

Environmental Monitoring Report

Semestral Report
July 2016

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

January-June 2016

Loan Number 2807-GEO (SF)

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

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Environment Protection

July 2016

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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	Environnemental 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
USIIP	Urban Sector Improvement Investment Program
IA	Implementing Agency
IEE	Initial Environmental Examination
MFF	Multi-tranche Financing Facility
MoENRP	Ministry of Environment and Natural Resources Protection
MoRDI	Ministry of Regional Development & Infrastructure
NEA	National Environmental Agency
SC	Supervision Consultant
UWSCG	United Water Supply Company of Georgia
WSS	Water Supply & Sewerage
WTP	Water Treatment Plan
WWTP	Waste Water Treatment Plant

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PART I – INTRODUCTION

1.1 Construction activities and project progress during the previous 6 months

A. General information about the program/SUBPROJECTS

1. The present Bi-annual Environmental Monitoring Report covers January-June 2016 time period.
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 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.
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 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.
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.
5. 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).

The following projects are financed under Tranche 2:

6. **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.
7. **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 are scheduled for completion by the mid of August, 2015.

B. Post Construction Audit

8. Mes-02 project Compliance 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.
9. Ana-01 project Compliance Audit Report was prepared in September 2014. The main findings revealed during the post construction audit are presented in EMR of July-December 2014.

Reg-02 and Ure-01 projects

10. **Anaklia Wastewater Treatment Plant (Contract REG-02).** 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. The contract for construction of Anaklia WWTP was signed on September 22, 2014. Completion data is scheduled on December 6, 2016.
11. **Construction of Water Supply and Wastewater Network in Ureki.** Construction of Water Supply and Wastewater Network in Ureki/Phase II (URE-01). The project is simultaneously financed from Tranches I, II and III. The main works under Tranche II will comprise laying of sewerage network with the total length of 70 km. (Contract was signed on 22 September 2014 and notice to proceed given on 8 December 2014. project will be completed in 2016).

C. Construction activities and project progress during the previous 6 months

12. Overall physical progress of the work under the ANA-01 and Mes-02 projects are 100%. No activities taken place during the reporting period of January-June 2016.

Construction Activities during previous 6 months under Reg-02 and Ure-01 projects (January-June 2016) are as follows:

Table 1: Project progress during the previous 6 months

URE-02

REG-02	Anaklia WWTP
Works undertaken during January-June 2016	Coarse Screen Plant - 55.53%
	Fine Screen Plant - 55.53%
	Aerated Grit Chamber Plant - 71.45%
	Aeration Tanks - 18.61%
	Blower Station - 76.68%
	Final Sedimentation - 85.55%
	Sludge Pumping Station - 38.69%
	Outflow Measurement Chamber - 10.47%
	Sludge Thickening - 79.11%

	Sludge Dewatering Plant - 76.68%
	Emergency sludge storage area - 97.84%
	Operation Building - 76.68%
	Administration building, garages, workshop - 71.19%
	Power/Heating Plant Building - 76.68%

Ure -01

Ure-01	Sewerage network
Works undertaken during January-June 2016	7.912 km of PE 100 and corrugated pipes OD 110-500 mm, SDR 11 installed – 13.7%

1.2 Changes in Project Organization and Environmental Management Team

Agencies Involved in Investment Program Implementation

13. The 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.
14. 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 Donor Relations, is established within the UWSCG for all Investment Program related functions. The IPMO coordinates construction of subprojects, and ensures consistency of approach and performance. In May 2016 a new director Mr. Giorgi Koberidze was appointed in UWSCG.
15. UWSCG as responsible IA for the project recruited a Supervision Consultant (SC). The national and international team of consultants assists UWSCG in the 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 plans.
16. 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 EMPs and SEMP of subprojects, an Environmental Management Specialist (EMS) is employed by the SC/EPTISA. SC/EMS conducts routine observations and surveys, prepares quarterly environmental reports and submits these to UWSCG.
17. The Contractor has the following obligations:
 - to prepare SSEMPs;
 - to employ Environmental Consultant responsible for developing and implementing the construction phase SSEMPs and for providing the corresponding information to UWSCG and SC;
 - to develop Waste Management Plan and agreed with the MoENRP and Local Government

18. DC is responsible for developing and incorporation of mitigation measures in design and construction.
19. The environmental specialist (ES) is hired by UWSCG under the USIIP to assist and advise the Resettlement and Environmental Protection Unit (UREP) 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 UREP in EARF implementation, in particular, reviewing IEE/EIA Reports and overseeing implementation of EMP/SSEMPs and in training and capacity-building activities. The ES prepares bi-annual and annual environmental monitoring reports and submits to ADB.
20. UREP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently UREP is staffed with a Head of Division, and one specialist who is responsible for both resettlement and environmental issues.
21. ADB is the donor financing the Investment Program Environmental management organization is shown in Figure 1 and Figure 2.

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

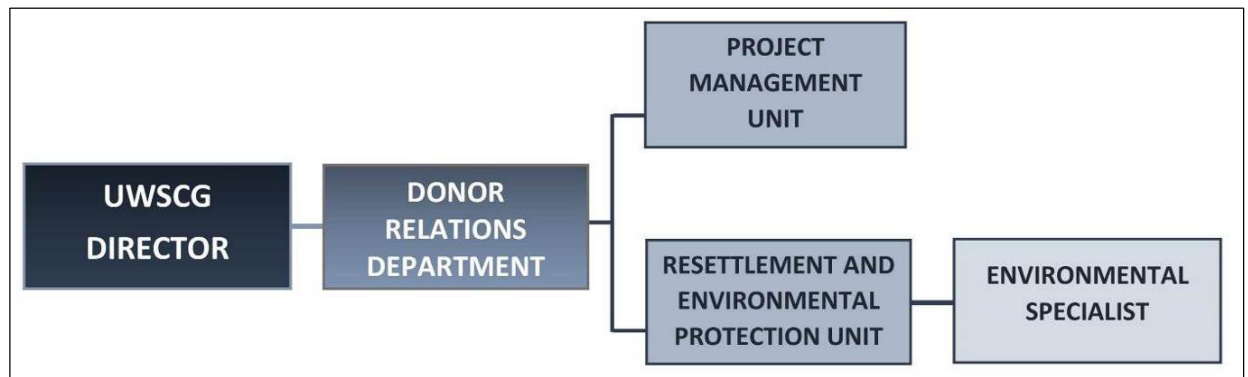
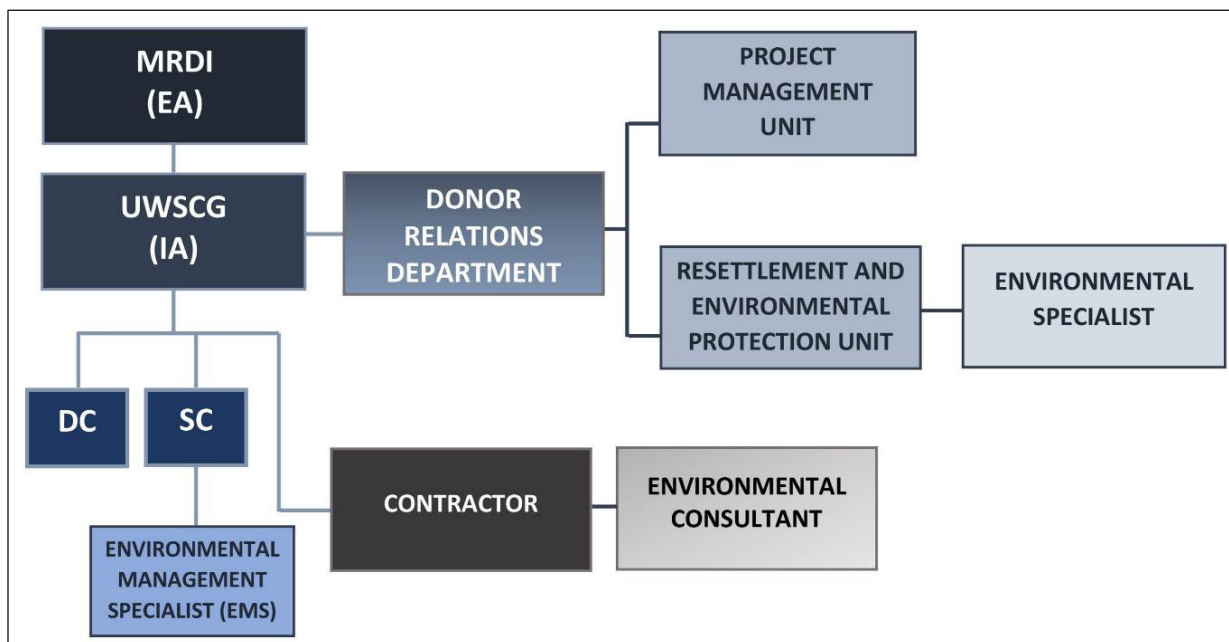


Figure 2: Structure Diagram of the Agencies Involved in Investment Program Implementation



1.3 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 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 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/UREP 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. SSEMPs were prepared by contractor, endorsed by SC/Eptisa and approved by UWSCG/UREP.
27. SC is responsible for environmental capacity building, monitoring of implementation of SEMP's and for developing quarterly reports. The Contractor has a full time Environmental Specialist who carries out day to day monitoring and submits monthly progress reports.
28. ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.
29. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/UREP, Eptisa and Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.

30. A Grievance Redress Committee has been established within Aan-01 Project for Anaklia, that will be functional for Reg-02 of Anaklia WWTP as well. A new GRC is established for Ure-01 project.
31. Contractor of REG-02 project operated during the reporting period with the following sub-contractor: Ltd “Prime Concrete”.
32. Below are the list of subcontractors of “Ludwig Pfeiffer Hech und Tiefbau GmbH and Co” under the Reg-02 project
- Zugdidi Municipality – contract was signed for disposal of Municipal Waste from Anaklia WWTP site to the Zugdidi landfill
 - “Solid Waste Management Company of Georgia” – contract was signed for disposal of Solid Waste from Anaklia WWTP site to the Zugdidi landfill
33. Below are the list of subcontractors of PERI Ltd (Ure-01 project) for Disposal of Municipal Waste and extraction of minerals (gravel, ballast, etc)
- Ureki Municipality - contract was signed for disposal of Municipal Waste from Ureki WWTP site to the Ureki landfill
 - License issued to Ltd Peri by the MoENRP for mineral extraction (gravel, ballast) on the basis of the purchase agreement signed between the Ltd “Peri” and Ltd “Anagi”.
34. Monthly site meetings have taken place with all Contractors during the reporting period, with a focus on progress and technical problems as well as environmental safeguard issues.
35. Under the REG-02 and Ure-01 project contractors has signed agreement with “National Environmental Agency” for the bi-annual monitoring measurements (dust, CO, NO₂, SO₂, noise) of all construction sites.
36. Project organization for the awarded contracts listed above is given in the table 2 below.

Table 2: List of contracts under USIIP, T2

Contract #	Employer	Contractor
Contract No: (UWSC/ICB/CW/2012/ANA-01)	UWSCG	Joint Venture of Peri Ltd and Modern Business Group LLC
Contract No: (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
Contract No: UWSCG/USSIIP/ICB/CW/REG-02	UWSCG	JV of Ludwig Pfeiffer Hoch-und Tiefbau GmbH & Co.KG (Germany) and ProtechnoSrl (Italy)
Contract No: P43405-ICB-URE-01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)

PART II - ENVIRONMENTAL MONITORING

37. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of UREP under USIIP on a regular basis, during the period January-June 2016. Unscheduled monitoring visits were carried out also and non-compliance notes have been issued to the contractor as needed. Mitigation measures to reduce major environmental impacts have been instructed to contractors during the monitoring visits.
38. The monitoring activities included monitoring of compliance of construction activities under Reg-02 project sites to the SSEMP requirements.
39. Environmental Monitoring Specialist hired under the REG-02 subproject conducted the day-to-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Eptisa.
40. Environmental Monitoring Specialist of SC developed quarterly monitoring reports for UWSCG/UREP based on the monthly reports submitted by Contractor, and based on environmental site inspection.
41. ES of UREP performed monitoring of contractor's performance with the approved EMPs and SSEMPs, environmental standards and other environmental commitments of the contractor. ES developed bi-annual and annual environmental monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.
42. The USIIP's Environmental Impact Monitoring and Mitigation is carried out in accordance with the updated EMPs and SSEMPs prepared by the Contractors. The construction activities affecting the environment are as follows:
 - Site Establishment
 - Site Clearance and Topsoil Stripping
 - Excavation Works
43. The following items are monitored during the implementation of the project: (only REG-02 is reported in this EMR).
 - Air Quality
 - Noise
 - Topsoil Stripping
44. 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.

D. Monitoring Measurement Data

Anaklia Waste Water Treatment Plant (Contract REG-02):

45. The Environmental Measurements were carried out by the contractors at various construction sites in Anaklia and Ureki. The National Environmental Standard (Maximum Permissible Level) for Dust is 0,5 Mg/m³, for CO is 5,0 Mg/m³, for SO₂ – 0,5 Mg/m³.. Noise level is regulated by the Decree No. 297/N "On Approval of Environmental Quality Norms" (August 16, 2001 of the Ministry of Labor, Health and Social Affairs).
46. Noise impacts should not exceed the levels presented in Table 3, or result in a maximum increase in background levels of 3 dB at the nearest receptor location off-site.

Table 3: Noise Level Guidelines

Noise	dB	
	Daytime 07:00 - 22:00	Nighttime 22:00 - 07:00
Receptor		
Residential; institutional; educational	55	45
Industrial; commercial	70	70

47. The monitoring measurements were carried out in June 2016 (See Annex A) under the Reg-02 project. Location and data are included in the table below (Table 3). The next monitoring measurements will be conducted in September 2016. The frequency, time and place of the measurements will be agreed between the Contractor, SC and UWSCG and will be indicated in the next July-December EMR of 2016.. According to data received in June 2016 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of Dust, CO, NO₂, SO₂ and Noise, therefore no additional mitigations are required. All measurements were carried out during the day time 15:00pm.

48. The monitoring measurements were carried out by contractor/Peri (Ure-01) in various construction sites in June 2016 (See Annex 1). Location and data are included in the table below. The next monitoring measurements will be conducted in September 2016 and results will be reflected in the next July-December 2016 EMR. According to data received in June 2016 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of Dust, CO, NO₂, SO₂ and Noise, therefore no additional mitigations are required. All measurements were carried out during the day time 13:00pm.

Table 3: Monitoring measurements under REG-02 and URE-01**REG-02**

N	Place of measurement	Coordinates	Results				
			Dusts Mg/m ³	CO Mg/m ³	NO ₂ Mg/m ³	SO ₂ Mg/m ³	Noise db
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	70
1.	Anaklia, at Main road connection	0713640 4697366	0.085	0.31	0,001	<0,1	54,2
2.	Anaklia, at the construction site	0714137 4697757	0.022	0.25	0.001	<0,1	52,4

URE-01

Sampling place coordinates	Sample N	Noise DB	Concentration mg/m ³					
			Saturated hydrocarbons	Carbon oxide CO	Nitrogen dioxide NO ₂	Dust	Sulfur dioxide SO ₂	Hydrogen sulfide H ₂ S
Tsvermagala X 0730415 Y 4649265	1	40,1	0	0,11	<0,001	0,002	<0,1	<0,1
	2	41,3	0	0,22	<0,001	0,004	<0,1	<0,1
	3	41,2	0	0,22	<0,001	0,006	<0,1	<0,1
	4	39,7	0	0,08	<0,001	0,001	<0,1	<0,1
Ureki X 729069 Y 4652470	1	48,2	0	0,31	<0,001	0,032	<0,1	<0,1
	2	64,2	1	1,28	0,005	0,248	<0,1	<0,1
	3	63,7	1	1,29	0,007	0,201	<0,1	<0,1
	4	64,4	1	1,2	0,004	0,194	<0,1	<0,1
Ureki (Beside five-story building) X 730159 Y 4652634	1	47,3	0	0,12	0,001	0,003	<0,1	<0,1
	2	50,1	1	1,18	0,002	0,027	<0,1	<0,1
	3	58,0	1	1,29	0,008	0,021	<0,1	<0,1
	4	46,4	0	0,8	0,001	0,02	<0,1	<0,1
Natanebi X 730195 Y 4648085	1	48,6	0	0,22	0,001	0,007	<0,1	<0,1
	2	69,3	1	0,94	0,012	0,128	<0,1	<0,1
	3	67,0	1	1,02	0,007	0,157	<0,1	<0,1
	4	60,1	1	0,77	0,004	0,094	<0,1	<0,1

PART III - ENVIRONMENTAL MANAGEMENT

3.1 The Environmental Management System, site-specific environmental management plan (SSEMP) and work plans

49. The Site-Specific Environmental Management Plans (SSEMP) have been prepared by the Contractor for Anaklia WWTP under the Reg-02 and Ure-01 projects, before commencement of construction activities. SSEMPs were endorsed by SC/Eptisa, approved by UWSCG and reviewed/commented by the RETA National Environmental Consultant of ADB - Ms. Kate Dgebuadze during July-December 2015. Status of the SSEMP is presented in table 4. No SSEMP has been prepared for the waste water component (laying of sewerage network) under the Ure-01 project.

50. Status of Environmental management plans is summarized in the table below:

Table 4: Status of Environmental management plans

Management Plan	Status	Date of Submission
Environmental Management Plan/Site-Specific EMP (SSEMP) under Reg-02 project, in particular: Anaklia WWTP	Submitted, and approved	July 2015

3.2 Site Inspections and Audits

51. Regular site monitoring visits were carried out during the reporting period by Eptisa and UWSCG for REG-02 and Ure-02 projects. Some monitoring visits were conducted jointly by the SC/EMS and ES of USIIP. During the field visits a number of EHS issues were noted and brought to the attention of the Environmental Consultant and the H&S manager of REG-02 and URE-01 project contractor. Mitigation measures were then discussed with the contractor on-site and detailed instructions were given. Good Practice in compliance with Georgian and international H&S legislation were therefore enforced in accordance with the legislation and the Contractor's contract for REG-02 and URE-01 projects.

52. Site inspection and audit during the reporting period have been carried out on: 22 February, 26-28 February, 9-11 March, 12-13 April and 20-22 April and 7-8 June of 2016. Non-compliance notes issued during the site visits are presented in Annex C.

53. A summary of the identified issues during the site monitoring by EMS/SC and USIIP ES, recommended mitigations and the status of implementation is presented in Annex D.

3.3 Non-Compliance Notices

REG-02 and URE-01

54. All corrective actions requested after the Monitoring of sites were mostly improved by contractor; however, there were some environmental issues that were not addressed adequately. During the course of the construction supervision in the previous six months of the works two “Non-compliance notices” were issued by the environmental specialists of Eptisa and UWSCG to the contractor. Main Findings revealed during the monitoring of the sites are described in Table 5 below.

55. It should be mentioned that all permits, licenses and agreements are on place and available at camp site.

3.4 Corrective Action Plans

56. For the purpose of resolving the observed issues instructions were given to contractor and regular environmental meetings were carried out with the participation of UWSCG/IPMO/UREP, Eptisa, contractors. During the meetings environmental issues and implementation of the mitigation measures were discussed.

Table 5: Actions taken for implementation of mitigation measures under REG-02 by the end of June 2016.

REG-02

Construction Site	Environmental Issues	Action taken
Anaklia WWTP	Site should be well organized and cleaned regularly, including internal roads	Partially Completed
	Hazardous and Household waste containers should be labeled (for example “Hazardous Waste”, “Household Waste”)	Completed
	Waste temporary disposal should be placed on concrete platform and under relevant roofing	Completed
	Waste from the container should be removed timely	Partially Completed
	Warning signs should be installed on perimeter of the site (from all 4 sides to avoid non-authorized entry)	Completed

URE-01

Construction Site	Environmental Issues	Action taken
Ureki/Network	Construction materials should be brought when needed to avoid its long time disposal of pipes in the streets	Not completed
	Tarpaulins cover during materials transportation should be used	Partially Completed
	Materials for refilling of tranches should be brought to the site when refilling is to start	Partially Completed

57. These issues were captured in project photos and are shown in Annex B.

58. An Annual Environmental Compliance Safeguard Review Mission was carried out on 20-22 April 2016 to review environmental safeguards compliance of USIIP projects.

3.5 Actions taken to reflect the findings of ADB mission carried out on 20-22 April 2016:

Table 6: Status of findings of ADB mission carried out on 20-22 April 2016

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
Construction of the Waste Water Treatment Plant in Anaklia – T 2			
Reg-02 Anaklia WWTP	Anaklia WWTP: Company Waste Management Plan has to be submitted to MoENRP for approval according to new Waste Management Code of Georgia.	December, 2016	Not Submitted yet. Will be submitted by the end of December 2016.
	Temporary fencing is installed around the site. Permanent fencing (2 m walls) will be constructed in September 2016 by the CC.	September 2016	Completed No additional actions are required
	In order to monitor measurements under the REG-02 project, Contract to be signed with “National Environmental Agency”. Measurements of air, water and noise quality will be performed quarterly.		Completed Measurement data are presented in submitted Bi-Annual EMR.
	Hazardous waste management should be improved: hazardous waste storage area for drums with contaminated soil and with other hazardous materials was not in a good condition and need to be		Contractor improved management of the hazardous waste based on the instructions given by SC and UWSCG and National Environmental

	improved. Contractor was informed and asked to take immediate actions.		Consultant during the site visit.
Ure-01	Company Waste Management Plan to be prepared and submitted to the MoENRP for approval till December 2016.	December 2016	Will be prepared and submitted to MoENRP by the end of 2016.

Actions taken regarding the action plan of the EMR July-December 2015:

Table 7: Status of implementation of action plan of July-December 2015

Specific issues: Recommendations REG-02 Anaklia WWTP	Implementation Status
Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored.	Partially Completed
Non-hazardous waste container should be collected timely to avoid overfilling	Completed

59. Conduct monitoring of environmental quality under REG-02 and Ure-01 projects at Anaklia WWTP site and waste Water Network in Ureki.

Table 8: Parameters to be measured under the Reg-02 and Ure-01 projects

Specific issues: Parameters to be measured under the Reg-02 and Ure-01 projects	Implementation Status
Dust	Completed (Measurement data are reflected in presented EMR)
Vibration	
Carbon monoxide	Completed
Nitrogen dioxide	
Sulfur dioxide	
Noise	

3.6 Consultations and Complaints

Public Awareness Activities

60. In January-June 2016 regular meetings were held for the households living in Anaklia, with participation of PR department of UWSCG, UWSCG local office, contractor's and Eptisa's public awareness specialists.

61. Local population was provided with the brochures and information about the project and planned activities. These brochures include information about the GRM System and GRC.
62. During the reporting period a public opinion survey was conducted in Uraki to find out what type of information the affected population has about the Ureki water supply project, what type of additional information they would like to receive and through which communication channels. 50 households in Ureki are being surveyed by the Eptisa local PA consultant under the supervision of Eptisa national PA consultant. The survey will help national PA consultant to plan further outreach and information campaign in Ureki and better tailor it to the needs of the local population. The survey will be presented to local and national PR specialists and other relevant representatives of UWSCG, Eptisa and the construction company. The main findings and recommendations of the above survey will be presented in the next EMR of July-December 2016.

Trainings

63. Instruction type environmental safeguard trainings were organized for environmental representatives of Reg-02 and introduced them with necessary safeguard requirements.
64. The main issues of discussion were the obligations of contractor in terms of environmental safeguards and issues that are to be managed during construction process.
65. The issues of discussion were as follows:
 - Site management
 - SSEMPs and its implementation
 - All necessary environmental mitigation measures

Grievance redresses mechanism (GRM)

66. For the effective implementation of a GRM system under the USIIP, UWSCG issued special order (#122) on 30 April 2014. The “Establishment of GRM within the Framework of the Asian Development Bank Funded Projects” signed by the head of UWSCG gives clear instructions to every involved stakeholder how to act when affected people are impacted by the project. Detail procedures for GRM System is provided in Annex E. No compliance has been received under the Reg-02 and Ure-01 projects during the reporting period.

PART IV – CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD

4.1 Conclusions and recommendations

67. As presented in this report, Tranche-2 of this Investment Program is being implemented in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF.
68. Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMPs and SEMP for REG-02 project.
69. More detailed recommendations are with indication of the entities responsible for their implementation are provided in the table below:

Table 9: Recommendations to address Environmental Issues

Recommendations REG-02	Responsible Party
Anaklia WWTP	

To prepare project Waste Management Plan.	WMP to be endorsed by SC/Eptisa and approve by UWSCG
Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored.	Contractor, SC and UWSCG to monitor
Waste temporary disposal should be placed on concrete platform and under relevant roofing	Contractor
Waste from the container should be removed timely	Contractor
Recommendations URE-01 Ureki Network	Responsible Party
To prepare project Waste Management Plan.	Contractor to prepare WMP to be endorsed by SC/Eptisa and approve by UWSCG
Construction materials should be brought when needed to avoid its long time disposal of pipes in the streets	Contractor
Tarpaulins cover during materials transportation should be used	Contractor
Materials for refilling of tranches should be brought to the site when refilling is to start	Contractor

4.2 Action Plan for the next period

70. Conduct monitoring of environmental quality under REG-02 project at Anaklia WWTP site and URE-01 project at network site, September 2016.


Table 10: The specific plan environmental measurement is as follows:

Parameters	Quarterly measurement
Dust	September 2016
Vibration	September 2016
carbon monoxide	September 2016
nitrogen dioxide	September 2016
sulfur dioxide	September 2016
Noise	September 2016

ANNEX A: MEASUREMENT DATA (REG-02, URE-01 PROJECTS)

Reg-02 Project

საქართველოს გარემოსა და ბუნებრივი რესურსების დაცვის სამინისტრო
MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES PROTECTION OF GEORGIA

 **გარემოს ეროვნული სააგენტო**
NATIONAL ENVIRONMENTAL AGENCY

№ 12/1-628 05 04 2016


შპს „ლუდვიგ პფაიფერ ჰოხ უნდ ტიფზაუ და
კო.კგ-ის წამომადგენლობა საქართველოში“-ს
დირექტორს **ზ-ნ გიორგი ჟვანიას**


ბატონო გიორგი,

საქართველოსგარემოსა და ბუნებრივი რესურსების დაცვის სამინისტროს ს.ს.ი.პ
„გარემოს ეროვნულ სააგენტო“-სა და შპს „ლუდვიგ პფაიფერ ჰოხ უნდ ტიფზაუ დაკო.კგ-ის
წარმომადგენლობა საქართველოში“-ს შორის 2016 წლის 27 ივნისს გაფორმებული ფასიანი
მომსახურების შესახებ ფმ-3/587 ხელშეკრულების თანახმად, გაწვდით დაბა ანაკლიასა და დაბა
ურეში, თქვენს მიერ მითითებულ ატმოსფერული ჰაერის სამ წერტილში - ხმაურის, ნახშირის
დიოქსიდის, აზოტის დიოქსიდის, მტვერისა და გოგირდის დიოქსიდის შემცველობის
გაზომვის შედეგებს ქართულ და ინგლისურ ენაზე.

დანართი: 2 გვ.

პატივისცემით,

სააგენტოს უფროსი  **თამარ ბაგრატია**



დ. ალმაშენებლის ბაზ. 150, 0112, თბილისი, საქართველო
150 D. AGMASHENEBELI AVE, 0112, TBILISI, GEORGIA

Tel.: +995 32 2439502 FAX: +995 32 2439503
E-mail: info@meteo.gov.ge Web: www.meteo.gov.ge

ინფორმაცია
ატმოსფერულ ჰაერში დამაბინძურებელ ინგრედიენტთა კონცენტრაციის შესახებ
შპს „ფაიფერი“ 02 ივლისი 2016

სინჯის აღების ადგილი, კოორდინატები	ხმაური, დბ	მტვერი, მგ/მ³	გოგირდის დიოქსიდი, მგ/მ³	აზოტის დიოქსიდი, მგ/მ³	ნახშირჟანგი, მგ/მ³
ანაკლია X 0713640 Y 4697365	54,2	0.085	<0.1	0.001	0.31
საწარმოს ტერიტორია X 0714137 Y 4697757	52.4	0.022	<0.1	<0.001	0.25
ურევი X 0730237 Y 4650518	63,7	0.048	<0.1	0.009	0.45

შემსრულებლები:

მთავარი სპეციალისტი

მთავარი სპეციალისტი

უფროსი სპეციალისტი

ო. ყენია

ს. ხაგავა

გ. ხაჩიშვილი

შეთანხმებულია:

გარემოს დამაბინძურების მონიტორინგის

დეპარტამენტის უფროსის მოვალეობის შემსრულებელი

თ. მალაქელიძე



Concentration of harmful substances in atmospheric

02.07.2016

Samplin place coordinates	Concentration mg/m ³				
	Noise DB	Dust	Sulfur dioxide SO ₂	Nitrogen dioxide NO ₂	Carbon oxide CO
Anaklia X 0713640 Y 4697365	54,2	0.085	<0.1	0.001	0.31
Enterprise area Anaklia X 0714137 Y 4697757	52.4	0.022	<0.1	<0.001	0.25
Ureki X 0730237 Y 4650518	63,7	0.048	<0.1	0.009	0.45

Executors:

Main specialist

Main specialist

Senior specialist

Agreed:Acting Head Environmental Pollution
Monitoring Department

Kenia O. Kenia
S.Khatsava
G. Khachishvili G. Khachishvili

T.Maglakelidze

ინფორმაცია
ატმოსფერულ ჰაერში დამაბინძურებელ ინგრედიენტთა კონცენტრაციის შესახებ
შპს „ვერი“ 30 ივნისი 2016

სინჯის აღების აღმდელი, კოორდინატები	ფ.წ.წ. მ.წ.	ხმაური დბ	კონცენტრაცია მგ/მ³					
			ნაჯერი ნაბმირწყალბადები	ნაბმირბადის ოქსიდი CO	აზოტის დოქსიდი NO _x	მტვერი	გოგირდის დოქსიდი SO ₂	გოგირდწყალბადი H ₂ S
წვერმაღალა X 0730415 Y 4649265	1	40,1	0	0,11	<0,001	0,002	<0,1	<0,1
	2	41,3	0	0,22	<0,001	0,004	<0,1	<0,1
	3	41,2	0	0,22	<0,001	0,006	<0,1	<0,1
	4	39,7	0	0,08	<0,001	0,001	<0,1	<0,1
ურეკი (პოლიციის ბოლი) X 729069 Y 4652470	1	48,2	0	0,31	<0,001	0,032	<0,1	<0,1
	2	64,2	1	1,28	0,005	0,248	<0,1	<0,1
	3	63,7	1	1,29	0,007	0,201	<0,1	<0,1
	4	64,4	1	1,2	0,004	0,194	<0,1	<0,1
ურეკი (5 სართულიანებიან) X 730159 Y 4652634	1	47,3	0	0,12	0,001	0,003	<0,1	<0,1
	2	50,1	1	1,18	0,002	0,027	<0,1	<0,1
	3	58,0	1	1,29	0,008	0,021	<0,1	<0,1
	4	46,4	0	0,8	0,001	0,02	<0,1	<0,1
ნატანები X 730195 Y 4648085	1	48,6	0	0,22	0,001	0,007	<0,1	<0,1
	2	69,3	1	0,94	0,012	0,128	<0,1	<0,1
	3	67,0	1	1,02	0,007	0,157	<0,1	<0,1
	4	60,1	1	0,77	0,004	0,094	<0,1	<0,1

შემსრულებლები:

მთავარი სპეციალისტი

მთავარი სპეციალისტი

უფროსი სპეციალისტი

შეთანხმებულია:

გარემოს დამინდურების მონიტორინგის დეპარტამენტის

უფროსის მოვალეობის შემსრულებელი



ო.ყენია
ს.ხაჩიშვილი
გ.ხაჩიშვილი

თ. მაღალაკელიძე

Ure-01 Project

Concentration of harmful substances in atmospheric

Samplin place coordinates	Sample N	Noise DB	Concentration mg/m ³					
			Saturated hydrocarbons	Carbon oxide CO	Nitrogen dioxide NO ₂	Dust	Sulfur dioxide SO ₂	Hydrogen sulfide H ₂ S
Tsvermagala X 0730415 Y 4649265	1	40,1	0	0,11	<0,001	0,002	<0,1	<0,1
	2	41,3	0	0,22	<0,001	0,004	<0,1	<0,1
	3	41,2	0	0,22	<0,001	0,006	<0,1	<0,1
	4	39,7	0	0,08	<0,001	0,001	<0,1	<0,1
Ureki X 729069 Y 4652470	1	48,2	0	0,31	<0,001	0,032	<0,1	<0,1
	2	64,2	1	1,28	0,005	0,248	<0,1	<0,1
	3	63,7	1	1,29	0,007	0,201	<0,1	<0,1
	4	64,4	1	1,2	0,004	0,194	<0,1	<0,1
Ureki (Beside five-story building) X 730159 Y 4652634	1	47,3	0	0,12	0,001	0,003	<0,1	<0,1
	2	50,1	1	1,18	0,002	0,027	<0,1	<0,1
	3	58,0	1	1,29	0,008	0,021	<0,1	<0,1
	4	46,4	0	0,8	0,001	0,02	<0,1	<0,1
Natanebi X 730195 Y 4648085	1	48,6	0	0,22	0,001	0,007	<0,1	<0,1
	2	69,3	1	0,94	0,012	0,128	<0,1	<0,1
	3	67,0	1	1,02	0,007	0,157	<0,1	<0,1
	4	60,1	1	0,77	0,004	0,094	<0,1	<0,1

Executors:

Main specialist
Main specialist
Senior specialist

Gen'e O. Kenia
hi S.Khatsava
gs G. Khachishvili

Agreed:

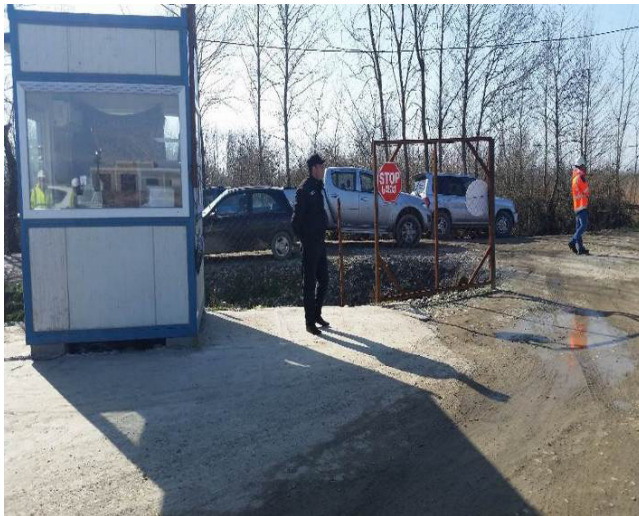
Acting Head Environmental Pollution
Monitoring Department



T.Maglakelidze

ANNEX B: PHOTOS OF SITES

Reg-02: Anaklia WWTP Site



Reg-02 project: Top soil stored on site







Ure-01 project: Presentation of the project, during the ADB's mission.



ANNEX C: MONITORING REPORTS

Non-Compliance Notice

Project: USIIP	<p align="center">on-compliance Notice</p> <p align="center">ANAKLIA</p>								
Contract No: REG-02									
Contractor: PFIEFFER									
Reference: ANAKLIA – WWTP SITE									
<p>This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented urgently.</p>									
<p><u>NON-COMPLIANCE IN ANAKLIA</u></p> <p>ANAKLIA WWTP SITE</p> <ul style="list-style-type: none"> - Site should be well organized and cleaned regularly, including internal roads - Hazardous and Household waste containers should be labeled (for example “Hazardous Waste”, “Household Waste”) - Waste temporary disposal should be placed on concrete platform and under relevant roofing - Waste from the container should be removed timely - Warning signs should be installed on perimeter of the site (from all 4 sides to avoid non-authorized entry) 									
<div style="display: flex; justify-content: space-around;">     </div>									
<p>All these conditions have to be remedied within two days (by the end of 5 May 2016) by the prime Contractor (Pfeiffer).</p>									
<table border="1"> <tr> <td>Date of site visits: 21.04.2016</td> <td></td> </tr> <tr> <td>Ketevan Chomakhidze – USIIP UWSCG</td> <td></td> </tr> <tr> <td>Maka Goderdzishvili - UWSCG</td> <td></td> </tr> <tr> <td>Irakli Legashvili - Eptisa</td> <td></td> </tr> </table>		Date of site visits: 21.04.2016		Ketevan Chomakhidze – USIIP UWSCG		Maka Goderdzishvili - UWSCG		Irakli Legashvili - Eptisa	
Date of site visits: 21.04.2016									
Ketevan Chomakhidze – USIIP UWSCG									
Maka Goderdzishvili - UWSCG									
Irakli Legashvili - Eptisa									

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-02	
Contractor: PFIEFFER	
Reference: UREKI – WWTP SITE	

This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented **urgently**.

NON-COMPLIANCE IN UREKI

UREKI WWTP SITE

- Construction area should be fenced from all sides, since there are cases of cattle entering the site
- Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil (that seems huge amount) should be taken away for its final disposal (in agreement with municipality)
- Permanent on-site Environmental specialist of contractor should be appointed URGENTLY!
- The pile of topsoil should be watered regularly
- Relevant information signs should be installed inside of the site for each facility
- Safety signs/tapes and relevant trench side barriers around of deep ditch should be installed
- Tarpaulins cover during materials transportation should be used always
- All construction materials should be properly segregated and stored adequately
- Proper place for Parking with relevant sign should be allocated and arranged. Current allocation is NOT relevant and enough for serving of all vehicles
- Fuel/lubricant containers should be stored properly in special place with roofing and concrete platform
- All equipment & vehicles used for construction activity should be in good condition (non-leaking) and well maintained. Old bulldozer operating at the site should be monitored routinely and driver trained for first response in case of oil spill
- Dust prevention activities (watering of territory) should be carried out on regular basis (dry season arrived!)
- All workers (even personnel of subcontractor) should be equipped with complete PPE
- Site should be lightened at night time



All these conditions have to be remedied within five days (by the 7 June 2016) by the prime Contractor (Pfeiffer).

Date of site visits: 01.06.2016

Irakli Legashvili EPTISA Environment	
Ketevan Chomakhidze UWSCG - USIIP	
Maka Goderdzishvili UWSCG – Head of Environment	

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-01	
Contractor: PERI	
Reference: UREKI – Network; Pumping Station	

This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented **urgently**.

NON-COMPLIANCE IN UREKI

NETWORK

Construction materials should be brought when needed to avoid its long time disposal of pipes in the streets (to be improved immediately)

- Tarpaulins cover during materials transportation should be used
- Materials for refilling of tranches should be brought to the site when refilling is to start
- Workers always should wear PPE



PUMPING STATION

- Construction area should be fenced with metal net material from all sides with proper lockable gate
- Proper safety and information signs should be installed at the entrance and perimeter of the site
- All trees at the construction area should be protected to avoid its damage
- Proper household and hazardous waste container with relevant sign and cover should be installed
- Oil spill elimination items should be installed
- All workers should be equipped with complete PPE



All these conditions have to be remedied within three days (by the 22 February 2016) by the prime Contractor (Peri).

Date of site visits: 17-18.02.16

Irakli Legashvili EPTISA - Environment

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

Reference	Requirement	Action to date	Action required/comment
Reg-02 Anaklia WWTP			
	Temporary fencing is installed around the site. Permanent fencing (2 m walls) will be constructed in September 2016 by the CC.	Completed	No additional actions are required
	Site internally should be arranged properly and cleaned regularly. All construction materials should be properly stored	Partially completed	Instruction is given to contractor to improve the situation
	Hazardous Waste containers should be installed with relevant signs	completed	No additional actions are required
Ure-01 Sewerage network			
	Construction materials should be brought when needed to avoid its long time disposal of pipes in the streets	Not Completed	Contractor was instructed to immediately improve the situation and do not induce a threat to traffic
	Tarpaulins cover during materials transportation should be used	Partially Completed	Contractor was instructed to improve the situation
	Materials for refilling of tranches should be brought to the site when refilling is to start	Partially completed	Contractor was instructed to improve the situation

ANNEX E: GRIEVANCE REDRESS MECHANISM

GRM System

71. For the effective implementation of a GRM system under the USIIP, UWSCG issued special order (#122) on 30 April 2014. The “Establishment of GRM within the Framework of the Asian Development Bank Funded Projects” signed by the head of UWSCG gives clear instructions to every involved stakeholder how to act when affected people are impacted by the project.
72. After issuance of the special order, a GRM was first set up by UWSCG under the REG-01 project of USIIP (operational since April, 2014) that includes rehabilitation of water supply system in Kutaisi. The GRM allows affected people to appeal any disagreeable decision, practice or activity arising from project implementation.
73. Any affected person can apply at a UWSCG local service centre through different ways, either by going to the service centre, sending a letter to the service centre, or calling a hotline. The operators of the service centre can respond by going directly to the affected person if they are disabled to get the written grievance from them.
74. During the first stage, complaints are discussed within two weeks of being received by the local service centre of UWSCG, based on the verbal or written complaint. In the first stage of grievance review and resolution, an authorized representative of the local service centre is responsible for ensuring the registration of the claim and its further processing. He/she engages in the grievance review and resolution process representatives (managers and environmental specialists) of Construction and Supervision Companies, and the representatives of UWSCG central office as required. At the local service centre, the affected person is provided with a queue number and then registers the grievance at the service desk.
75. The service centre operators, who are trained¹ in USIIP/Reg-01project, register all relevant grievances with support of an online task management system, which tracks information on the grievance review process and the responsible person. Moreover, the operators fill the ADB complaints log with the registered grievance that coincides with local internal forms. This electronic intranet system² allows the UWSCG Tbilisi Office to immediately see claims. Therefore, claims submitted to any regional service centre can be monitored by the Head of the Investment Projects Management Office (IPMO), as well as the Head of the Environmental and Resettlement Division, Maka Goderdzishvili.
76. When a grievance is solved positively in the first stage, the grievance is closed through an Agreement Protocol, which is reflected in the e-Document – Task Management System.
77. The grievance enters a second stage if it is not solved. In that case, the authorized representative of the local service centre will help the claimant prepare a package of grievance application documents for official submission to the Grievance Redress Committee (GRC). The package contains the following information:
 - Name, ID, address and contact details of the claimant
 - Description of the essence of the complaint

¹ UWSCG and Supervision Consultant (Eptisa) conducted trainings for service center operators covering general procedures of GRM functioning in order to ensure proper coordination of different departments.

²The **eDocument - Task Management System** was developed by LEPL Financial-Analytical Service of the Ministry of Finance of Georgia. It is an innovative electronic document and task management mechanism for electronically processing of documents. Used by almost all the major budgetary organizations in Georgia, the e-Document service offers an opportunity to manage, find, and track documents for information-intensive organizations.

- Supporting documents and evidences (photos, maps, drawings/sketches, conclusion of experts or any other documents confirming the claim)
 - Brief description of the actions proposed for the grievance resolution at the first stage and the reasons why these actions were denied
 - Minutes of meetings conducted at the first stage
- 78.** The GRC should make a decision within two weeks after the registration of the grievance. The GRC is staffed as follows: (i) Representative of self-government – the head of committee; (ii) 99. Director/ Manager of UWSCG service centre; (iii) Investments Project Management Division representative of the company; (iv) Representative of local authoritative NGO (according to the claim reference); (v) Stakeholders' female representative;(vi) Stakeholders' informal representative; and (vii) Heads of local municipalities.
- 79.** The GRC will review the package of grievance documents, set a date for a meeting with the claimant, discuss the claim at the meeting, and set up a plan for further actions (actions, responsible persons, schedule etc.). Upon the resolution of the case, the GRC will prepare a brief resume and protocol and the protocol signed by complainant and all parties will be registered in a grievance log.
- 80.** There is a third stage in case there is a failure to resolve the grievance. In this case, GRC will help the claimant to prepare the documents for submission to the Rayon (municipal) court. They can also apply to ADB at the address below:
- *Complaints Receiving Officer, Accountability Mechanism*
 - *Asian Development Bank Headquarters*
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