

Tailings Storage Facilities Disclosure

October 2019



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The information contained in this document is provided as at the date of this document and is subject to change without notice.

EVRAZ Tailings storage facilities

Key facts:

- 3 operating upstream dams owned by EVRAZ ZSMK (since 2003) and EVRAZ KGOK (since 2004)
- All dams have safety zones with no housing and civil facilities allowed
- 1 dam accident at EVRAZ ZSMK, Abagur EP, TSF #2 in 2010 with no significant* impact

EVRAZ dam safety management system:

- Complies with the related legislation
- Covers all stages of dam life cycle including design, construction, operation and closure
- Includes regular safety & environmental monitoring, internal & external audits, risk assessment and mitigation measures
- Provides emergency preparedness plans and risks insurance

Tailings storage facilities outlook, 2019

Impact in case of accident for ■ low ■ medium ■ high

Tailings Storage Facilities	Hazard class	Max height (m)	Status	Raising method	Population	Infrastructure	Environment
EVRAZ KGOK TSF	Very high	111	Active	Upstream			
EVRAZ ZSMK TSF	High	48.5	Active	Upstream			
EVRAZ ZSMK, Abagur EP, TSF #3	Very high	58	Active	Upstream			
EVRAZ Vanadium Tula, TSF	Low	9	Inactive	Downstream			
Abashevskaya Coal Wash Plant, TSF #4	Medium	22	Inactive	Downstream			
EVRAZ ZSMK, Abagur EP, TSF #2	High	36	Closed	Upstream			
EVRAZ NTMK TSF	Low	13,7	Closed	Downstream			

*Significant with respect to litigations, claims, fines, penalties, enforcement proceedings, disputes with environmental regulatory authorities or other liabilities incurred in connection with the breach of environmental rules or regulations means \$50 million.

Source: Company information

EVRAZ Tailings storage facilities

1. "Tailings Dam" Name/identifier	EVRAZ ZSMK TSF	EVRAZ ZSMK, Abagur Enreacement plant, TSF #3	EVRAZ ZSMK, Abagur Enreacement plant, TSF #2	EVRAZ KGOK TSF	EVRAZ NTMK TSF	EVRAZ Vanadium Tula, New TSF	Abashevskaya Coal Enrichment Plant, TSF #4
2. Location	53.9214, 87.3046	53.6837, 87.2904	53.6986, 87.2577	58.723330, 59.556964	57.967686, 59.911881	54.1447, 37.7493	53.7932, 87.3188
3. Ownership	JSC "EVRAZ ZSMK"	JSC "EVRAZ ZSMK"	JSC "EVRAZ ZSMK"	JSC "EVRAZ KGOK"	JSC "EVRAZ NTMK"	JSC "EVRAZ Vanadium Tula"	JSC "TsOF Abashevskaya"
4. Status	Active	Active	Closed	Active	Inactive	Inactive	Inactive
5. Date of initial operation	1964	1993	1973	1966	1974	1989	1983
6. Is the Dam currently operated or closed as per currently approved design?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7. Raising method	Upstream	Upstream	Upstream	Upstream	Downstream	Downstream	Downstream
8. Current Maximum Height (m)	48,5	58	36	111	13,7	9	22,2
9. Current Tailings Storage Impoundment Volume (Mm ³)	65,15	35,07	Completely filled	938,5	2,8	0,95	0,15
10. Planned Tailings Storage Impoundment Volume in 5 years time (Mm ³)	78	39,51	Completely filled	1 331,60	2,8	0,95	0,15
11. Most recent Independent Expert Review	February 2019	February 2018	December 2016	May 2019	2005	2018	2008
12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or closure.	Yes	Yes	Yes	Yes	No	Yes	No
13. What is your hazard categorisation of this facility, based on consequence of failure?	High	Very high	High	Very high	Low	Low	Medium
14. What guideline do you follow for the classification system?	Classification criteria for hydraulic structures (Decree № 986, 02.11.2013, Government of Russian Federation)						
15. Has this facility, at any point in its history, failed to be confirmed or certified as stable, or experienced notable stability concerns, as identified by an independent engineer .	No	No	Yes, local accident with tailing release on September 19, 2010. Since that date TSF #2 inactive (rehabilitation in process)	Yes, local accident with tailing release on November 2, 1999	No	No	No
16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	Both	Both	Both	Both	Both	Both	Both
17. Has a formal analysis of the downstream impact on communities, ecosystems and critical infrastructure in the event of catastrophic failure been undertaken and to reflect final conditions? If so, when did this assessment take place?	Yes, in 2016	Yes, in 2019	Yes, in 2017	Yes, in 2018	No	No	No
18. Is there a) a closure plan in place for this dam, and b) does it include long term monitoring?	No, No	No, No	Yes, Yes	No, No	Yes, Yes	No, Yes	No, Yes
19. Have you, or do you plan to assess your tailings facilities against the impact of more regular extreme weather events as a result of climate change, e.g. over the next two years?	No	No	No	No	No	Yes	No
20. Any other relevant information and supporting documentation. Please state if you have omitted any other exposure to tailings facilities through any joint ventures you may have.	The last emergency response training: August 2018	The last emergency response training: February 2019	the closure plan is in the process of being implemented.	The last emergency response training: April 2019	Inactive since 2003	The last emergency response training: December 2017	Inactive since 2008



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