

Environmental Monitoring Report

Semestral Report
February 2015

GEO: Urban Services Improvement Investment Program – Project 2

Prepared by United Water Supply Company of Georgia, LLC, Government of Georgia for the Asian Development Bank.

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

Bi-annual Environmental Monitoring Report

Project Number: 43405-024

July-December 2014

Loan Number 2807-GEO (SF)

Georgia: Urban Services Improvement Investment Program (Tranche 2)
(Financed by the Asian Development Bank)

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Protection



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ABBREVIATIONS

ADB	Asian Development Bank
DC	Design Consultant
DREP	Division of Resettlement and Environmental Protection
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
GRM	Grievance Redress Mechanism
IA	Implementing Agency
IEE	Initial Environmental Examination
MDF	Municipal Development Fund
MFF	Multi-tranche Financing Facility
MoENRP	Ministry of Environment and Natural Resources Protection
MoRDI	Ministry of Regional Development & Infrastructure
SC	Supervision Consultant
USIIP	Urban Sector Improvement Investment Program
UWSCG	United Water Supply Company of Georgia
WWS	Water Supply & Sewerage
WWTP	Wastewater Treatment Plant

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I. INTRODUCTION

1. The present Bi-annual Environmental Monitoring Report covers the time period from July 2014 till December 2014.
2. 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 will be financed by the ADB through its Multi-tranche Financing Facility. Ministry of Regional Development and Infrastructure is the Executing Agency and United Water Supply Company of Georgia, LLC is the Implementing Agency of the Investment Program. UWSCG is a 100% state-owned company.
3. 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 headworks, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works will include sewer network, main collectors, pumping stations and waste water treatment facilities.
4. The Investment Program will improve the health of residents in the urban centers of Mestia, Anaklia, Kutaisi, Poti, Ureki, Zugdidi and Marneuli. The outcome of the Investment Program is improved WSS services in these urban centers.

ANAKLIA Water and Sewerage Networks:

5. (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).
6. Within the reporting period Project Compliance Audit was conducted on 15-25 August, 2014. Main findings revealed during the site visits and after review of documents are presented in chapter III Environmental Monitoring..

MESTIA Water and Sewerage Networks (Contract MES-02):

7. 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.
8. Tranche 2 of the Investment Program includes the construction of Anaklia and Mestia Water Supply and Sewerage Distribution Networks, and the construction of Anaklia Wastewater Treatment Plant.
9. The Contract for Construction of Mestia Water Supply and Sewerage Distribution Networks was signed with Joint Venture of New Energy LTD – Georgia and Enguri 2006 LTD – Georgia (From 11 April 2013 the name of Enguri 2006 LTD has been changed into - New

Construction LTD) in October 2011. Works are scheduled for completion during Q2-2015.

ANAKLIA Wastewater Treatment Plant (Contract REG-02):

10. The scope of works includes the construction of a Wastewater Treatment Plant (the treated wastewater to be discharged into Enguri River). The bidder was required to bid for the design and construction of the first stage of a modular wastewater treatment plant (WWTP) in Anaklia. The design is to cater for the full flow and pollution loads for the 2040 population equivalent of 25,611PE but the first stage of construction is to provide all treatment processes for only half of the flow and loads calculated for 2040. In addition to the WWTP, the Contractor shall design and build the pressure lines leading from the collector network to the WWTP and from the WWTP to the outlet into the river.
11. Within the reporting period UWSCG has signed the Contract REG-02 (on 08 Dec. 2014) for Anaklia Wastewater Treatment Plant section.
12. The subproject construction sites for Ana-01 are located in Government-owned land. 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. A land Acquisition and Resettlement Plan is under preparation at UWSCG level for the purchase under contract MES-02 for 6 land parcels.

Construction of Mestia Wastewater Treatment Plant (Updating of IEE / EIA for Mestia):

13. At the initial stage of USIIP inception, construction of WWTP in Mestia was envisaged. Then previous government agreed with ADB of exclusion of the component from the investment program. As the result, if not immediate actions undertaken untreated waste water from newly rehabilitated network in Mestia, under Mes-02 project will be directly discharged in Mestiachala River until construction of the WWTP. According to the SPS 2009 and Loan Agreement this is an unanticipated impact and requires immediate actions to address the problem.
14. Based on above mentioned UWSCG instructed SC/EPTISA to conduct a full feasibility study for wastewater treatment at the foreseen location and available land.
15. In addition an updated IEE for Mestia Waste Water System was prepared to evaluate the impact of untreated effluent discharge at 4 river location outfalls from the sewerage collection system which was completed in Dec. 2014.
16. The Mestia updated IEE was submitted to ADB in January 2015.
17. The following recommendation is presented for improvement of the untreated waste water discharge in Mestiachala river:
 - Install **2 sewerage pumping stations and pressure collectors** to convey sewerage from outfall#1, and #2 to the terminal gravity collector (DN 400) leading to the outfall#3 meaning the future treatment plant location;
 - Build at that location an **activated sludge WWTP** (under tranche 5 of USIIP): this plant to include a Pre-treatment Facility (screening and grit and grease removal), a Primary Treatment Facility (aerated grit chamber and a sedimentation tank) and a biological treatment facility (secondary treatment consisting of activated sludge tanks, final sedimentation tanks and sludge storage tank as well as sludge dewatering and emergency sludge storage place)
 - Built at the outfall#4 a new collective **septic tank** as an autonomous system under civil work contract MES-02 in Oct. 2014 (completed). This was required for 10

customers who could not be connected to the public sewerage system due to resettlement issues.

A. Construction activities and Project Progress during previous 6 months

ANAKLIA Water and Sewerage Networks (Contract ANA-01):

- 18.** Overall physical progress of the work is 100%. The detailed activities which were carried out by the Contractor of ANA-01 in the past 6 months (July-December 2014) are as follows:

ANA-01

ANA-01 (wastewater)	Sewerage Network
Works Undertaken during July-December 2014	<ul style="list-style-type: none"> Pre-commissioning of E&M and final system test of 18 no. pump stations completed on 31 July 2014

MESTIA Water and Sewerage Networks (Contract MES-02):

- 19.** Overall physical progress of the work under MES-02 subproject is 98%. The activities which were carried out by the Contractor in the past 6 months (July-December 2014) are as follows:

MES-02

MES-02 (water)	Water Supply Network
Works Undertaken during July-December 2014	<ul style="list-style-type: none"> 7.107 km of water pipes installed 20.2 km of water pipe tested 15 no. hydrants installed Installation of 3 river crossings to support water mains
MES-02 (wastewater)	Sewerage Network
Works Undertaken during July-December 2014	<ul style="list-style-type: none"> 6.729 km of sewerage collector installed (gravity and pressure lines) 33 no. of manholes installed 10.0 km water tightness test for gravity sewers carried out

MES-02 (Service Center)	Service Center Building Mestia
Works Undertaken during July-December 2014	<ul style="list-style-type: none"> Service Center building turned over to UWSCG on 20 July 2014

B. Changes in Project Organization and Environmental Management Team

(i) Agencies Involved in Investment Program Implementation

20. Following agencies are involved in implementing the Investment Program:

- Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for management, coordination and execution of all activities funded under the loan. MoRDI has overall responsibility for compliance with loan covenants
- United Water Supply Company of Georgia (UWSCG) is the implementing agency (IA), which is responsible for administration, implementation (design, construction and operation) and all day-to-day activities under the loan. An Investment Program Management Office (IPMO), which is under the Department for Investment Projects Management (the name of department was changed in April 2014) is established within the UWSCG for all Investment Program related functions. The IPMO coordinates construction of subprojects and ensures consistency of approach and performance
- UWSCG as responsible IA for the project recruited a Supervision Consultant (SC). The national and international team of consultants assists UWSCG in the project supervision of the construction of subprojects under the USIIP. The SC also provides capacity building training to contractor staff in the management and operation and maintenance of the subprojects. The SC assists UWSCG in ensuring that the subprojects are implemented according to the specified standards. SC assignment also includes the supervising of the implementation of the environmental management plan
- All mitigation measures during construction have to be implemented by the contractor and these are monitored by the supervision consultant (SC). To ensure the smooth implementation of EMP of subprojects, an Environmental Management Specialist (EMS) is employed by the SC. SC/EMS conducts routine observations and surveys, prepares quarterly environmental reports and submits these to UWSCG.
- The Contractor has the following obligations:
 - to employ Environmental Consultant responsible for developing and implementing the construction phase EMPs and SEMP and for providing the corresponding information to UWSCG and SC;
 - to prepare SEMP;
 - to develop, if required, a Spoil Disposal Plan and Construction Waste
 - Disposal Plan agreed with the MoENRP and Local Government.
- ADB is the donor financing the Investment Program.
- DC is responsible for incorporation of mitigation measures in design and construction.
- The environmental specialist (ES) is hired by UWSCG under the USIIP to assist and advise the Division of Resettlement and Environmental Protection (DREP) of UWSCG in USIIP program implementation in compliance with the ADB Safeguard Policy Statement 2009 and National Legislation, and oversee the work of DCs and SCs in safeguards compliance. ES supports DREP in EARF implementation, in particular, reviewing IEE/EIA Reports and overseeing implementation of EMP/SEMPs and in training and capacity-building activities. The ES prepares bi-annual reports and submits to ADB.
- DREP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently DREP is staffed with a Head of Division, who is responsible for both resettlement and environmental issues, and a Senior Environmental Specialist (SES).

21. Environmental management organization is shown in Figure 1 and Figure 2.

(ii) Organizational structure of the Project's Environmental Management System

Figure 1. Structure Diagram of the Environmental Management Unit of UWSCG

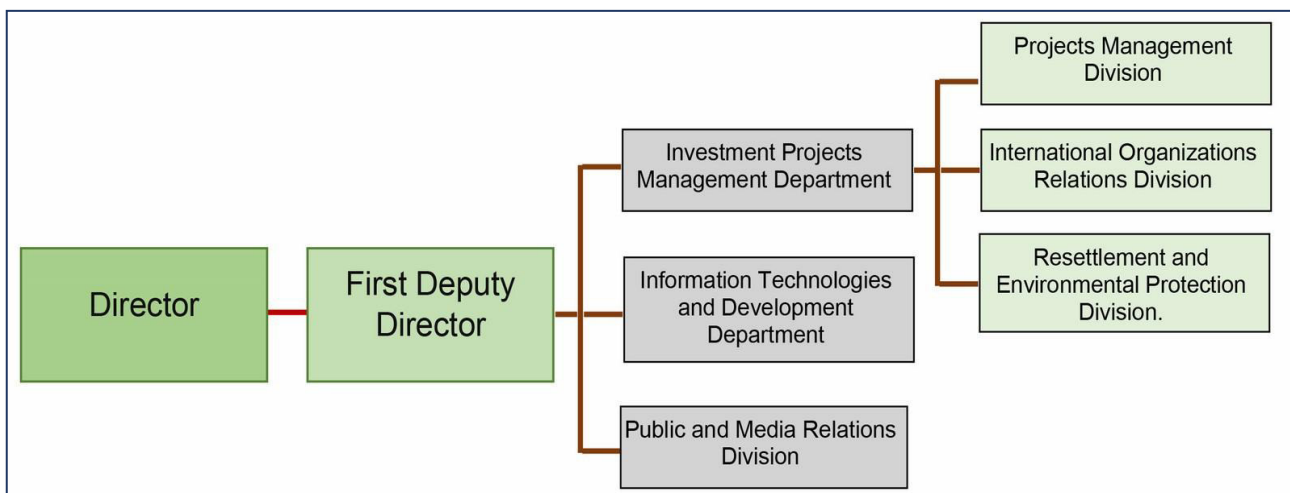
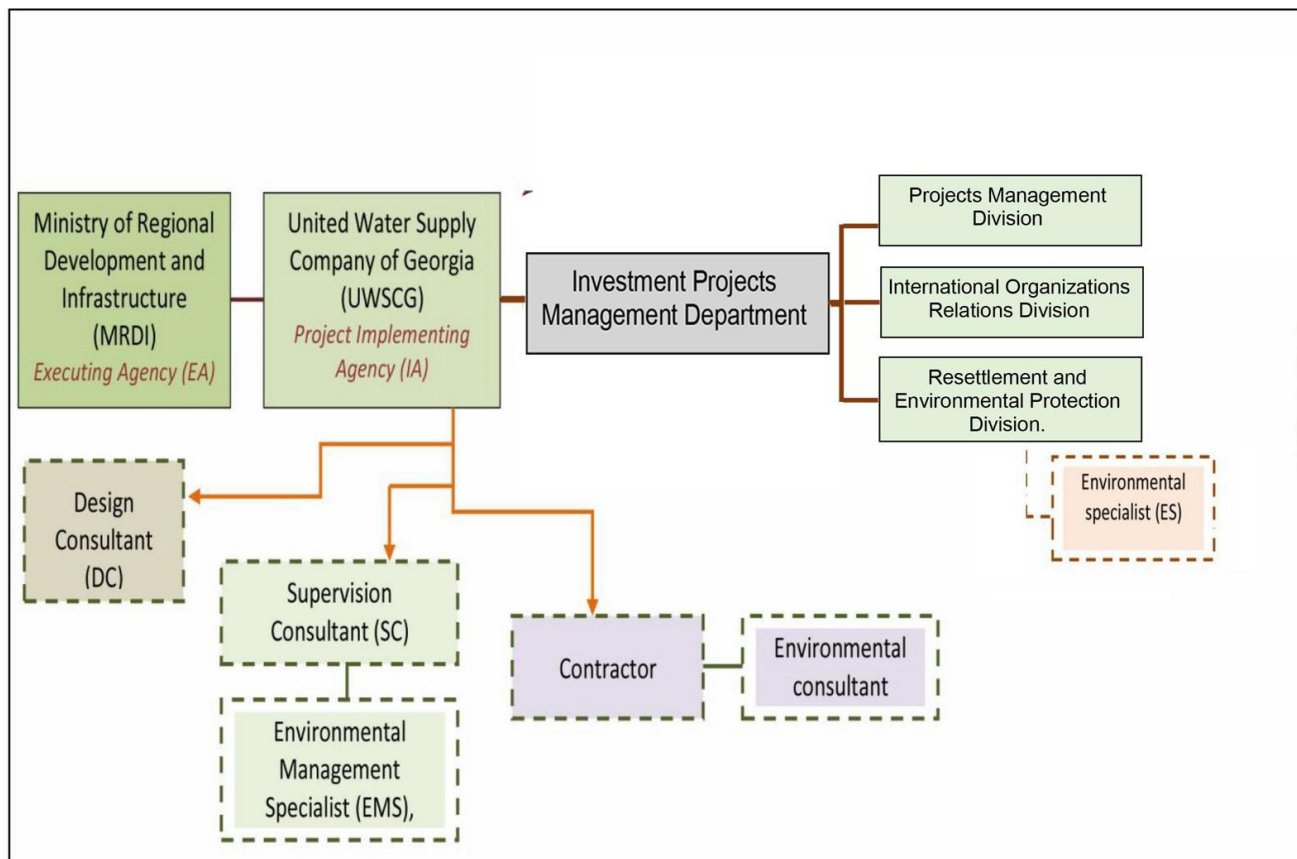


Figure 2. Structure Diagram of the Agencies Involved in Investment Program Implementation



C. Relationships with Contractors, Owner, Lender, etc

22. Relationships with Contractors, Owner and Lender are considered as normal working relationships. At the working level, coordination of environmental issues has been satisfactory, the government agencies, UWSCG, consultants and contractors mentioned in section B – Environmental management Team are in frequent communication and consultation.
23. Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for oversee progress and provide guidance on the Investment Program implementation; convene regular meetings in consultation with the SC Chairperson and UWSCG; ensure compliance with Investment Program covenants.
24. Oversight of the USIIP with regards to environmental management is the responsibility of the environmental safeguards team, in particular UWSCG/DREP and the Environmental Specialist of USIIP.
25. The team has constant communication with the Supervision Consultant, Contractor, reviews/ comments all environmental reports submitted by DC, SC and contractors.
26. SC is responsible for environmental capacity building, monitoring of implementation of EMPs and for developing quarterly reports. The Contractor has a full time Environmental Specialist who carries out day to day monitoring as submits a monthly progress reports.
27. ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.
28. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/DREP, Eptisa, Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.
29. A Grievance Redress Committee has been established in Mestia, but to date all grievances have been minor, and have been dealt locally to the satisfaction of complainants.
30. Project organization for the awarded contracts listed above is given in the table 1 below.

Table 1: Project organization for the awarded contracts

Contract #	Employer	Contractor
Contract-1 (UWSC/ICB/CW/2012/ANA-01)	UWSCG	Joint Venture of Peri Ltd and Modern Business Group LLC
Contract -2 (UWSCG/ICB/CW/2011/MES-02)	UWSCG	Joint Venture of New Energy LTD – Georgia and Enguri 2006 LTD (From 11 April 2013 the name of Enguri 2006 LTD has been changed into - New Construction LTD)

II. ENVIRONMENTAL MONITORING

31. During the period of July-December 2014 an individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of UWSCG/USIIP. Because of strict weather conditions in winter time it is difficult to get to the project sites all around the year, therefore monitoring of Mes-01

project sites were carried out in August, September and October of 2014 in Mestia. Monitoring of Anaklia project sites were conducted only in July and September because of the completion of Ana-01 project.

32. Mitigation measures to reduce major environmental impacts have been instructed to contractors during the monitoring visits as per EMPs.
33. Environmental Monitoring Specialist of SC/Eptisa develops quarterly monitoring reports for UWSCG/DREP based on environmental site inspections.
34. USIIP's ES of DREP performs monitoring of contractor's performance with the approved EMPs, environmental Standards and other environmental commitment of the contractor. ES develops bi-annual and annual environmental monitoring reports and submits to ADB based on the quarterly reports prepared by SC and site monitoring observations.
35. The Project's Environmental Impact Monitoring and Mitigation is carried out in accordance with the Environmental Management Plans prepared by the contractor. The construction activities affecting the environment are as follows (only MES-02 is reported in this report as no action under REG-02 and Ana-01 has been taken during the reporting period):
 - a. Excavation works;
 - b. Pipe installation;
 - c. Backfilling and compaction
36. The only parameters monitored during the construction period were impacts caused by excavation and generation of waste soil; disturbance to business, people, activities and socio-cultural resources due to construction works and backfilling and compaction.

A. Monitoring Measurements

37. No Monitoring measurements is provided in IEE of Ana-01 and MES-02 sub-projects for air and noise. As the main construction works are finalized project has modest impact on environment that may be easily mitigated, therefore monitoring was limited to inspections to verify compliance with mitigation requirements.

III. ENVIRONMENTAL MANAGEMENT

A. Site inspections and audits

38. Ana-01 project Compliance Audit Report was carried out on 1-7 September of 2014. The Compliance Audit Report was prepared to comply with the 2009 ADB's SPS and Georgian legislation, including Safeguards Requirement and aims to identify past and present concerns from the production and business activities of Project Company that related to impacts on environment.
39. Based on the project documents review and conducted site visits the Consultant revealed the following **general findings**:
 - The main beneficiaries of the improved system were the citizens of Anaklia, and Ganmukhuri who was provided with a constant supply of better quality water, which serves a greater proportion of the population, including urban poor (and tourists as well). This improve the quality of life of people as well as raising standards of both individual and public health as the improvements in hygiene reduced the incidence of disease associated with poor sanitation. This lead to economic gains as people away from work less and will spend less on health care, so their incomes will increase;

- In terms of environment at the project implementation stage strong negative impact on environment was not expected. According to the ADB instructions the project fell under Category B. According to Georgian legislation preparation of Environmental Impact Assessment and obtaining relevant permit was not necessary for project implementation;
- All documents developed under the project (Loan Agreement, PAM, Contracts) included the obligation to implement the project according to the ADB SPS 2009 as well as pursuant to the environmental requirements stipulated in Georgia legislation;
- No incidents have occurred during the construction stage and no complaints have been initiated by the residents;
- All project implementing units had hired environmental specialist with relevant qualifications;
- At the project implementation stage permanent trainings were held for contractor, as well as those specialists of all organizations involved in the project that dealt with environmental issues;
- Under the project UWSCG and SC environmental specialists performed permanent environmental monitoring. Non-compliances identified by them adequately and corrective actions were planned. The effectiveness of corrective actions were also controlled by the above-mentioned specialists;
- Restoring works on the territory of water supply and sewerage pipes and pumping stations have been performed to the satisfactory level, except for the two sections where the damaged asphalt cover has been restored at the unsatisfactory level; These sections have been restored as well (following instructions given by EPTISA and UWSCG to Contractor);
- Contractor has disposed inert waste on the territory adjacent to the Anaklia city central street, in agreement with local self-government; the local authorities use the mentioned inert waste for restoring the uneven territories adjacent to the central road; Some pending works by Local Government and hired companies to complete the disposal was monitored by UWSCG and EPTISA and improved by contractor within one months period.
- After the audit, a number of recommendations were developed, and the Contractor was given one month to realize them. It should be noted that a number of non-compliances fixed during the audit, were fully corrected by the Contractor before the final audit report was drafted.

40. Along with the above-mentioned findings the Consultant made the following recommendations:

- In one month from the receipt of the Audit Report the SC has to perform additional audit on the sites of waste disposal and in case the sites are identified where the inert waste is still disposed without control the SC has to demand from local authority to timely commence works and present the schedule of implementation of works. This was carried out in October 2014 as per the request of the auditor;
- In case the laying of new asphalt on the mentioned section is not planned under another project the Contractor shall restore the mentioned sections within one month from receipt of the Audit Report; Based on Audit report draft EPTISA instructed Contractor to carry out restoration works. This restoration works was carried out by contractor in October 2014 as per the request of the auditor.

B. Non-Compliance Notices

Mes-02

41. Corrective actions requested after the Monitoring of sites were not always addressed adequately. During the course of the construction supervision in the previous six months of the works no “non-compliance notice” was written by Eptisa and UWSCG to the contractor. All instructions were provided verbally and all corrective actions monitored during the next monitoring visits.

C. Corrective Action Plans

42. To resolve the observed issues, the regular Environmental Meetings have been initiated with participation of UWSCG/IPMO/DREP, Eptisa, Contractor. During the meetings environmental issues and implementation of the mitigation measures were discussed. Agreements were reached that contractor shall respond on the monitoring of the compliance carried out by SC and UWSCG. On-site inspection and monitoring of the mitigation measures were carried out jointly by Eptisa and UWSCG with the contractor to document progress of corrective actions being implemented.

Table 2: Actions taken for implementation of mitigation measures under Mes-02 project and status of improvements by the December 31, 2014

MES-02

Construction Site	Environmental Issues	Action taken
Mes-02	Impacts caused by excavation and generation of waste soil	Completed partially
	Safety risk for workers <ul style="list-style-type: none"> • Exclude public from the site – enclose construction area, provide warning and sign boards, security personnel • Provide adequate lighting to avoid accidents • Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks 	Completed partially
	Carry out reinstatement works along road trenches	Completed partially

Actions taken to reflect the findings of ADB mission in August 2014:

43. A loan Environmental Safeguard Review and Reconnaissance mission was carried out on 27 July – 2 August of 2014 to review environmental safeguards compliance of Tranche 1 and Tranche 2 projects.
44. The following actions have been taken to reflect the findings of ADB mission for Mes-02 project. The discharge dilution calculation was used for designing the Waste Water Treatment Plant in Mestia to ensure compliance with environmental Standards.
45. The feasibility study was prepared by Eptisa for evaluation of pollution dispersion of untreated discharge from the 4 outlets, the baseline data was collected by company GAMMA, hired by Eptisa. Workshop was held on selection of treatment technology.

46. In addition IEE for Mestia for Waste Water System was updated to evaluate the impact of untreated effluent discharge at 4 river location outfalls from the sewerage collection system which was completed in Dec. 2014.
47. The Mestia updated IEE was submitted to ADB in January 2015.
48. As it was advised by mission an intensive public consultations were carried out with the local population of Mestia.
49. Within the reporting period GRM system was established in Mestia to handle both environmental and social safeguard issues in accordance with ADB's SPS 2009 and Accountability Mechanism Policy.

Actions taken regarding the action plan of the EMR January-June 2014:

50. During the reporting period active public consultation and awareness raising activities were conducted under mes-02 projects to keep the beneficiaries informed and consulted on project progress and results. Detailed information about carried out activities are presented in below.
51. As it was described above Post Construction Audit was conducted for Ana-01 project by the independent auditor, the main findings of the report are presented in paragraph 39.
52. Mestia IEE was updated for the Waste Water Treatment Plant and submitted to ADB in January 2015;

D. Consultations and Complaints

Public Awareness Activities

53. Eptisa and UWSCG organized public consultation meetings in Mestia, in order to answer Mes-02 project related questions as well as inform the population on project progress. The consultation meetings were held with local population in November 2014 were attended by the representatives of UWSCG, Eptisa, the contractor, local self-governance and local population.
54. The first part of the consultation meetings was dedicated to the presentations where relevant representatives from UWSCG and the construction company updated the local population on project progress, its importance and expected results. The presentations were also delivered to cover the following topics: detailed description of the completed works, tariffs and how the tariff would be calculated in winter period, importance of wise water consumption and others.
55. The second part was dedicated to Q and A section; local population could ask questions and get the full information on the project related matters. Participants were also reminded about the GRM system and special commission created to discuss their complaints or comments. The information on the grievance commission was also widely discussed during the door to door campaign conducted in Mestia.

Grievance redresses mechanism (GRM)

56. A GRM was established for Mes-02 project and is operational since July 2014. The system operates on a 3-stage:
57. On the first stage complaints are discussed within two weeks of reception by the local service center of the UWSCG Mestia office, based on shareholders verbal or written complain. On the first stage of grievance authorized representative of local service center is responsible to ensure claim registration and its further processing.
58. On the second stage of grievance if the problem is not solved within two weeks, shareholder has right to apply to the committee which will make decision within two weeks after the registration of the form. The GR Committee is staffed the following way:
- Representative of self-government – the head of committee;
 - Director/ Manager of United Water Supply Company of Georgia Service Center;
 - Investments Project Managementt Division representative of the company;
 - Representative of local authoritative NGO (according to the claim reference);
 - Shareholders' female representative;
 - Shareholders' informal representative;
 - Heads of local municipalities
59. On the third stage of grievance if the problem is not solved, shareholder can apply to ADB at a given address below.
- ***Complaints Receiving Officer, Accountability Mechanism***
 - ***Asian Development Bank Headquarters***
 - ***6 ADB Avenue, Mandaluyong City 1550, Philippines***
 - ***Email: amcro@adb.org, Fax +63-2-636-2086***
60. UWSCG and Eptisa provided trainings for staff of Mestia Service center to make GRM system functional. The local UWSCG staff have been introduced to the complaints registration log, how to register the complaints, what is EMP, etc . As it was mentioned above APs were fully informed through very intensive public consultation process carried out within Mes-02 project of their rights and of the procedures for addressing complaints whether verbally or in writing during planning and implementation of the project.
61. Up to 10 of minor complaints have been recorded within the reporting period under the Mes-02 project in Mestia, The complaints mainly concern reinstatement of top soil in the private properties. All received written complaints were discussed by the local service center in Mestia on the first stage and were dealt with immediately to the satisfaction level. Hence, no complaints were brought to the attention of the Grievance Redress Committee.
- Conclusions and Recommendations
62. As presented in this report, tranche-2 of this Investment Program is being implemented in compliance with the ADB Safeguard Policy Statement, 2009, National Legislation and overall EARF.
63. Necessary instructions have been given to the Contractor by UWSCG and SC to follow the Environmental Management Plan for Mes-02 project.

Table 3: Recommendations to address Environmental Issues

Recommendations	Responsible Party
Mes-02	
The surplus/waste soil should be stored separately for further use at the dedicated place to avoid disturbance of the population, if trenches are left open more than 24 hours	Contractor to perform physical interventions; Contractor's Site engineer to monitor progress and provide monthly reports to Eptisa
Relevant wooden/metal walkways/planks should be installed across open tranches when passing settlement area	Contractor to perform physical interventions; Contractor's Site engineer to monitor progress and provide weekly reports to Eptisa
Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks	Contractor
Refilling/compaction and reinstatement process should bring site at the same condition as it was before construction	Contractor to perform physical interventions; Contractor's Site engineer to monitor progress and provide weekly reports to Eptisa

IV. ACTION PLAN FOR THE NEXT PERIOD

64. Conduct public awareness campaign in April 2015 under contract MES-02 by Eptisa and UWSCG.
65. Carry out post-construction Environmental Audit of MES-02 project in May-June 2015.

ANNEXES

ANNEX A: PROJECT PHOTOS



Ana-01 Reinstatement



Ana-01 Pumping stations



Ana-01 Reinstatement in the private yards



Mes-02 Monitoring site visit with engineers



Mes-02 Network



Mes-02 Reinstatement process

ANNEX B: IMPLEMENTATION OF RECOMMENDED MITIGATION MEASURES – MESTIA 02

MES-02 Project

Impact on Environment	August 2014	September 2014	October 2014
	To be improved immediately		
Impacts caused by excavation and generation of waste soil	Recommended Mitigations: The surplus/waste soil pile should be stored separately for further use at the dedicated place	Completed partially	Completed partially
Disturbance to business, people, activities and socio-cultural resources due to construction work	Recommended mitigations: All openly left trenches should be fenced properly with standard warning signs and safety tapes Provide wooden walkways/planks across trenches for pedestrians and metal sheets where vehicle access is required	Not completed	Completed partially
	Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks	Not completed	Completed partially
Reinstatement process	Refilling/compaction and reinstatement process should bring site at the same condition as it was before construction	Completed partially	Completed partially

ANNEX C: IMPLEMENTATION REPORT ON THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) INITIAL ENVIRONMENTAL EXAMINATION (IEE) MITIGATION REQUIREMENTS:

Reference	Requirement	Action to date	Action required/comment
Mes-02 project Network	All accumulated surplus soil should be taken away from site for its final disposal	Completed partially	For several times surplus soil improper disposal was observed and clear message was delivered to contractor for improvement
	<p>Safety risk for workers:</p> <ul style="list-style-type: none"> • Exclude public from the site – enclose construction area, provide warning and sign boards, security personnel • Provide adequate lighting to avoid accidents • Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks 	Completed partially	Contractor's environmental Specialist instructed several times to install proper warning signs and adequate lightening asap