SAMPLE REPORT. Public mine used to show the report format; not a customer deliverable and not an assessment of the operator.

OreRank

MONITOR · SATELLITE EVIDENCE OF CHANGE

Monitor report: Çöpler gold mine, Erzincan (public operating mine)

Site	Area	Period	Scenes used
Çöpler gold mine, Erzincan (public operating mine)	2,496.7 ha	2023-Q1 – 2024-Q4	8

Not yet reviewed by a geologist. Do not share outside your team.

Measured areas, alerts and the change map are hidden in this public sample. A customer report shows them in full.

Summary

7 usable periods of 8. Disturbed ground inside the site went from [illegible] to [illegible]; within 2 km outside from [illegible] to [illegible].

Alerts

- HIGH · Disturbed ground outside the licence grew from [illegible] (2023-Q2) to [illegible] (2024-Q4)

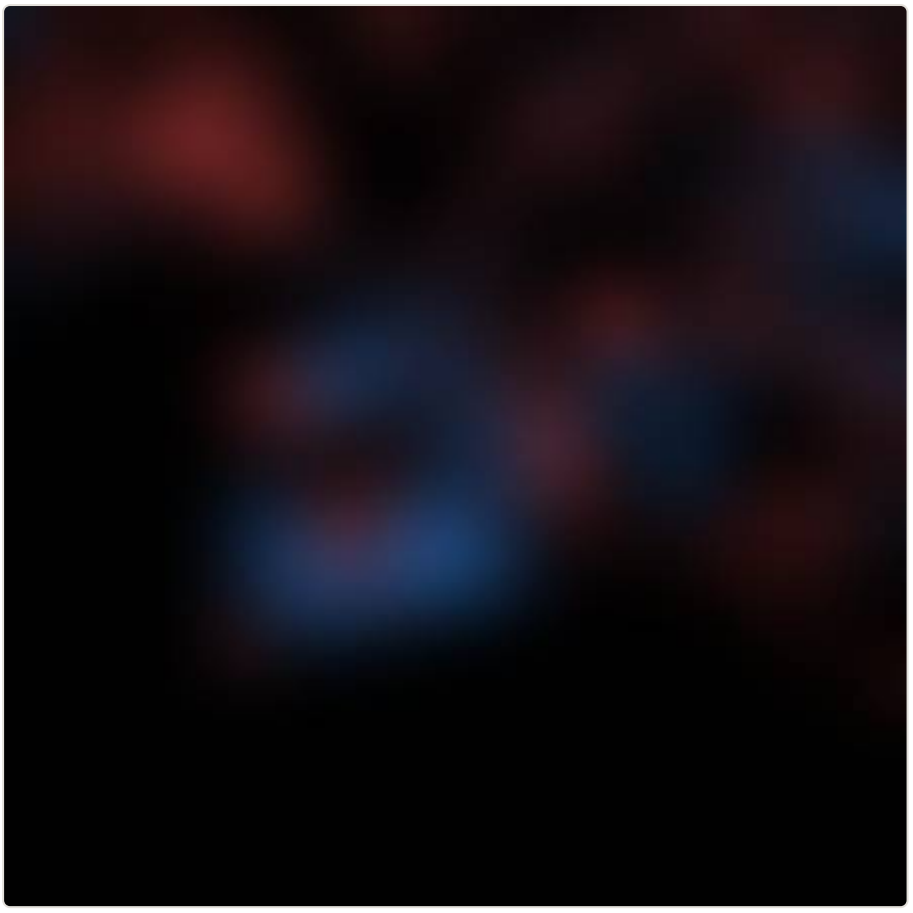
Change over time

— inside — within 2 km outside

Period	Scene date	Valid area	Disturbed inside (ha)	Disturbed within 2 km outside (ha)	Water (ha)	Vegetation (NDVI, buffer)
2023-Q1	2023-02-14	5% · low data quality, not used	—	—	—	—
2023-Q2	2023-05-05	95%	[illegible]	[illegible]	[illegible]	[illegible]
2023-Q3	2023-09-19	96%	[illegible]	[illegible]	[illegible]	[illegible]
2023-Q4	2023-12-18	76%	[illegible]	[illegible]	[illegible]	[illegible]
2024-Q1	2024-03-30	79%	[illegible]	[illegible]	[illegible]	[illegible]
2024-Q2	2024-04-16	96%	[illegible]	[illegible]	[illegible]	[illegible]
2024-Q3	2024-09-26	96%	[illegible]	[illegible]	[illegible]	[illegible]
2024-Q4	2024-11-02	95%	[illegible]	[illegible]	[illegible]	[illegible]

S2B_MSIL2A_20230214T082009_R121_T37SDD_20240816T003223 ·
S2B_MSIL2A_20230505T081609_R121_T37SDD_20230505T125910 ·
S2B_MSIL2A_20230919T080609_R078_T37SDD_20241031T145014 ·
S2B_MSIL2A_20231218T081249_R078_T37SDD_20231220T092744 ·
S2B_MSIL2A_20240330T081609_R121_T37SDD_20240330T115155 ·
S2B_MSIL2A_20240416T080609_R078_T37SDD_20240416T111834 ·
S2B_MSIL2A_20240926T081619_R121_T37SDD_20240926T112013 ·
S2B_MSIL2A_20241102T081009_R078_T37SDD_20241102T093844

Change map



Red: new disturbance between the first and last usable period. Blue: disturbance removed or recovered. The image covers the site and a 2 km buffer.

Method

- **Pixel size (m)**: 20
- **Buffer around the site (m)**: 2000
- **Disturbed ground**: BSI > 0.05 and NDVI < 0.15, excluding water, bare in every valid observation of up to 3 scenes from different months per period (persistence filter against seasonal farmland)
- **Water**: MNDWI > 0.1 or SCL water
- **Maximum scene cloud cover (%)**: 20

What this report does and does not show

- Disturbed ground means bare, unvegetated surface that persists across scenes; it includes pits, dumps, pads, roads and some natural bare ground.
- Optical satellites cannot see slope stability or pad integrity. Ground deformation needs radar (InSAR), offered separately as a pilot.
- Periods with less than 60% valid (cloud- and snow-free) area are shown for transparency but not used for alerts.
- Areas are from 20 m pixels; small changes (under about 1 ha) are below what the method resolves.
- This is independent satellite evidence, not a regulatory inspection, environmental audit or geotechnical assessment.