



Ust-Kamenogorsk Environmental Remediation Project (P078342)

EUROPE AND CENTRAL ASIA | Kazakhstan | Environment & Natural Resources Global Practice |
IBRD/IDA | Specific Investment Loan | FY 2007 | Seq No: 15 | ARCHIVED on 24-Aug-2015 | ISR20518 |

Implementing Agencies: Committee of Water Resources

Key Dates

Key Project Dates

Bank Approval Date:01-Feb-2007

Effectiveness Date:15-Dec-2008

Planned Mid Term Review Date:28-Mar-2012

Actual Mid-Term Review Date:16-Mar-2012

Original Closing Date:30-Mar-2013

Revised Closing Date:31-Dec-2015

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project has two development objectives: (i) Prevent the groundwater contamination plume's further migration towards the residential areas, the city's sources of drinking water supply and eventually into the Irtys River; and (ii) Strengthen institutional mechanisms for groundwater quality monitoring to enable control of ongoing groundwater pollution from local municipal and industrial sources.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Comp. A. Containment of High-priority Sources of Groundwater Contamination.:(Cost \$22.00 M)

Comp. B. Remediation of Current Contaminated Groundwater Sites.:(Cost \$13.00 M)

Comp. C. Project Management and Monitoring:(Cost \$0.60 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Moderately Unsatisfactory	● Moderately Unsatisfactory
Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Substantial	● Moderate



Implementation Status and Key Decisions

The following key activities have been completed thus far under the Project: (a) site investigation programs; (b) preparation of □detailed design for remediation of six industrial waste dumps, the seventh site was earlier remediated with public funding when the design work for the other sites was carried out; (c) supply of leak detection and laboratory equipment to local stakeholders; and (d) implementation of water leakage reduction program in Ust-Kamenogorsk. The activities (a) and (c) were financed from European Commission co-funding and were completed satisfactorily before its closing date in 2010. The other two activities have been financed from the counterpart financing from Kazakhstan.

Civil works for the physical remediation works for the high priority industrial waste dumps have started as of April 2013. Works at the Kazzinc and the Power Plant dumps under the Project are complete and being handed over. At the capacitor sludge pond, all PCB contaminated water have been treated in accordance with the Kazakh drinking water standards, sludge has been stabilized and covering of the whole area is ongoing. The remediation of the waste dumps at Titanium Magnesium Plant finally started and significant progress has been made in remediation of the dump.

Budget allocations for 2015 still also require management attention in order not to delay the works and project implementation.



Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Low	● Substantial
Sector Strategies and Policies	--	● Low	● Low
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Substantial	● Moderate
Environment and Social	--	● Substantial	● Substantial
Stakeholders	--	● Substantial	● Substantial
Other	--	--	--
Overall	--	● Substantial	● Moderate

Results

Project Development Objective Indicators

- ▶ Reduce level of heavy metals & other hazardous pollutants in groundwater, thereby reducing risk of contamination of city's soil & groundwater system, drinking water wells, & surface water of Irtysh. (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Baseline data will be determined after completion of a 2 year detailed monitoring program and detail design has been prepared.	The current levels of pollutants which are higher than the KZ drinking water and fishing water standards at the key receptors at risk (but lower than international values, except one) are:	The current levels of pollutants which are higher than the KZ drinking water and fishing water standards at the key receptors at risk (but lower than international values, except one) are:	Level of heavy metals pollution in groundwater reduced to below international limits.



		Oktyabirski wellfield Barium- 0.12 mg/l Oil products- 0.58 mg/l Phenol- 0.004 mg/l Alpha activity- 0.11 Bq/L Irtys River Selenium- 0.006 mg/l Manganese- 0.026 mg	Oktyabirski wellfield Barium- 0.12 mg/l Oil products- 0.58 mg/l Phenol- 0.004 mg/l Alpha activity- 0.11 Bq/L Irtys River Selenium- 0.006 mg/l Manganese- 0.026 mg	
Date	30-Nov-2007	11-Mar-2015	16-Aug-2015	31-Dec-2015

► Contaminated land managed or dump sites closed under the project (Hectare(Ha), Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.90	35.00	45.50
Date	15-Dec-2008	11-Mar-2015	16-Aug-2015	31-Dec-2015

► Preventing further pollution of the local underground and aquifer through containment of identified high-risk waste dumps and slurry ponds located in the city area (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No high risk waste dumps and slurry ponds identified for containment.	--	6	7 identified high risk waste dumps and slurry ponds contained through stabilization, dewatering and covering.
Date	30-Nov-2007	11-Mar-2015	16-Aug-2015	31-Dec-2015

► Groundwater quality monitoring system is established and functioning and local institutions are capable of sampling and sample analysis (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No groundwater quality monitoring system established and functioning in local institutions	--	first phase of long term groundwater monitoring program is being procured	Groundwater quality monitoring system is established and functioning and local institutions are capable of sampling and



				sample analysis.
Date	15-Dec-2008	11-Mar-2015	16-Aug-2015	31-Dec-2015

► Direct project beneficiaries (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	300000.00
Date	15-Dec-2008	11-Mar-2015	16-Aug-2015	31-Dec-2015

▲ Female beneficiaries (Percentage, Core Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00

Overall Comments

Intermediate Results Indicators

► Eliminating pollution infiltration into the groundwater from these sites (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No target identified	--	verification can only take place after completion of remediation, for KAZ zinc site this verification is currently being undertaken	Verification of effectiveness of the containment through technical inspections of the structures.
Date	30-Nov-2007	11-Mar-2015	16-Aug-2015	31-Dec-2015





► Capacity of local institutions to implement and manage monitoring program has been increased. (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Current monitoring capabilities are inadequate.	One year of monitoring of groundwater pollution has been undertaken and consultant is in process of handing over the groundwater model Feflow to the Committee of Water Resources	One year of monitoring of groundwater pollution has been undertaken and groundwater model Feflow has been handed to the Committee of Water Resources. Further sampling and analysis is being procured, including training of Vodokanal	Implementation of monitoring program is according to specifications.
Date	30-Nov-2007	11-Mar-2015	16-Aug-2015	31-Dec-2015

Overall Comments

Data on Financial Performance

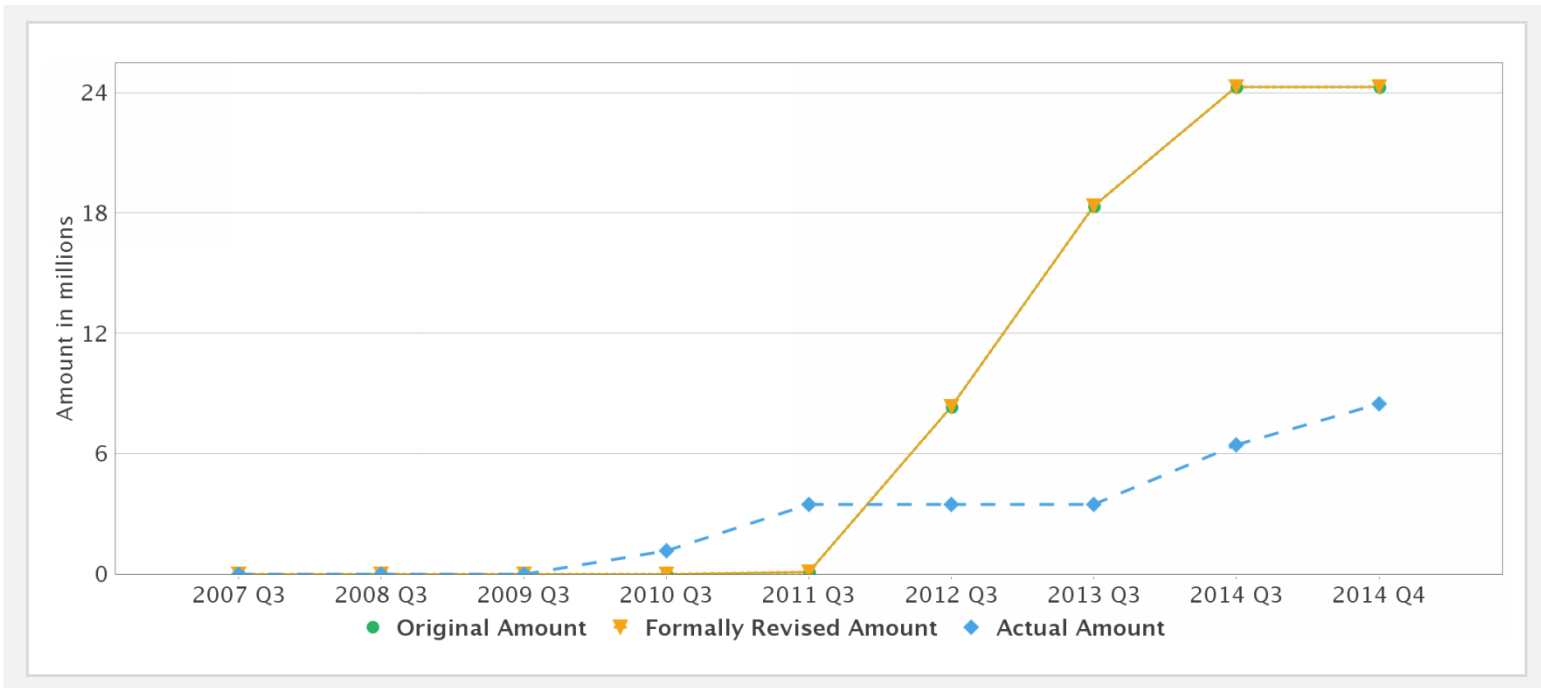
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P078342	IBRD-48480	Effective	USD	24.29	17.29	7.00	5.00	12.29	 29%
P078342	TF-58070	Closed	USD	4.96	3.74	1.23	3.47	0.00	 93%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P078342	IBRD-48480	Effective	01-Feb-2007	02-Feb-2008	15-Dec-2008	30-Mar-2013	31-Dec-2015
P078342	TF-58070	Closed	16-Jan-2008	16-Jan-2008	15-Dec-2008	28-Feb-2010	31-Aug-2010

Cumulative Disbursements



Restructuring History

Level Approved on 26-Mar-2013 ,Level 2 Approved on 22-Dec-2014 ,Level 2 Approved on 13-Mar-2015

Related Project(s)

There are no related projects.