



MINISTRY OF EMERGENCY SITUATIONS REPUBLIC OF KAZAKHSTAN

TRAINING AT THE TAILINGS FACILITY: PAST EXPERIENCE IN KAZAKHSTAN



UNECE



UNECE Convention on the
Transboundary Effects of
Industrial Accidents

**Assistance
Programme**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Office for the Environment FOEN

The main beneficiary of the project was [Kazakhstan](#) and its competent authorities and operators

In November 2018, the [launch](#) of the Pilot Project was officially announced in Astana

The pilot project was designed for a two-year period and was implemented with financial assistance provided by the [Swiss Federal Office for the Environment](#)

The [aim](#) of the project is to strengthen the safe management of tailing management facilities (TMFs) and to contribute to the improvement of cooperation structures and mechanisms in Kazakhstan and other Central Asian countries



**ПРОЕКТ ПО УКРЕПЛЕНИЮ БЕЗОПАСНОСТИ
ГОРНОДОБЫВАЮЩИХ ОПЕРАЦИЙ, В
ЧАСТНОСТИ ХВОСТОХРАНИЛИЩ, В КАЗАХСТАНЕ
И ЗА ЕГО ПРЕДЕЛАМИ В ЦЕНТРАЛЬНОЙ АЗИИ**

Inception meeting

Pilot project to strengthen the safety of mining operations , in particular tailings management facilities (TMFs), in Kazakhstan and beyond in Central Asia
(November 2018, Astana)

Further key actions:

- Updating and supplementing data for inventory and mapping (December 2018);
- Completion of inventory and mapping activities, with support from international experts (January 2019);
- Selection and preparation of the site for the visit, preparation of preliminary site information for the checklists (May - June 2019).



Industrial safety monitoring is carried out at **121** technical facilities (tailings dumps, sludge storage facilities), including:

- **93** are in **operation**;
- **20** temporarily out of service;
- **2** objects under conservation;
- **2** facilities decommissioned;
- **4** objects are (on conservation) on the balance of the republican and local executive bodies.

These structures are located on the territory of **11** regions of the republic.

There are **no structures** in the cities of national significance of Nur-Sultan, Almaty, Shymkent and the regions of Atyrau, Kyzylorda and West Kazakhstan.



Tailings

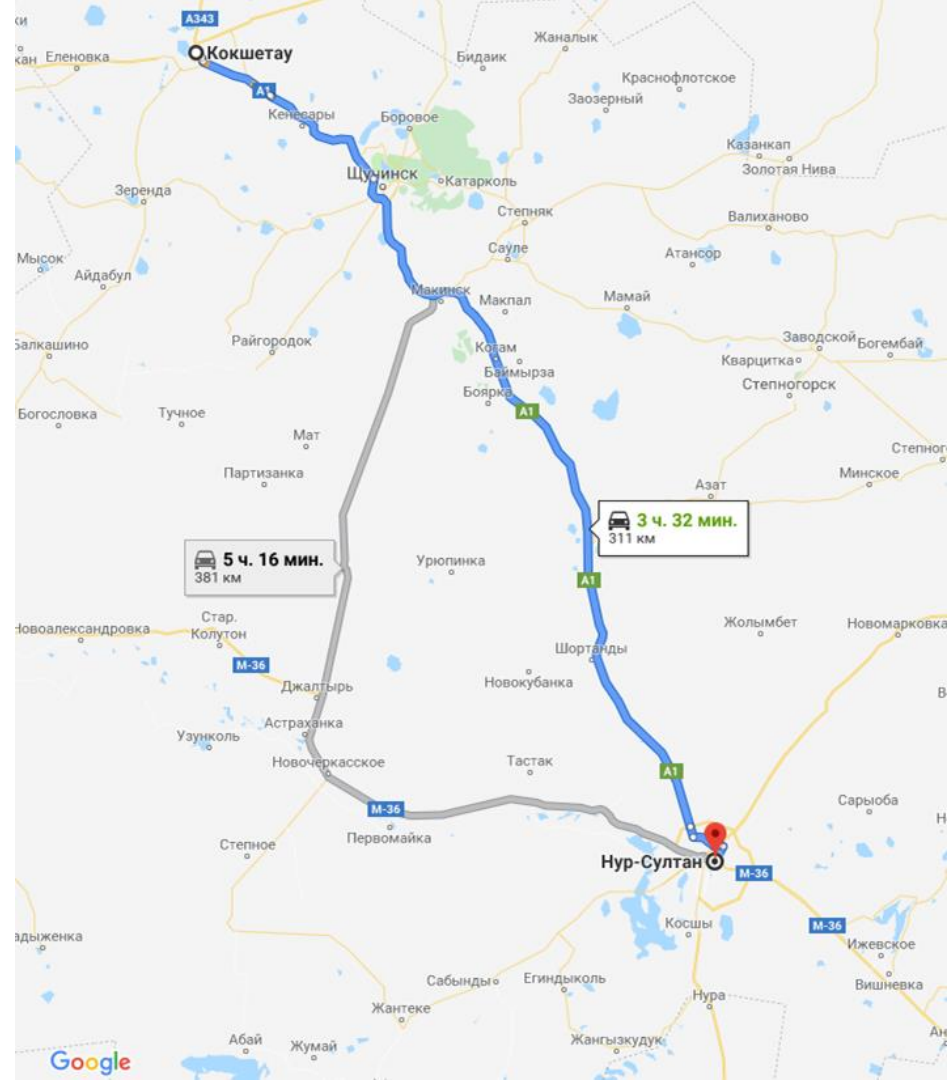
storage facility of the processing plant of JSC "Altyntau Kokshetau" (Altyntau Kokshetau)

It is located in the [Zerendinsky district of the Akmola region](#), 18 km north of the city of Kokshetau and 330 km from the city of Nursultan

Built and commissioned in [2009](#)

Currently, the tailings storage facility contains tailings materials stored by the alluvial method.

The starting dam is filled with a stone outline; the height of the tailings dam made of clay sand is 23 m.



On-site training

workshop on assessment issues within the framework of UNECE projects to strengthen the safety of mining operations, in particular tailing management facilities (TMFs) in Kazakhstan, Tajikistan and further in Central Asia

Asia

(11-13 June 2019, Kokshetau)



The hydraulic structures of the gold recovery plant include:

- flotation tailings storage;
- sorption tailings storage;
- a sump pond.

The technological process is automated, controlled and controlled by the dispatcher, as well as the driver of the pumping units.

All possible emergencies (including the potential destruction of the dam) are taken into account in the safety declaration.



The participants of the training visited the enterprise, where they got acquainted with brief information about it, received safety instructions and visited the control center for the supply of tailings materials to the tailings storage facility.

The participants of the training were divided into two subgroups and conducted an inspection of the tailings storage facility, which made it possible to objectively compare their results when filling out the Checklist and assessing the level of safety.



Thank you for attention!

