



QUALITY PROTECT (GEF) (P085112)

EUROPE AND CENTRAL ASIA | Bosnia and Herzegovina | Water Global Practice |
Global Environment Project | Specific Investment Loan | FY 2005 | Seq No: 17 | ARCHIVED on 31-Dec-2015 | ISR22335 |

Implementing Agencies:

Key Dates

Key Project Dates

Bank Approval Date:07-Jun-2005

Effectiveness Date:18-Nov-2005

Planned Mid Term Review Date:25-Oct-2010

Actual Mid-Term Review Date:25-Oct-2010

Original Closing Date:30-Jun-2014

Revised Closing Date:28-Feb-2016

Global Environmental Objectives

Global Environmental Objective (from Project Appraisal Document)

The project development objective is to further strengthen the capacity of local utilities and reduce pollution from municipal sources into the Neretva and Bosna Rivers. The global objective is to reduce municipal pollution and nutrients in the Adriatic Sea and the Danube Basin. The sub-objectives are: (i) develop the Wastewater Improvement Plan; (ii) further strengthen the Joint BiH/Croatian Working group, with coordination from Serbia and Montenegro to implement the Wastewater Improvement Plan; (iii) develop and implement high-priority, low-cost water capital investments; and (iv) disseminate information in BiH and the region for replication of project activities at other priority sites in the Balkans.

Has the Global Environmental Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Reduction of River Pollution in BiH:(Cost \$0.45 M)

High-Priority Investments:(Cost \$6.44 M)

Natural Wastewater Treatment:(Cost \$1.28 M)

Project Management

Replication, Information Sharing and Implementation:(Cost \$0.40 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of GEO	● Satisfactory	● Moderately Satisfactory



Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	--	● Moderate

Implementation Status and Key Decisions

The project is progressing towards the achievement of its objectives. Rehabilitation of the Trnovo and Odzak Waste Water Treatment Plants (WWTPs) has been completed and the plants are fully operational. The WWTP in Zivinice was completed in September 2014. The WWTP underwent a period of operational testing through March 2015, and is now fully operational and performing well. Construction of the Mostar WWTP is progressing. Earlier implementation delays have been resolved, and the Government is fully committed to completing the works, however close monitoring and follow up is critical until the construction completion and commissioning of the plant.

Three major studies financed by the project have also been completed: (i) A study on a Wastewater Improvement Plan for reducing River Pollution (WIS), (ii) A study on the Biological Monitoring of the Rivers and Lakes/Reservoirs in BiH (BMS), and (iii) A feasibility study on low-cost, natural treatment of wastewater.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	--	● Moderate
Macroeconomic	--	--	● Moderate



Sector Strategies and Policies	--	--	● Moderate
Technical Design of Project or Program	--	--	● Moderate
Institutional Capacity for Implementation and Sustainability	--	--	● Moderate
Fiduciary	--	--	● Moderate
Environment and Social	--	--	● Low
Stakeholders	--	--	● Moderate
Other	--	--	--
Overall	--	--	● Moderate

Results

Global Environmental Objective Indicators

► Percentage of the effluent discharged according to the national standard.(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	40% of total BiH population is connected to public sewage. 5.5% of municipal waste water is treated and discharged according to existing standards.	Implementation of Mostar WWTP is in progress	Implementation of Mostar WWTP is in progress	After completion of this Project, 11% of municipal wastewater (from population which are connected to public sewage) will be treated and discharged according to new BiH water-environment standards.
Date	15-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

► Feasibility of natural low cost/low energy wastewater treatment solution for small towns and settlement demonstrated (Component C)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No data available.	Completed	Completed	Natural WW treatment Feasibility Study on low cost wastewater treatment given conditions specific to Bosnia & Herzegovina prepared. Preliminary design for at least 3 Pilot Plants selected by FS prepared.



Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015
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► Improved coop. of BiH with institutions in Croatia, Serbia & Montenegro leading to agreement on most aspects of Waste Water Improvement Plan requiring cross-border cooperation. (Components A&E)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Joint BiH/Croatian Working Group is holding meetings.	In progress	In progress	Joint BiH/Croatian Group continues to operat. it is working in coordination with Serbia and Montenegro and this facilitates agreement on majority of aspects requiring cross-border cooperation.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

► Increased quality of the financial management at the utility level (Component E)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No staff trained	--	--	Utilities received financial management training. Each Utility drafts an annual Business plan.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015



▶ 7. Feasibility study to rehabilitate, construct and maintain wetland area(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	not available	Completed	Completed	Study completion.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

▶ Improved/Clarified institutional framework for wastewater management, financing and monitoring (Component A)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No data collection and collaborative planning.	Completd	Completd	Completion of Wastewater Improvement Plan.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

▶ Nutrient pollutionreduction for Mostar:NitrogenAnnual reductionnutrients discharges (P& N kg/yr); avg. oper.cost nutrient reduc.process (\$/kg/nutrients); anl. reduc.BOD discharges(tons/yr); avg op. co(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No data available	Works in progress	Works in progress	Annual reduction in tons per year N=255 t/y; P=44 t/y; BOD5=4400 t/y; Abatement costs: kg/BOD5=US\$0.10; kg/nutrients (N+P)-\$1.1.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

▲ Nutrient pollutionreduction for Mostar:Phosphorous(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0	Work in progress	Work in progress	36 tons/year
Date	--	16-Dec-2014	29-Dec-2015	31-Aug-2015



▸ Nutrient pollutionreduction for Mostar:Nitrogen(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0	Works in progress	Works in progress	226 tons/year
Date	--	16-Dec-2014	29-Dec-2015	31-Aug-2015

▸ Nutrient pollutionreduction for Zevinice –Phosphorous(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0	P total avgerage value for November 2014 is about 2mg/l	Ranges between 0.538 mg/l in March to 0.9 mg/l in July 2015	6 tons /year
Date	--	16-Dec-2014	29-Dec-2015	31-Aug-2015

▸ Nutrient pollutionreduction for TrnovoaVolume (mass) of BODpollution loads removedby the treatment plantsupported under theproject.(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	BOD 35 mg/l	BOD 15 mg/l	BOD 10 mg/l in Nov 2015	Influent: DWF: 200-250 m3/day BOD 35 mg/l
Date	--	16-Dec-2014	29-Dec-2015	31-Aug-2015

▸ Nutrient pollutionreduction for Odzak Volume (mass) of BOD pollution loads removedby the treatment plant supported under the project(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Influent quality: BOD5 - 75 mg/l COD 230 mg/l SS 25 mg/l	BOD = 15mg/l avergae value	BOD = 15mg/l avergae value	BOD 15 mg/l
Date	--	16-Dec-2014	16-Dec-2014	--



▲ Nutrient pollutionreduction for Odzak --COD(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	COD 150 mg/l	COD 30 mg/l Average value	COD 30 mg/l Average value	--
Date	--	16-Dec-2014	29-Dec-2015	--

▲ Nutrient pollutionreduction for Odzak --SS(Text, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	SS - 138 mg/l	SS 15mg/l Average value	SS 15mg/l Average value	--
Date	--	16-Dec-2014	29-Dec-2015	--

Overall Comments

Intermediate Results Indicators

▶ Full compliance with the provisions of the Water Law regulating water sector and issues of environmental pollution reduction (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Interministry Steering Group is working to coordinate water sector development and environmental issues.	Completed Inter-ministerial coordination improved significantly.	Completed Inter-ministerial coordination improved significantly.	Improved inter-ministerial coordination leading to compliance with the main provisions of the Water Law.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	30-Aug-2013



► Country adoption of the affordable water/ environment standards for municipally-based pollution (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Standards not harmonized with EU Directives.	Water law is complete. Guidelines for monitoring of implementation is in place.	Water law is complete. Guidelines for monitoring of implementation is in place.	Country adoption of the affordable water/ environment standards for municipally-based pollution.
Date	18-Nov-2005	16-Dec-2014	29-Dec-2015	30-Aug-2013

► Increased stakeholder awareness and documented stakeholder involvement (number of meetings; number of publications). (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Insufficient cooperation between various stakeholders	Completed	Completed	Increased stakeholder awareness with completion of meetings and publications disseminated. Acces to completed moduls of Water Information System.
Date	15-Nov-2005	16-Dec-2014	29-Dec-2015	31-Aug-2015

► Volume(mass) of BOD pollution load removed by treatment plant under the project (Tones/year, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	375.00	375.00	4000.00
Date	--	16-Dec-2014	29-Dec-2015	31-Aug-2015

Overall Comments

Data on Financial Performance

Disbursements (by loan)

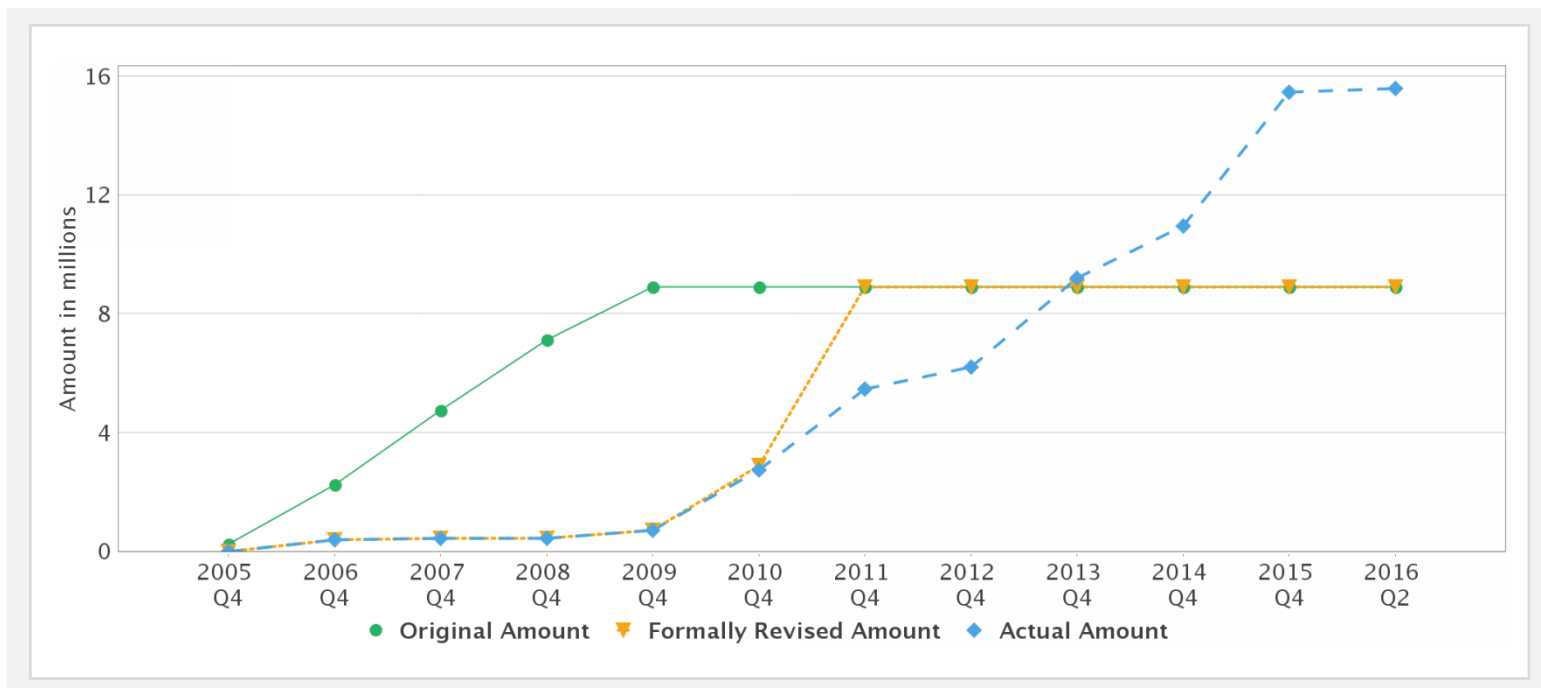


Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P085112	TF-11422	Closed	USD	1.91	1.91	0.00	1.83	0.00	96%
P085112	TF-15208	Effective	USD	5.40	5.40	0.00	0.87	4.39	16%
P085112	TF-55265	Effective	USD	8.90	8.90	0.00	8.72	0.18	98%
P085112	TF-99534	Effective	USD	5.67	5.67	0.00	4.15	1.51	73%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P085112	TF-11422	Closed	30-Mar-2012	30-Mar-2012	30-May-2012	28-Jun-2013	31-Dec-2014
P085112	TF-15208	Effective	12-Jun-2014	12-Jun-2014	11-Nov-2014	30-Jun-2014	28-Feb-2016
P085112	TF-55265	Effective	12-Jul-2005	12-Jul-2005	18-Nov-2005	28-Feb-2011	28-Feb-2016
P085112	TF-99534	Effective	19-Jul-2011	19-Jul-2011	19-Jul-2011	29-Feb-2012	28-Feb-2016

Cumulative Disbursements



Restructuring History

Level Approved on 28-Apr-2010 ,Level Approved on 18-Jan-2011 ,Level Approved on 19-Mar-2012 ,Level Approved on 05-Aug-2013 ,Level 2 Approved on 30-Jun-2015



Related Project(s)

P144163-WATER QUALITY PROTECTION GEF PROJECT ADDITIONAL FINANCING ,P144165-WATER QUALITY PROTECTION GEF PROJECT ADDITIONAL FINANCING
