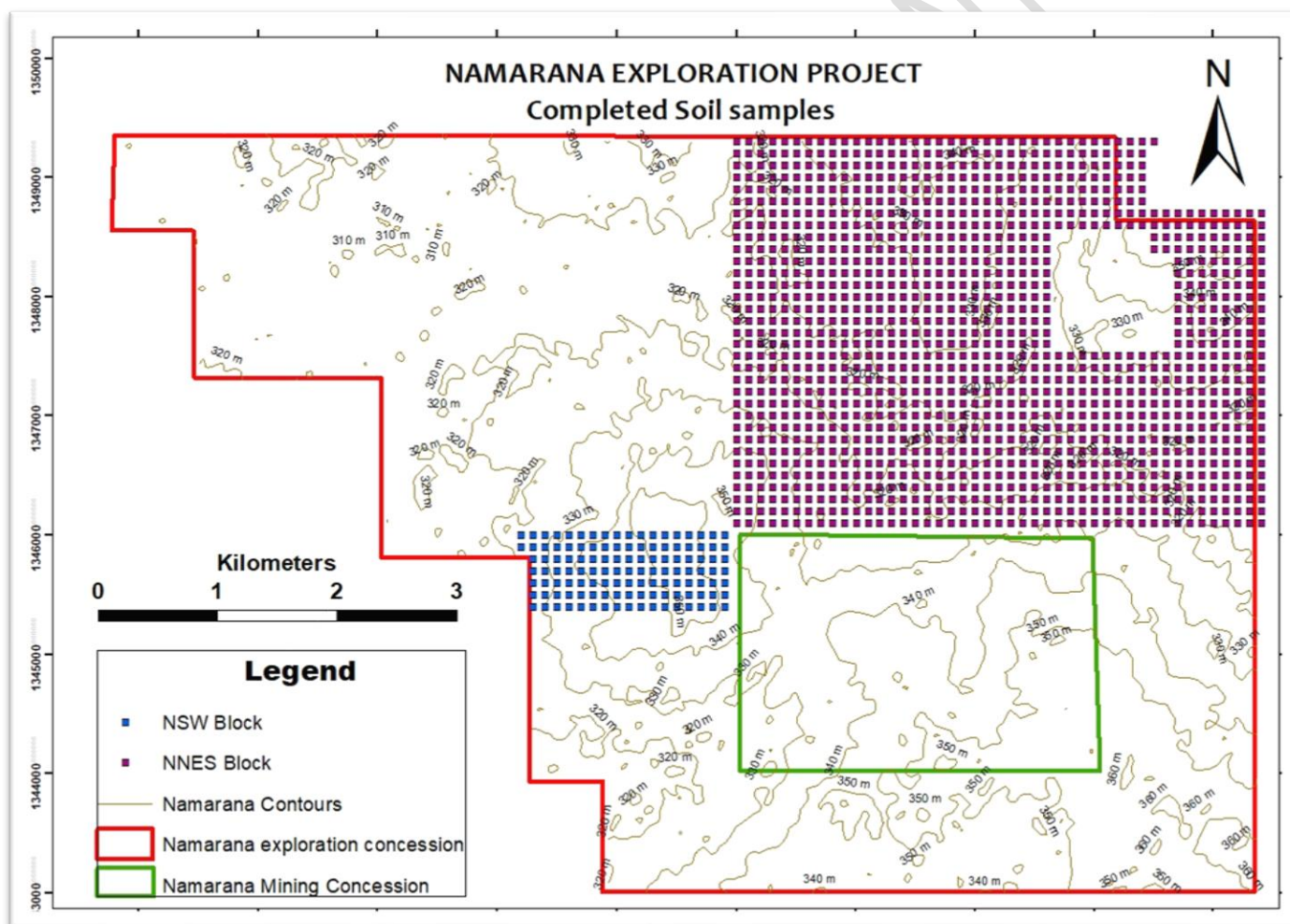


Figure 10: Soil samples done in February

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7.2 Auger drilling

a. Methodology Adopted

The auger drill machine manufactured by PRD is being used for the exploration project for Namarana. It is a truck mounted machine which said capacity is 60m of depth depending on the rock formation.

For auger drilling program the grid of 100m * 100m is being followed in 6 Sq.km of mining concession of Namarana project. Drill pads are kept prepared already before commencing the drilling. The truck mounted auger drilling Machine moves to the location of drilling point. Geologist ensures the drilling point and assist the driller to set the drilling bit on the desired point. All safety measures are duly checked by geologist and driller before the commencement of the drilling. All the rods are neatly cleaned prior to the operation and checked. The desired drilling depth is 60 m for each hole but it could be stopped if certain unfavorable conditions encountered. Samples are collected for every one meter of the depth.

Logging for every borehole is done on the site itself by the Geologist in charge. The proper format for log sheet is maintained and updated as per the requirement.

The basic tools used during the Auger drilling

- a) Drilling Rods
- b) Hammer
- c) nails
- d) log sheets
- e) sample bags
- f) GPS device (for locating the drilling point)
- g) Blank papers and plastics (For making sample tags)
- h) Permanent Markers

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b. Manpower involved

Two shifts are made for the auger drilling program for the project. As per the shift requirement one team is allotted for each shift comprising of a geologist, a drilling operator, EHS officer and casual labor. Total 16 hours of work is being performed per day including both the shifts.

Two security persons were deployed for guarding the auger drill machine as machine is kept on the site itself for reducing the transportation time.

c. Transportation

One pick-up car is being used to drop to and fro for the drilling team. One kata kata is being used to carry the various equipment and tools at the drilling site. It is also being used to bring the drilling sample bags back to the camp as per requirement. one bike is allocated all time to each team for any emergency in case.

d. Total work done for the month

Total 102 numbers of auger drill hole have been completed for the month of February out of which two holes were relocated from its original position named as NM/A-11(R) and NM/A-44(R). Relocation was made due to the inaccessibility to the original location. All the sample bags were collected and kept in dedicated auger sample storage area in the camp. All the sample bags were duly labeled and checked by the on-site geologist.

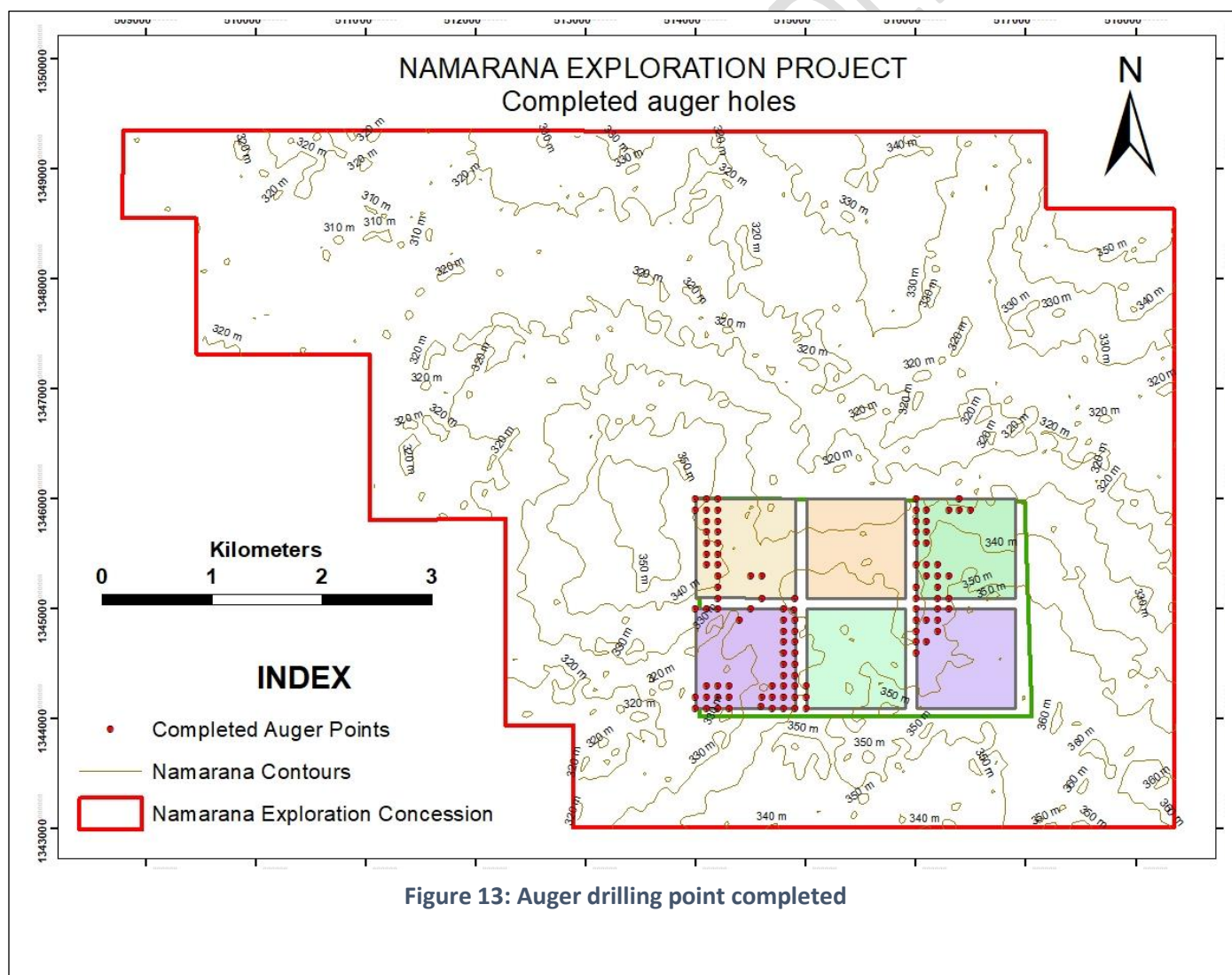
| Date | Proposed | Completed | ID | Remaining | Total meterage completed/day (mts) | Total meterage (mts) |
|--|----------|-----------|---|-----------|------------------------------------|----------------------|
| In continuation from the month of January... | | | | 157 | | 729 |
| 01-02-2022 | 178 | 3 | NM/A-57, NM/A-56, NM/A-47 | 154 | 122 | 851 |
| 02-02-2022 | | 3 | NM/A-48, NM/A-49, NM/A-52 | 151 | 96 | 947 |
| 03-02-2022 | | 5 | NM/A-51, NM/A-50, NM/A-53, NM/A-54, NM/A-55 | 146 | 161 | 1108 |

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| | | | | | | |
|------------|--|---|---|-----|-----|------|
| 04-02-2022 | | 4 | NM/A-61, NM/A-67, NM/A-74, NM/A-76 | 142 | 142 | 1250 |
| 05-02-2022 | | 4 | NM/A-78, NM/A-80, NM/A-83, NM/A-82 | 138 | 150 | 1400 |
| 07-02-2022 | | 4 | NM/A-81, NM/A-84, NM/A-79, NM/A-77 | 134 | 161 | 1561 |
| 08-02-2022 | | 4 | NM/A-75, NM/A-73, NM/A-66, NM/A-60 | 130 | 163 | 1724 |
| 09-02-2022 | | 5 | NM/A-45, NM/A-43, NM/A-41, NM/A-39, NM/A-38 | 125 | 151 | 1875 |
| 10-02-2022 | | 5 | NM/A-37, NM/A-36, NM/A-34, NM/A-32, NM/A-30 | 120 | 167 | 2042 |
| 11-02-2022 | | 4 | NM/A-23, NM/A-31, NM/A-24, NM/A-15 | 116 | 143 | 2185 |
| 12-02-2022 | | 4 | NM/A-14, NM/A-13, NM/A-12, NM/A-11 R | 112 | 164 | 2349 |
| 14-02-2022 | | 3 | NM/A-20, NM/A-21, NM/A-28 | 109 | 127 | 2476 |
| 15-02-2022 | | 3 | NM/A-33, NM/A-35, NM/A-22 | 106 | 102 | 2578 |
| 16-02-2022 | | 4 | NM/A-29, NM/A-40, NM/A-42, NM/A-44R | 102 | 101 | 2679 |
| 17-02-2022 | | 4 | NM/A-46, NM/A-10, NM/A-9, NM/A-8 | 98 | 117 | 2796 |
| 18-02-2022 | | 4 | NM/A-7, NM/A-16, NM/A-17, NM/A-18 | 94 | 106 | 2902 |
| 19-02-2022 | | 6 | NM/A-19, NM/A-27, NM/A-26, NM/A-25, NM/A-131, NM/A- 132 | 88 | 134 | 3036 |
| 21-02-2022 | | 6 | NM/A-144, NM/A- 143, NM/A-133, NM/A-134, NM/A- 135, NM/A-136 | 82 | 156 | 3192 |
| 22-02-2022 | | 7 | NM/A-137, NM/A- 138, NM/A-95, NM/A-96, NM/A-97, NM/A-98, NM/A-99 | 75 | 138 | 3330 |
| 23-02-2022 | | 6 | NM/A-105, NM/A- 110, NM/A-106, NM/A-109, NM/A- 108, NM/A-148 | 69 | 145 | 3475 |

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| | | | | | | |
|-------------------------------------|--|---|--|------------------------|-----|------|
| 24-02-2022 | | 5 | NM/A-147, NM/A-146, NM/A-150, NM/A-149, NM/A-115 | 64 | 136 | 3611 |
| 25-02-2022 | | 5 | NM/A-139, NM/A-140, NM/A-145, NM/A-141, NM/A-142 | 59 | 137 | 3748 |
| 26-02-2022 | | 4 | NM/A-152, NM/A-154, NM/A-162, NM/A-155 | 55 | 112 | 3860 |
| Total number of boreholes completed | | | 102 | Total meterage drilled | | 3860 |



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Figure 17 : Auger drilling operation



Figure 16 : 3000 mts completed of Auger drilling



Figure 15 : Night shift in Auger drilling



Figure 14 : Auger drilling machine



Figure 18: sample collection

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7.3. Drill pads preparation

a. Methodology

Proposed location of the borehole in accordance with exploration plan for Namarana mining concession are fixed already. These locations were navigated with the help of GPS by geologist. After locating the point all bushes and unnecessary measures are cleaned from the drilling point. Approximately 10 meters radius of area from the point is being cleared.

The basic tools used during the Drill pad preparation

- a) GPS device (for locating the drilling point)
- b) Blank papers and plastics (For making sample tags)
- c) Permanent Markers
- d) Pickaxe, Bar, Shovel

b. Manpower involved

One team comprising of a geologist and four casual labor are being used for the drill pad preparation. This operation is being done on the accordance with the requirement of the drilling pads requirement hence, one team from soil sampling is usually allotted this work as per the suitability.

c. Transportation

One pick-up car is used to drop (to and fro) the team on the fixed site for the day.

d. Work done for the month

Sufficient numbers of Drilling pads were prepared on the basis of requirement for the month of February

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Figure 19 : Prepared drill pad Auger drilling

7.4 Auger sample preparation

a. Methodology

- Depending on the quantity and grain size, the sample to be reduce either by coning and quartering or by using riffle divider to around 3 to 5 kgs of size - 10mm.
- The part of reduced quantity (approx.1.0-1.5 kg) is taken for moisture determination.
- The remaining reduced quantity is fed to Jaw crusher / Roll crusher to about 1 kg.
- Mix and reduced the quantity to about 250 g
- This under sieve material is packed in two packets/containers one as Laboratory test sample and other as record sample with all relevant details such as sample mark ID, lot nos, Date of sampling, sample location etc on sample packet/container and register.

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The basic tools used during the Drill pad preparation

- a) Weighing scale
- b) ASTM Test Sieves with Brush
- c) Jaw crusher
- d) Riffle divider
- e) Air compressor (for cleaning purpose)

b. Manpower involved

One team comprising of two geologists and five casual labor are being used for the auger sample preparation currently.

c. Transportation

No transportation needed as the sample preparation work is being carried out inside the camp in allocated sample storage area.


d. Work done for the month

Total 66 numbers of samples were prepared in the month of February.

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Figure 20: Auger prepared sample for Hole NM/A-57

|  | | Sample preparation summary | | | | |
|---|----------------|----------------------------|-------------------------------|---|-------------------------------------|-------------------|
| Month | Program | Total work done | Total samples collected | Total samples prepared for lab analysis | Total samples dispatched to the lab | Remaining samples |
| Feb-22 | Auger drilling | 123 holes | 3860 | 66 | 0 | 3794 |
| | Soil sampling | 1449 sample points | 1449(Including empty samples) | 0 | 0 | 1449 |

----- End of Report -----