

SEMI-ANNUAL ENVIRONMENTAL MONITORING REPORT

Project Number: 43405-024

Reporting Period: July-December 2020

**GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM
(TRANCHE 2)
(FINANCED BY THE ASIAN DEVELOPMENT BANK)**

Prepared by: Ketevan Chomakhidze, Environmental Consultant, “United Water Supply Company of Georgia”, Tbilisi, Georgia

For: The Ministry of Regional Development and Infrastructure of Georgia and the Asian Development Bank

Endorsed by: Maka Goderdzishvili, Head, Department of Environmental Protection and Permits, “United Water Supply Company of Georgia”

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ABBREVIATIONS

ADB	Asian Development Bank
DC	Design Consultant
DEPP	Department of Environmental protection, Resettlement and Construction Permit
DPM	Department of Project Management
EA	Executing Agency
EARF	Environmental Assessment and Review Framework
EHS	Environmental Health & Safety
EIA	Environmental Impact Assessment
EIP	Environmental Impact Permit
EMP/ SSEMP	Environmental Management Plan/ Site-Specific Environmental Management Plan
ES/ SES	Environmental Specialist/ Senior Environmental Specialist
GoG	Government of Georgia
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IPMO	Investment Program Management Office
USIIP	Urban Services Improvement Investment Program
IA	Implementing Agency
IEE	Initial Environmental Examination
MFF	Multi-tranche Financing Facility
MEPA	Ministry of Environmental Protection and Agriculture
MoRDI	Ministry of Regional Development & Infrastructure
NEA	National Environmental Agency
SC	Supervision Consultant
UWSCG	United Water Supply Company of Georgia
WSS	Water Supply & Sewerage

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I. INTRODUCTION

1.1 Preamble

1. This report represents the Semi-Annual Environmental Monitoring Review (SAEMR) for “Urban Services Improvement Investment Program” (USIIP), Tranche 2 and describes the period of January-June 2020.
2. This report is the 15th Semi-Annual EMR for the T2 of “Urban Services Improvement Investment Program”.

1.2 Headline Information

3. N/A

II. PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

4. The Urban Services Improvement Investment Program was developed as the Government's response to the lack of adequate and/or safe water supply, sewerage and sanitation in urban areas of Georgia. This is intended to optimize social and economic development in selected urban areas through improved urban water and sanitation services, and is financed by the ADB through its Multi-tranche Financing Facility. The Ministry of Regional Development and Infrastructure is the Executing Agency and the United Water Supply Company of Georgia, LLC is the Implementing Agency of the Investment Program. UWSCG is a 100% state-owned company.
5. The Investment Program will improve infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply and/or sewerage) in one town. Subprojects will rehabilitate existing infrastructure and/or create new and expanded infrastructure to meet the present and future demand. Water supply improvements will include source augmentation and head works, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works will include sewer network, pumping stations, main collectors and waste water treatment plants.
6. Tranche 2 of the Investment Program includes:
 - Construction of Anaklia Water and Sewerage Network (ANA-01);
 - Construction of Mestia Water and Sewerage Network (MES-02),
 - Construction of Anaklia Waste Water Treatment Plant (REG-02),
 - Construction of Water Supply and Wastewater Network in Ureki/Phase II (URE-01).

Status of the projects financed under Tranche 2:

- MES-02, Rehabilitation of Water Supply and Sewerage System in Mestia (completed)
- ANA-01, Construction of Water Supply System and Sewerage Networks in Anaklia (completed)

- REG-02 Anaklia Lot, Construction of Wastewater Treatment Plant in Anaklia (completed)
 - URE-01, Construction of Water Supply and Wastewater Network in Ureki (Completed)
7. **Anaklia Water and Sewerage Network (Contract ANA-01).** The construction involved the supply and installation of approximately 69 kilometers of water supply and 70 kilometers of sewerage networks and service connections to all residents and hotels defined for the year 2040 for Anaklia and Ganmukhuri villages (total projected population of about 25,600 people). The construction works under Contract ANA-01 started on 16th of January 2012 and was completed in May 2014.
 8. **Mestia Water and Sewerage Networks (Contract MES-02).** The Construction rehabilitation of approximately 30 kilometers of water supply and 46 kilometers of sewerage network will cover the whole town of Mestia including the historic center and the future touristic zones covering all residents and hotels defined for the year 2040 thus benefiting total projected population of about 25,300 people. The construction works under MES-02 project started in October 2011 and was completed in the mid of August, 2015.
 9. **Conduction of Waste Water Treatment Plant in Anaklia (Contract REG-02)** The scope of works includes Construction of Waste Water Treatment Plant in Anaklia (the treated wastewater to be discharged into Enguri River).
 10. Contract was signed with JV Ludwig Pfeiffer Hock und Tiefbau GmbH & Co. KG and Protecno Srl on 22 September 2014 and Notice-to-Proceed given on 08 December 2014. Contract completion date is May 2018.
 11. **Construction of Water Supply and Wastewater Network in Ureki/Phase I (URE-01).** The project is simultaneously financed from Tranches I, II and III and therefore might be some overlap of T1-T3 Semi-Annual EMRs. The main works under Tranche II will comprise laying of sewerage network with the total length of 70 km.
 12. The Contract is signed with JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan) on October 28, 2014. Commencement date was November 24, 2014. Initial Completion date was scheduled on November 22, 2018 but due to changes in the design of project, which include the construction of an Aqueduct across the Natanebi River, the construction of Gabion walls to protect well fields from flooding and erosion, and the construction of an additional deep well No. 8 along the banks of the Natanebi River, completion date was extended to September 2019. The project is foreseen to serve 35,000 tourists and 5,400 local inhabitants by year 2040. No Post Construction Audit report was prepared under URE-01 sub-project as yet. SC/EPTISA selected an independent auditor to conduct the post-construction audit as part of the URE-01 subproject. An audit report will be submitted by the end of January 2021, and the results will be reflected in the next Semi-annual EMR of January-June 2021.

Post Construction Environmental Audits under MES-02, ANA-02 and REG-02/Anaklia sub-projects

13. Mes-02 project Post Construction Environmental Audit was carried out in November 2015. The main findings revealed during the post construction audit are presented in Bi-annual report of July-December 2015.
14. Ana-01 project Post Construction Environmental Audit report was prepared in September 2014. The main findings revealed during the post construction audit are presented in EMR of July-December 2014.

15. Post Construction Environmental Audit under REG-02/Anaklia WWTP sub-project was conducted by the independent consultant in December 2018. The main findings revealed during the post construction audit are presented in EMR of July-December 2018.
16. Post construction Audit report will be prepared under URE-01 sub-project by independent consultant hired by SC/EPTISA and the main findings of the report will be presented in the next SAEMR of January-June 2021.

2.2 Project Contracts and Management

17. The main institutions that are involved in implementation of the EMP are UWSCG executing agency (EA), Supervision Consultant (SC) the Contractor and to a lesser extent the Ministry of Environment and Natural Resources Protection (MoENRP).
18. Investment Program Management Office (IPMO) established within UWSCG is responsible for the day to day management of the project including implementation of the EMP. The IPMO has an Environmental Specialist who is responsible for management of the environmental aspects of USIIP.
19. The IPMO (Environmental Specialist) responsibilities in respect of implementation of the EMP are as follows:
 - (i) Approve the Site Specific Environmental Management Plan (SSEMP) before Contractor takes possession of construction site;
 - (ii) Monitor implementation of EMP and ensure the environmental safeguards compliance;
 - (iii) Review the updated IEE and/or SEMP and send it for clearance to ADB;
 - (iv) Ensure that contractors have access to the EMP and IEE report;
 - (v) Finalize SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; Provide ENG and GEO final versions of SAEMRs to be uploaded on UWSCG website;
 - (vi) Review and approve the Corrective Action Plan and provide to ADB for review and comments if any;
 - (vii) Participate in public consultations during project implementation;
 - (viii) In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints;
 - (ix) Assist in organizing trainings for the Contractors in coordination with ADB/RETA consultant;
 - (x) Participate in external trainings in environmental management and environmental auditing
20. The SC includes a full time Environmental Specialist to assist the IPMO supervise and monitor implementation of the EMP during construction.
21. The Contractor also appoints a full time Environmental specialist to be a senior member of the construction management team based on site for the duration of the contract. The ES shall have a university degree (preferably at Masters level) in Environmental Science or related discipline and have at least 10 years work experience in environmental management of infrastructure project
22. Department of Environmental Protection and Permits of UWSCG work together with IPMO on addressing the Environmental Safeguard issues of USIIP. More detailed description of implementation arrangements; responsibilities and staffing are provided in the Table 1 below.

Table 1: Institutional Arrangement, Responsabilités and Staffing

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
1	Environmental planning and management Contractors Environmental Management Plan (site-specific EMP)	Prepare Specific EMP (SEMP) with supplemented Topic Specific EMPs at pre-construction stage based on IEE/EMP Implement SEMP approved by IPMO.	Review and endorse the SEMP; Monitor implementation of SEMP on daily basis; Monitor monthly environmental monitoring reports or results prepared by the Contractor and report to IPMO.	Review and approve the SEMP; Monitor implementation of EMP and ensure the environmental safeguards compliance.	Work together with IPMO on addressing the environmental non-compliance issues, if any.
2	Changes in design	Provide details of design changes to CSC required to update IEE/EIA, or SEMP; Implement updated SEMP.	Approve the design change to be submitted to IPMO; Make environmental assessment of the change and update the IEE and/or SEMP.	Review the updated IEE and/or SEMP and send it for clearance to ADB	Liaise with CSC in preparing updated IEE and/or SEMP; Upload the approved IEE/SEMP provided by IPMO to UWSCG website for Public Disclosure.
3	Unanticipated impacts	Inform CSC about unanticipated impact and follow the instructions received from IPMO.	Make environmental assessment of the unanticipated impact and update the IEE and/or SEMP	Review the updated IEE and/or SEMP and send it for clearance to ADB	Liaise with CSC in preparing updated IEE and/or SEMP

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
4	Reporting	Prepare monthly environmental monitoring reports and send it to CSC and IPMO	<ol style="list-style-type: none"> 1. Prepare inputs to environmental part of quarterly construction progress reports; 2. Prepare inputs to semi-annual environmental monitoring report (SAEMR) to be submitted to IPMO for further review, comments and improvement. 3. Conduct Post-Construction Final Environmental Audit and prepare final environmental audit report. 	<ol style="list-style-type: none"> 1. Finalize SAEMRs (and Final EMRs upon project completion), send it to ADB and address potential ADB's comments until SAEMR disclosure; 2. Provide ENG and GEO final versions of SAEMRs to be uploaded on UWSCG website. 	Upload the approved reports (ENG and GEO) provided by IPMO to UWSCG website for Public Disclosure
5	Permits and clearances	NA	NA	NA	Obtaining environmental permits and clearances
6	Non-compliances	Prepare a corrective action plan (CAP)	Assist contractor in preparing the CAP.	Review and approve the CAP and provide to ADB for review and comments if any.	
7	Public consultations	Participate in public consultations during project implementation	Organize public consultations: inform people about activities and prepare the record of consultations.	Participate in public consultations during project implementation	UWSCG & IPMO host PCs, CSC will present the topics related to environmental issues

#	Millstones/Actions	Contractor (Environmental Specialist)	Construction Supervision Consultant (Environmental Specialist)	IPMO (Environmental Specialist)	Environmental Protection and Permits Department (Environmental Specialist)
8	Grievance Redress Mechanism	Project site Focal person to record environmental grievances in the logbook and follow up with UWSCG established practice for grievance redress	<ol style="list-style-type: none"> 1. Ensure that grievances, if any, are being properly documented and addressed timely and effectively. 2. Assist IPMO to develop consolidated GRM database and consolidation of GRM cases both for ENV and Social safeguards 	In case of need assist IPMO Social/Resettlement Consultant in resolving process of environmental safeguards related complaints; Assist IPMO Social/Resettlement Consultant in GRM database consolidation and data analysis.	UWSCG maintains GRM applicable to all projects. UWSCG will ensure IPMO information on grievances is consolidated into the UWSCG grievances (both - environmental and social) without duplication.
9	Trainings	Attend on-site trainings organized by IPMO and ADB/RETA Consultant	Assist the IPMO in organization of trainings for the Contractors on environmental safeguards requirements.	Organize trainings for the Contractors in coordination with ADB/RETA consultant. Participate in external trainings in environmental management and environmental auditing	Participate in external trainings in environmental management and environmental auditing

23. Main organizations involved in the project and related to environmental safeguard are presented in the table 2 below:

Table 2: List of Main Organizations under USIIP/T2

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Lender	Asian Development Bank	Country Environmental Focal	Ninette R. Pajarillaga E-mail: npajarillaga@adb.org
		ADB RETA International Environmental Consultant	Keti Dgebuadze +995 577232937 ketdgeb@yahoo.com
		Associate Safeguards Officer, Georgia Resident Mission Asian Development Bank	Nino Nadashvili +995 595 070442 nnadashvili@adb.org
Borrower	UWSCG	UWSCG, Department of Environmental Protection and Permits, Head	Ms. Maka Goderdzishvili Tel: +995 599 229925 E-mail: m.goderdzishvili@water.gov.ge
		UWSCG/IPMO Department of Projects Management, Head	Ms. Ana Onashvili Tel: +995 599 692090 E-mail: ana.onashvili@water.gov.ge
Borrower	UWSCG	UWSCG, Department of Environmental Protection and Permits, Head	Ms. Maka Goderdzishvili Tel: +995 599 229925 E-mail: m.goderdzishvili@water.gov.ge
Borrower	UWSCG	UWSCG/IPMO Department of Projects Management, Head	Mr. Giorgi Archaia Tel: +995 577 380213 E-mail: G.Archaia@water.gov.ge

Type of project participant	Name of Agency/Company	Environmental Staff	Name and contact details
Borrower	UWSCG/USIIP/T3	Environmental Specialist	Ms. Ketevan Chomakhidze Tel: +995 577 380309 E-mail: Chomakhidzek@yahoo.com
Supervision Consultant	A Consortium of Consulting Firm led by Eptisa Servicios de Ingenieria S.L. (Spain) in association with SAFEGE (Belgium) and JSC Georgian Water Project (Georgia)	Environmental Specialist:	Mr. Irakli Legashvili Tel: +995 577 177016 E-mail: chem_ira@yahoo.com
Contractor URE-01	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)	Environmental H&S Specialist	Mr. Levan Asabashvili Tel: +995 599 962 693 Email: levani.asabashvili@mail.ru
Contractor KUT-01	SMK Ulusal Insaat Ve Ticaret A.S. (Turkey)	Environmental Specialist	Ms. Natia Babukhadia E-mail: natiiibab@gmail.com Tel: +995 595 150444
		H&S Specialist	Mr. Mamuka Darakhvelidze E-mail: mamuka.darakhvelidze@gmail.com Tel: +995 592 87 0087

2.3 Project Activities During Current Reporting Period

24. No construction activities were implemented under USIIP/T2 during the reporting period, July-December 2020, since all construction works have been already completed.

2.4 Description of Any Changes to Project Design

25. Due to the fact that during the reporting period no construction work was carried out no changes took place to the project design and accordingly nothing has been updated or prepared.

2.5 Description of Any Changes to Agreed Construction methods

26. Due to the fact that during the reporting period no construction work was carried out no changes took place to the agreed construction methods.

III. ENVIRONMENTAL SAFEGUARD ACTIVITIES

2.4 General Description of Environmental Safeguard Activities

27. No construction activities took place during the reporting period therefore no environmental safeguard activities related to the period of July-December 2020 are reported.
28. There are no protected areas, wetlands, mangroves, or estuaries. Trees, vegetation (mostly shrubs and grasses), and animals in the subproject sites are those commonly found in built-up areas. The geological structure of the area is stable and no potential land subsidence is foreseen.

a. Site Audit

29. No Site audit was carried out during the reporting period, since there were no construction activities.

3.3 Issues Tracking (Based on Non-Conformance Notices)

N/A

A. Trends

N/A

3.4 Unanticipated Environmental Impacts or Risks

N/A

IV. RESULTS OF ENVIRONMENTAL MONITORING

3.5 Overview of Monitoring Conducted during Current Period

30. No monitoring was carried out during this reporting period as all construction work under USIIP/T2 was completed. Non-compliances from the previous reporting period have not been identified.

3.6 Trends

N/A

4.3 Summary of Monitoring outcomes

N/A

4.4 Material resources Utilization

4.4.1 Current Period

N/A

4.4.2 Cumulative Resources Utilization

N/A

4.5 Waste Management

4.5.1 Current Period

N/A

4.5.2 Cumulative Waste Generation

N/A

4.6 Health and Safety

4.6.1 Community Health and Safety

N/A

4.6.2 Worker Safety and Health

N/A

4.7 Training

N/A

V. FUNCTIONING OF THE SEMP

5.1 SEMP Review

31. Location Specific Environmental Management Plan under T2 were prepared for REG-02/Anaklia WWTP and URE-01 sub-projects. All SEMP's were prepared by Contractor, endorsed by SC, reviewed/commented by the RETA International-Regional Environmental Consultant of ADB under RETA 8663 - Ms. Ketii Dgebuadze and reviewed/ approved by UWSCG.

32. The following SSEMP was prepared within the framework of REG-02/Anaklia WWTP sub-project:

- SSEMP Anaklia WWTP (May 2015)

33. The following SSEMP's were prepared by contractor, within the framework of Ure-01, project during the previous reporting periods:

URE-01:

- Ureki Well Fields (June 2016);
- Reservoir#1 (June 2015);
- Water Supply Pumping Station (June 2015);
- Reservoir #3 (May 2018);
- Natanebi River Protection Gabion Construction (November 2018);
- Natanebi River Crossing Aqueduct Construction (November 2018)

VI. GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

N/A

6.2 Opportunities for Improvement

N/A

VII. SUMMARY AND RECOMMENDATIONS

7.1 Summary

34. Construction work within the framework of the MES-01, MES-02, REG-02 /Anaklia WWTP and URE-01 sub-projects have already been completed. Post-construction environmental audit reports for MES-01, MES-02, REG-02/Anaklia WWTP were prepared by Independent Consultants and approved by ADB during the previous reporting period.

7.2 Recommendations

35. Post-construction Environmental Audit will be conducted under URE-01 sub-project by SC and Post-Construction Audit report will be submitted to ADB during the next reporting period January-June 2021 (in Q1 2021).