

Key achievements on Strengthening Tailings Safety by Central Asian Countries since the 2019 subregional workshop in Almaty

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Subregional workshop in Almaty in Nov. 2019

Strengthening the safety of tailings and preventing accidental water pollution in Central Asia



UNECE Project on Enhancing the Safety of Tailings in Kazakhstan

UNECE Project to support Central Asian countries to improve the safety of tailings

Projects by the German **Environment Agency to improve** the safety of tailings in Kyrgyzstan

UNECE Project to improve the safety of tailings and prevent accidental water pollution in Uzbekistan

2019-2021 2020 2021-2023

2018-2019 2020-2023 2020-2021 2021-2023

UNECE Project on Strengthening the Safety of Tailings in Tajikistan



Project on National Dialogues on **Industrial Safety in Central Asia** (Phase 1: Launch)

UNECE-EU Project "Development of joint measures for the prevention and response to pollution of the Syr Darya river in emergency situations"



























Common Project Approach



Identify and map TMFs, incl. those with transboundary effects

Strengthen national coordination among relevant authorities, operators and other stakeholders on mine tailings safety

Apply the UNECE Safety Guidelines and a related TMF checklist methodology during practical on-site trainings

Strengthen subregional cooperation and coordination, including in river basins

Raising awareness of tailings hazards and related accident risks







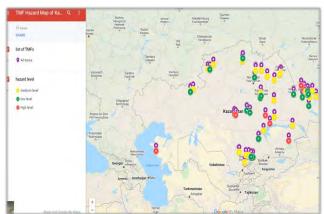






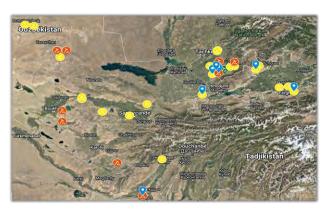
Inventory and mapping of tailings

Interactive map of tailings in Kazakhstan



✓ Inventory and mapping of 121 tailings

Interactive map of tailings in Uzbekistan



✓ Inventory and mapping of 41 tailings

Interactive map of tailings in Kyrgyzstan



✓ Inventory and mapping of 62 tailings

237 tailings management facilities identified in Central Asia



Interactive map of tailings in Tajikistan



✓ Inventory and mapping of 13 tailings

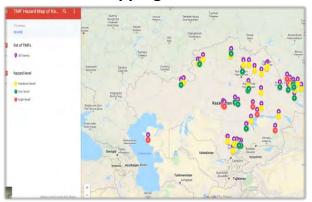
Interactive map of tailings in the basin of the Syr Darya river



✓ Inventory and mapping of 61 tailings

Mapped TMFs with transboundary effects

TMF mapping in Kazakhstan



7 TMFs could have transboundary effects

TMF mapping in Uzbekistan



10 TMFs could have transboundary effects

TMF mapping in Kyrgyzstan



38 TMFs could have transboundary effects

59 out of 237 TMFs may have potential transboundary effects → 25%

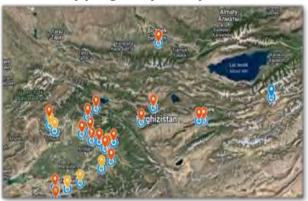


TMF mapping in Tajikistan



4 TMFs could have transboundary effects

TMF mapping in Syr Darya river basin



33 TMFs could have transboundary effects → 19 in KYR, 10 in TAJ and 4 in UZB

Capacity-building to understand TMF risks

UNECE

On-site training in Kazakhstan (2019)

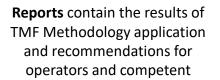
- Held in Kokshetau 11-13 June together with Kyrgyzstan and Tajikistan
- On-site training report was prepared based on safety evaluation of «Altyntau Kokshetau» TMF











authorities to improve TMF safety



meeting

- 2-4 June on-site training in Penjikent and online evaluation workshop
- On-site training report was prepared based on safety evaluation of «Zarafshon» TMF
- E.g: short –term recommended measure:"Develop an action and monitoring plan for TMF closure"





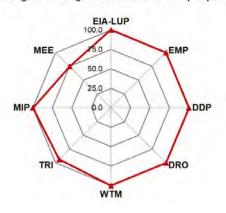








Spider diagram of categorial evaluation for Group 1 questions



Report from the onsite training (Penjikent, Tajikistan, 2-4 June 2021) and results of the application of the tailings management facilities (TMF) Methodology, based on the safety evaluation of the TMF of JV «Zarafshon» (Penjikent, Repu

On-site training in Uzbekistan (autumn 2023)

Inter-institutional Working Group on Tailings Safety and the Prevention of Accidental Water Pollution (IIWGs)



Kazakhstan



- 15 March 2023
 - Second meeting of the IIWG
- 11 February 2022
 - First meeting of the IIWG
- January 2022
 - IIWG was officially established by decree of the Ministry of Emergency Situations

Tajikistan



- 04 April 2023
 - Second Meeting of the IIWG
- 21 October 2022
 - IIWG officially established under the Government
- 02 December 2021
 - Inagural meeting of the IIWG

Uzbekistan



- Consideration on the establishment of IIWG ongoing
- 27 April 2023
 - Inception meeting on the establishment of the IIWG
- 1st quarter 2023
 - Development of draft terms of reference

«Development of joint measures to prevent and respond to pollution of the Syr Darya River in emergency situations»



General Information



Beneficiary Countries:

Kyrgyzstan, Kazakhstan, Tajikistan and Uzbekistan

Duration:

June 2021 – February 2023

Objectives (



Development of joint measures for the prevention and response to pollution



- An in-depth report examining the state of water resources, water quality issues, issues related to policies and institutions in the field of water management, industrial safety and prevention of accidental water pollution. It contains specific recommendations to be implemented by riparian countries
- Inventory and mapping of 61 tailings and 133 other hazardous enterprises in the Syr Darya River Basin
- Infographic and Executive Summary with key takeaways











Joint project of UNECE and UNDRR «Integration of risks of man-made/industrial accidents in national strategies and plans for disaster risk reduction»

General Information



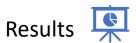
Beneficiary Countries:

- Kyrgyzstan and Tajikistan Dates:
- August 2022 January 2023 More information:
- https://unece.org/environmen t-policy/industrialaccidents/addressingtechnologicalindustrialaccident-risks-national

Objectives



- Integrating the risks of man-made and industrial accidents into programs and plans for the implementation of national strategies for DRR in Kyrgyzstan and Tajikistan
- Integrating the risks of man-made accidents caused by natural disasters (Natech) into political and management practices



- Contextual analysis reports on the risks of technological/industrial accidents in national DRR plans and strategies
- Recommendations for integrating technological/industrial accident risks, including (Natech), and transboundary consideration into national action plans

The project contributed to the achievement of the following priorities of the Strategy for the development of cooperation between the CA countries on DRR:

- Improved understanding of disaster risk
- Strengthening institutional capacity for disaster risk management



ROADMAP FOR IMPROVING THE SAFETY OF TAILINGS IN THE UNECE REGION AND BEYOND



Why is it needed?



Define key goals to improve tailings safety based on decision 2020/1, adopted by Parties



Set the direction, actions and priorities for Parties and Member States in the UNECE region and beyond



Note the activities that the secretariat of the UNECE Convention can carry out in support of parties and other UNECE member countries, as well as cooperation with other international organizations

5 key goals to improve tailings safety

Understanding the risks associated with the operation of tailings facilities, within and beyond national borders

Eliminate tailings risks based on strategy and management Prevention and preparedness for accidental water pollution from tailings to maintain water quality

Prevention of industrial accidents caused by natural hazards and adaptation to climate change

Information and knowledge sharing and capacity building

Roadmap for improving the safety of tailings in the UNECE region and beyond





NEXT Steps



2023-2024

Promote understanding of the risks associated with tailings
Review and update existing measures and legislation

Use existing and create new working groups and national coordination mechanisms

Report tailings as a hazardous activity (10th reporting cycle)

В зависимости от наличия средств

Prepare an overview: tailings facilities in the ECE region, possible existing threats, risks and hot spots

Improve shared understanding and risk management across countries

Facilitate multi-stakeholder dialogue on existing benefits and challenges in the ECE region



2025-2026

How to implement the Road Map in your country?



Review the Road Map for Action (ENG, RUS), define priority actions in your country and report on its implementation at the Conference of the Parties in 2024

By October 31, 2023 - Submit a report for the 10th round of reporting on the implementation of the Convention, incl. on the TMFs in your country

Exchange information about TMFs with possible transboundary effects, good management practices and lessons learnt from past accidents with neighboring countries at the subregional workshop

Online Toolkit for Improving Tailings Safety

Онлайн-инструментарий и подготовка по повышению безопасности хвостохранилищ

Общий обзор

Промышленные аварии на хвостохранилищах уже приводили к экологическим катастрофам с разрушительными последствиями для людей и окружающей среды на территории стран и за их пределами. Крупные промышленные аварии в регионе ЕЭК ООН и за его пределами побудили страны разработать и внедрить инструменты в рамках Конвенции ЕЭК ООН о трансграничном воздействии промышленных аварий для повышения безопасности хвостохранилищ и предотвращения таких аварий в будущем.



Этот онлайн-инструментарий помогает странам в укреплении безопасности хвостохранилищ и практики управления ими. Он служит центральным узлом для всех, кто хочет узнать о важности обеспечения безопасности хвостохранилищ, соответствующей работе и инструментах в рамках Конвенции. В то же время он обеспечивает для стран дистанционную подготовку без необходимости личного присутствия, чтобы улучшить их знания о воздействиях и проблемах, связанных с хвостохранилищами, чтобы применять существующие руководящие принципы, включая инструменты ЕЭК ООН, для повышения безопасности хвостохранилищ. Этот интерактивный инструментарий и подготовка включают в себя четыре раздела в раскрывающихся меню ниже: справочная информация о безопасности хвостохранилищ; трехстадийная практическая учебная подготовка для стран по совершенствованию практики безопасного управления; резюме работы ЕЭК ООН по хвостохранилищам и партнеров; а также дополнительная литература, включающая ключевые доклады и ссылки на источники информации.

Повышение безопасности шахтных хвостохранилищ и улучшение управления ими позволяют странам лучше понимать риски бедствий и управлять ими, в том числе и в рамках межведомственного и межсекторального сотрудничества. Таким образом, эта работа способствует достижению целей Повестки дня на период до 2030 года с ее целями в области устойчивого развития и Сендайской рамочной программы по снижению риска бедствий. Это также укрепляет государственное управление недрами, устойчивую инфраструктуру и устойчивость к бедствиям как в самих странах, так и за их пределами.







 Promotes knowledge of tailings safety through online training on the application of relevant safety guidelines and methodology

Consists of:

- Reference information on the safety of tailings
- Practical training ->3-step approach
- Brief information on UNECE work related to tailings and partners
- Further reading (main reports and links)
- Available at https://unece.org/ru/environment-policy/industrial-accidents/onlayn-instrumentariy-i-podgotovka-po-povysheniyu



Includes tailings safety training video (ENG, RUS)



Thank you for your attention! Questions?

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www.unece.org/env/teia