

Bi-annual Environmental Monitoring Report

Project Number: 43405-023

Reporting Period: January-June 2018

Loan Number: 2807-GEO (SF)

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

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ABBREVIATIONS

ADB	Asian Development Bank
DC	Design Consultant
DEPRP	Department of Environmental protection, Resettlement and Construction Permit
DIPDR	Department of International Procurement and Donors Relations
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 Sector Improvement Investment Program
IA	Implementing Agency
IEE	Initial Environmental Examination
MTF	Multi-tranche Financing Facility
MoENRP	Ministry of Environment and Natural Resources Protection
MoRDI	Ministry of Regional Development & Infrastructure
PE	Population Equivalent
NEA	National Environmental Agency
SC	Supervision Consultant
UWSCG	United Water Supply Company of Georgia
WSS	Water Supply & Sewerage

TABLE OF CONTENTS

PART I – INTRODUCTION	
1.1 Construction activities and project progress during the previous 6 months	
A. General information about the program/SUBPROJECTS	
B. Post Construction Audit	
C. Construction activities and project progress during the previous 6 months	
1.2 Changes in Project Organization and Environmental Management Team	
PART II - ENVIRONMENTAL MONITORING	
D. Monitoring Measurement Data	
PART III - ENVIRONMENTAL MANAGEMENT	
3.1 The Environmental Management System, site-specific environmental management plan (SSEMP) and work plans	
3.2 Site Inspections and Audits	
3.3 Non-Compliance Notices	
3.4 Corrective Action Plans	
3.5 Actions taken to reflect the findings of ADB mission carried out on 28 September 2 October 2017	
3.6 Consultations and Complaints	
PART IV – CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD	
4.1 Conclusions and recommendations	
4.2 Action Plan for the next period	

ANNEXES:

ANNEX A:	Measurement Data
ANNEX B:	Photos of sites
ANNEX C:	Non-Compliance Notice
ANNEX D:	Implementation Report on the Environmental Impact Assessment (EIA)/Initial Environmental Examination (IEE) Mitigation Requirements
ANNEX E:	Grievance Redress Mechanism
ANNEX F:	Weekly Environmental Monitoring Report

LIST OF TABLES:

Table 1:	Project progress during the previous 6 months (January-June 2017)
Table 2:	List of contracts under USIIP/T2 – ANA-01, MES-02, REG-02 and URE-01
Table 3:	Parametric Measurement Guidelines
Table 4:	Noise Level Guidelines
Table 5:	Monitoring measurements under URE-01
Table 6:	The schedule of conducted audits and monitoring during the reporting period
Table 7:	Actions taken for implementation of mitigation measures under Ure-01 by the end of June 2018
Table 8:	Status of Findings of ADB Mission Carried Out on 26-28 January 2018
Table 9:	Status of implementation of action plan of July-December 2017
Table 10:	Recommendations to address Environmental Issues under Ure-01
Table 11:	The specific plan for environmental measurement (Ure-01)

LIST OF FIGURES:

Figure 1:	Structure Diagram of the Environmental Management Unit of UWSCG
Figure 2:	Structure Diagram of the Agencies Involved in Investment Program Implementation

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 2018 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 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).

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 / Phase 2 (on-going)
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 was scheduled for completion by the mid of August, 2015.
8. Construction works have been completed, but there are some disputed issues related to the correction of defects. Contractor, JV of New Energy Ltd. & Enguri 2006 Ltd., submitted final payment request on June 2015. IPMO and the technical department of UWSCG has evaluated the request and carried out visual survey of construction works in Mestia. As a result it was found that the works were incomplete (i.e. missing installed manholes) and that the construction supervision Company - Eptisa should carry out additional site inspection. Based on the above mentioned SC/Eptisa conducted post-facto inspection in Mestia to re-evaluate the works, developed final statement and sent to the UWSCG. Final approval of the payment request will be done by UWSCG.

B. Post Construction Audit

9. 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.
10. 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.
11. During the proposed reporting period, a contract was signed with an independent consultant to conduct the Post-Construction Environmental Audit and prepare a corresponding report under the sub-project Reg-02 / Anaklia WWTP. The main findings of this report will be presented at EMR for July-December 2018.

Ure-01 project

12. **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).

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

Construction Activities during previous 6 months under Ure-01 project (January-June 2018) are as follows:

Table 1: Project progress during the previous 6 months (January-June 2018).

URE-01

Site	Water Mains Installation
URE-01	
Works undertaken during January-June 2018	23.502 km of PE 100 pipes OD 710, SDR 11 installed – 99%
	2.482 km of Carbon Steel pipes OD 710, SDR 11 installed – 97%
Site	Water network
Works undertaken during January-June 2018	53.47 km of HDPE pipes DN 25-560 – 100%
Site	Sewerage network
Works undertaken during January-June 2018	68.417 km of PE 100 and corrugated pipes OD 110-500 mm, SDR 11 installed – 97%
Site	Construction of Reservoir #1
Works undertaken during January-June 2018	Excavation Works – 100%
	Drainage Installation Works – 90%
	Reinforced Concrete Works – 100%
Site	Well Field
Works undertaken during January-June 2018	Drilling Works – 100%
Site	WS Pumping Station
Works undertaken during January-June 2018	Construction Works – 100%
	Sewer PE Pumping Station
Works undertaken during January-June 2018	Installation Works – 80%

13. No construction Activities were carried out under Reg-02/Anaklia WWTP Sub-project during the reporting period.

1.2 Changes in Project Organization and Environmental Management Team

Agencies Involved in Investment Program Implementation

14. 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.
15. Ministry of Environmental Protection and Agriculture of Georgia (MEPA). MEPA has the overall responsibility for protection of environment in Georgia. The Department of Permits of MEPA is responsible for reviewing EIAs and for issuance of the Environmental Permits. MEPA is the main state body pursuing state policy in the sphere of environment. Their functions for regulating economic or development activities with regard to environmental protection include:
 - Issuing permits for project development (Environmental Decision)
 - Setting emission limits and issuing surface water intake and discharge consents
 - Responding to incidents and complaint
16. 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. In June 2018, the Director and Deputy Director of UWSCG were changed. Ms. Ekaterina Galdava was appointed as the new director, Ms. Maia Gikoshvili became the new Deputy Director. Investment Program Management Office (IPMO) under UWSCG is an International Procurement and Donors Relations Department. Department of Environmental Protection, Resettlement and Construction Permit (DEPRP) under USIIP replaced the existing Unit of Resettlement and Environmental Protection and consist of six staff members, including Head of Department and Head of Construction Permit Unit.
17. UWSCG as responsible IA for the project recruited a Supervision Consultant (SC) - Eptisa. 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.
18. 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 ¹SEMPs, Site Specific EMPs and Topic Specific EMPs of subprojects, an Environmental Management Specialist (EMS) is employed by the SC/Eptisa. SC/EMS conducts routine observations and surveys of project sites, issues non-compliance notes, prepares quarterly environmental reports and submits these to UWSCG.
19. The Contractor has the following obligations:
 - to prepare Site Environment Management Plans SEMPs with further Site Specific EMPs Topic Specific EMPs;

¹According to new Monitoring Manual of ADB for Environmental Safeguards Implementation, since June 2018 instead of Site Specific EMP (SSEMP) a "Site Environment Management Plan" (SEMP) with further Site Specific EMPs and Topic Specific EMPs must be developed by the Contractor.

- to employ Environmental Consultant responsible for developing and implementing the construction phase SEMP and for providing the corresponding information to UWSCG and SC;
- to develop Solid Waste Disposal Plan and agreed the MEPA and Local Government

20. DC is responsible for developing and incorporation of mitigation measures in design and construction.
21. The environmental specialist (ES) is hired by UWSCG under the USIIP to assist and advise the DEPRP 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 DEPRP in EARF implementation, in particular, reviewing IEE/EIA Reports and overseeing implementation of SEMP and in training and capacity-building activities. The ES prepares bi-annual and annual environmental monitoring reports and submits to ADB.
22. DEPRP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently DEPRP is staffed with a Head of Department. Head of Construction Permission Unit and 4 specialists, those are responsible for resettlement, environmental protection and construction permission issues.
23. 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

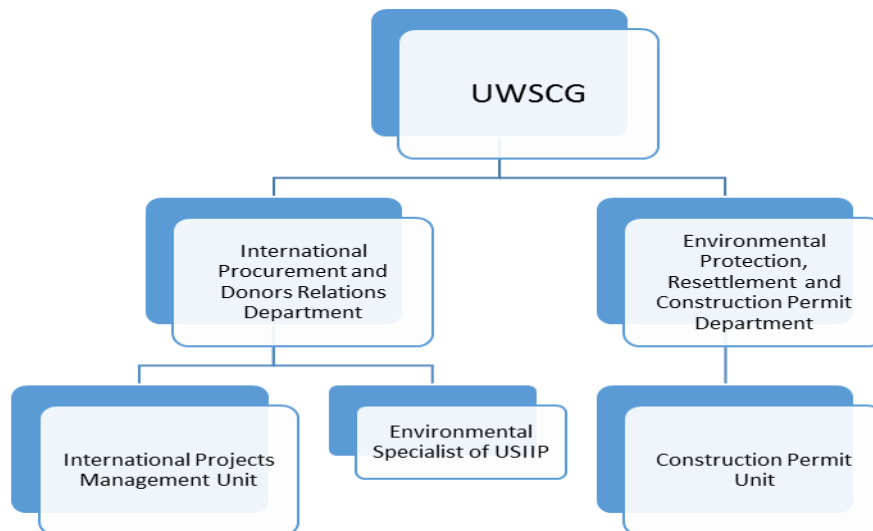
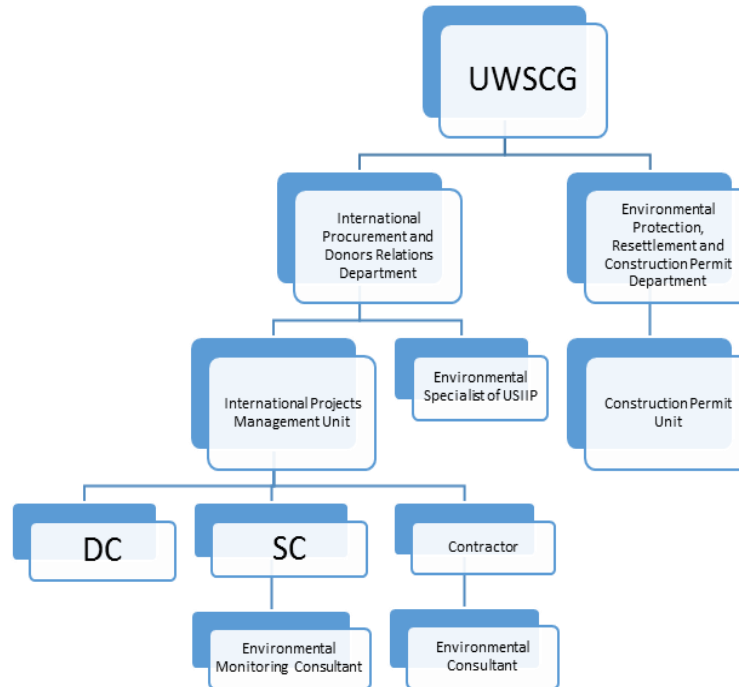


Figure 2: Structure Diagram of the Agencies Involved in Investment Program Implementation



1.3 Relationships with Contractors, Owner, Lender, etc

24. 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.
25. 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.
26. Oversight of the USIIP with regards to environmental management is the responsibility of the environmental safeguards team, in particular UWSCG/DEPRP and the Environmental Specialist of USIIP.
27. The team has constant communication with the Supervision Consultant, Contractor, reviews/ comments all environmental reports submitted by DC, SC and contractors.
28. SSEMPs were prepared by contractor, endorsed by SC/Eptisa and approved by UWSCG/DEPRP.
29. SC is responsible for environmental capacity building, monitoring of implementation of SEMP 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.
30. ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.

31. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/DEPRP, Eptisa and Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.
32. 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”.
 - Contract was signed with hazardous waste disposal company Ltd “Sanitari” in June 2017.
33. 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.
34. Under the 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. Monitoring measurements were conducted in May 2018 (please see Table 5, Annex A)
35. Project organization for the awarded contracts listed above is given in the table 2 below.

Table 2: List of contracts under USIIP/T2 – ANA-01, MES-02, REG-02 and URE-01

Contract #	Sub-project Title	Employer	Contractor
Contract No: UWSC/ICB/CW/2012/ANA-01	ANA-01	UWSCG	Joint Venture of Peri Ltd and Modern Business Group LLC
Contract No: UWSCG/ICB/CW/2011/MES-02	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/USSIP/ICB/CW/REG-02	REG-02	UWSCG	JV of Ludwig Pfeiffer Hoch- und Tiefbau GmbH & Co.KG (Germany) and ProtechnoSrl (Italy)
Contract No: P43405-ICB-URE-01	URE-01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)
Contract #	SC for T1,T2, T3	Employer	Consultant

Contract No: UWSCG/USIIP-QCBS-01	EPTISA	UWSCG	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)
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PART II - ENVIRONMENTAL MONITORING

36. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of USIIP on a regular basis, during the period January-June 2018. 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.
37. The monitoring activities included monitoring of compliance of construction activities under URE-01 project sites to the SSEMP requirements.
38. Environmental Monitoring Specialist hired under the URE-01 subproject conducted the day-to-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Eptisa.
39. Environmental Monitoring Specialist of SC developed monthly monitoring reports for UWSCG/DEPRP based on the weekly reports submitted by Contractor, and based on environmental site inspection.
40. ES of USIIP 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.
41. 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:
 - Excavation works
 - Removal of Surplus Soil
 - Removal of Vegetation
 - Backfilling of Trenches
 - Reinstatement Activities
42. In accordance with the IEE, and the accompanying Environmental Monitoring Plan (EMP), the Contractor is required to undertake parametric measurements and observations on air quality, noise, impact on flora and fauna and socio-cultural resources. Locations for the measurements were initially identified in the IEE. Accordingly, the monitoring guidelines were set as shown in the Table 3 below (Ure-01 is reported in this EMR):

Table 3: Parametric Measurement Guidelines

Parameters	Frequency & Location	Remarks
Ure-01		
Air Quality	Every 3 months Reservoir #1, Pumping Station, Networks, Transmission Main	Watering site during excavation works to avoid dust spreading Conduct measurements of Dusts Mg/m ³ ; CO Mg/m ³ ; NO ₂ Mg/m ³ ; SO ₂ Mg/m ³
Noise	Every 3 months Reservoir #1, Pumping Station, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Cultural heritage Disturbance to cultural resources	Every time along the alignment Archaeological & Cultural Properties	Contractor shall put in place a protocol for conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. Calling in the state archaeological authority if a find is suspected, and taking any action they require to ensure its removal or protection.

43. 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. Monitoring Measurement Data

Construction of Water Supply and Wastewater Network in Ureki / Phase 2
(Contract Ure-01):

44. The Environmental Measurements were carried out by the contractors at various construction sites in 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).
45. Noise impacts should not exceed the levels presented in Table 4, or result in a maximum increase in background levels of 3 dB at the nearest receptor location off-site where the values presented in Table 4 are already exceeded.

Table 4: Noise Level Guidelines

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

46. No monitoring measurements were carried out by Contractor under Reg-02/Anaklia sub-project during the reporting time as there were no construction activities.
47. Monitoring measurements under Ure-01 was conducted in various construction sites, including nearest sensitive receptors by the National Environmental Agency under the MEPA in June 2018 (See Table 5 (A) and Annex A). Location and data are included in the table below. The next monitoring measurements will be conducted in September 2018 and results will be reflected in the next July-December EMR 2018. According to data received in November 2018 the obtained results are within the National and International Environmental Standard (Maximum Permissible Level)/IFC/WHO as well as baseline measurement data and therefore additional mitigations are not required. All measurements were carried out at construction sites, were temporary and conducted during the daytime from 13:30 pm to 16:30 pm to correspond with the project working hours. No complaints were received from the local population about the noise during the reporting period.

Table 5: Monitoring measurements under Ure-01**Ure-01: Construction of Water Supply and Wastewater Network in Ureki**

N	Place of measurement	Samples #	Results				
			Dust Mg/m ³	CO Mg/m ³	NO2 Mg/m ³	SO2 Mg/m ³	Noise dBA Daytime 07:00 - 22:00
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	55 Residential; Institutional; Educational 70 Industrial; commercial <i>Note: Please see IFC/WHO in table 4 above</i>
	IFC/WHO standards		(*IFC does not have a standard for "inorganic dust". Instead IFC applies standards for PM2.5 and PM10). PM10 – 0,02/1 Year 0,05/24 Hour PM2,5-0,01/1 Year 0,025/24 Hour	N/A	0,2/ 1 Hour 0,04/1 Year		
1	Pumping Station X 0730383 Y 4649261	1	0.004	0.16	0,001	<0,1	42.1
		2	0.017	0.81	0,008	<0,1	43.0
		3	0.018	0.62	0,003	<0,1	43.3
		4	0.002	0.31	0,001	<0,1	42.2
2	Shekvetili X 0729754 Y 4644722	1	0.005	1.15	0,003	<0,1	50.6
		2	0.007	1.28	0,002	<0,1	51.4
		3	0.006	1.38	0,003	<0,1	50.8
		4	0.008	1.52	0,002	<0,1	51.9
3	Natanebi X 0733131 Y 4643222 X 0723511 Y 4643927	1	0.004	0.17	<0,001	<0,1	40.0
		2	0.015	0.2	0,007	<0,1	42.3
		3	0.015	0.22	0,006	<0,1	41.7

N	Place of measurement	Samples #	Results				
			Dust Mg/m ³	CO Mg/m ³	NO ₂ Mg/m ³	SO ₂ Mg/m ³	Noise dBA Daytime 07:00 - 22:00
		4	0.011	0.17	<0,001	<0,1	40.2
4	Tsvermagala Reservoir#1 X 0731266 Y 4649719	1	0.004	0.25	0,001	<0,1	40.2
		2	0.017	0.30	0,001	<0,1	40.8
		3	0.018	0.27	0,003	<0,1	40.3
		4	0.002	0.32	0,001	<0,1	40.5

B. Health and Safety

48. No incident and near misses were recorded during the reporting period January-June 2018.

PART III - ENVIRONMENTAL MANAGEMENT

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

49. The following SSEMPs have been prepared within the framework of Ure-01 project:

- SSEMP for Reservoir #1;
- SSEMP for Ureki Pumping Station;
- SSEMP for Ureki Well Fields

50. The following SSEMPs have been prepared under Reg-02 project/Anaklia WWTP sub-project:

- SSEMP for Anaklia WWTP.

51. No SSEMPs have been prepared within the reporting period of January-June 2018.

3.2 Site Inspections and Audits

52. Regular site monitoring visits were carried out during the reporting period by the Supervision Consultant - Eptisa and IPMO/UWSCG for Ure-01 project. Some monitoring visits were conducted jointly by environmental monitoring specialist of Supervision Company and environmental specialist of UESCG/USIIP. During the field visits a number of EHS issues were noted and brought to the attention to the Environmental Specialists and the H&S managers of contractors under the URE-01 project. 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 URE-01 projects.

53. Site inspection monitoring and audit during the reporting period have been carried out on: 26-28 January 2018; 17-18 April 2018; 23, 28 April 2018; 15 May 2018 and 29-30 June 2018. The schedule of conducted monitoring and audit during the reporting period is presented in the Table 6 below.

Table 6: The Schedule of Conducted Audits and Monitoring during the Reporting Period

#	Ure-01, Reg-02 and Tbilisi Office Building Site visits	Organization	Date
1	Day-to-Day Site Inspection	Environmental Specialists of Contractor under Ure-01 and Reg-02 Projects	1 January – 30 June 2018
2	Site Monitoring and Audit	Environmental specialist of USIIP, environmental specialists of Eptisa, International-Regional Environmental Safeguards Consultant Ms. Ketid Dgebuadze and Mr. Duncan Lang, Environmental Specialist, ADB	26-28 January 2018
3	Site Monitoring and Inspection	Environmental specialist of USIIP, environmental specialists of Eptisa	17-18 April 2018
4	Site Monitoring	Environmental specialist of USIIP, environmental specialists of Eptisa, International-Regional Environmental Safeguards Consultant Ms. Ketid Dgebuadze and Mr. Duncan Lang, Environmental Specialist, ADB as well as about 40 participants of "Training Workshop and Regional Exchange on Monitoring of Environmental Safeguards Implementation" (Batumi, Georgia, 19-21 April, 2018)	21 April 2018
5	Site Monitoring	Environmental specialist of Eptisa	28 April 2018
7	Site Monitoring and Inspection	Environmental specialist of USIIP and Environmental specialist of Eptisa	15 May 2018
8	Site Monitoring	Environmental specialist of USIIP	29-30 June 2018

54. A summary of the identified issues during the site monitoring by SC/EMS and USIIP ES, recommended mitigations and the status of implementation is presented in Annex D.
55. On April 21 2018, a site visit was held within the framework of the "Training Workshop and Regional Exchange on Monitoring of Environmental Safeguards Implementation" (Batumi, Georgia, 19-21 April, 2018) in Ureki, Georgia. About 40 regional representatives from Azerbaijan, Armenia, Kyrgyzstan, Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan participated in it. Site visit was also attended by the representatives of ADB/Manila Head Office Mr.Duncan Lung, ADB/RETA Ms.Ketid Dgebuadze, Contractor, Supervision Consultant and UWSCG/USIIP/IPMO.
56. The Ure-01 sub-project have been visited by Workshop participants under the "Urban Services Improvement Investment Program, T3 (43405-023).

57. Ureki is located only 51km away from Batumi and visitors could easily get to the construction site and simultaneously see two different projects: Ure-01 and Ure-02 under USIIP. The proposed site under Ure-01 were a Reservoir No.1 and Pumping Station. Concrete works of both components are completed by 98%.
58. The WWS systems were installed to meet the demands of growing population. With the government initiative to develop Ureki as a tourist destination, the water demand is likely to grow significantly as will grow the waste water production. According to government estimates, water Supply and WWTP will meet with 30,000 equivalents of the population (PE), calculated for 2040.
59. The following main environmental issues faced during the construction phase were suggested to monitor by participants under URE-01 project:
 - *Loss of topsoil due to incorrect stripping and storage*
 - *Incorrect Waste Management (Hazardous Waste mixing with non-hazardous waste)*
 - *Incorrect surplus soil management*
 - *Inert waste management*
60. Other issues monitored by the participants included:
 - *Management of occupational health and safety issues*
61. During the site visit detailed presentations were carried out by the contractors on Ure-01 projects.
62. There was an open discussion, many questions asked by the visitors were answered by the project team of USIIP and its environmental specialist.
63. These issues included, but were not limited to: the population equivalent for the project; the effectiveness of existing monitoring and reporting systems; environmental standards used for the project implementation, etc.
64. Visitors were informed about the monitoring and reporting system implemented by UWSCG/IPMO and presented all relevant documents existed at contractors temporary offices such as IEE, SSEMP, non-compliance notes, corrective action plans, compliant log. etc..
65. The following recommendation was suggested to the implementation unit on improvements in the environmental performance:
66. As the contraction activities under URE-01 project is completed major improvements can be concentrated on proper reinstatement activities.

3.3 Non-Compliance Notices

URE-01

67. The contractors were always informed on the detected non-compliances and were demanded to improve on the deadline set and send photos of improvements made together with the corrective action plans. Environmental team of Eptisa and UWSCG monitored the improvements during the next monitoring visits. Unimproved environmental issues were qualified as non-compliances and notices issued to contractor (**Annex C**).
68. 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**.
69. Non-compliance notices have been issued by SC/Eptisa under Ure-01 project in following dates: 24 April, 2018 (See **Annex C**).

3.4 Corrective Action Plans

Corrective Action Plans

70. No corrective action plans have been developed by the contractor under Ure-01 projects within the proposed reporting period. The regular Environmental Meetings were also carried out with the participation of UWSCG/IPMO/DEPRP, Eptisa, contractors. During the meetings environmental issues and implementation of the mitigation measures were discussed. Agreements were reached that contractors should respond to the findings of the compliance monitoring carried out by SC and UWSCG.

Table 7: Actions taken for implementation of mitigation measures under Ure-01 by the end of June 2018.

URE-01

Construction Site	Environmental Issues	Action taken
Ureki/Network	All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place	Completed
	Special warning and information signs should be installed	Completed
	Workers always should use complete set of PPE	Completed
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed
Ureki/Construction Materials Storage Area	Construction equipment should be in good condition	Only Partially Completed
	Site fencing should be complete and with visible materials on it	
	Construction materials should be segregated	(Recommendations to

Construction Site	Environmental Issues	Action taken
	precisely and stored properly	address Environmental Issues are provided in Table 10)
	Site internally should be arranged properly (including signage) and cleaned regularly (animals should not be available at the site)	
	Site gate should be operation at every entrance or exit with relevant signage	
	Waste should be placed at the proper standard waste containers with labeling	
	Containers of lubricants should be managed properly (concrete flooring and relevant roofing)	

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

72. An annual Environmental Compliance Safeguard Review Mission was carried out on 26-28 January 2018 to review environmental safeguards compliance of Tranche 2 project.

3.5 Actions taken to reflect the findings of ADB mission carried out on 26-28 January 2018:

Table 8: Status of Findings of ADB Mission Carried Out on 26-28 January 2018

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
Status of findings of ADB mission carried out on 27-30 January 2018			
Ure-01 Construction of Networks			
	<p>ADB request that the IPMO and the supervision consultants for the USIIP program employ dedicated Health and Safety personnel. These personnel must be additional to existing staff (particularly at IPMO level) to ensure that sufficient capacity is present to cover H&S on this large portfolio of projects.</p> <p>Contractors must start recording all H&S incidents, including near misses and provide these in a regular log to the Supervision Consultants and the PIU.</p>		All construction activities are completed now and there is no need to hire H&S Specialist under Ure-01 sub project.

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
	<u>No other major environmental issues were identified</u>		
Reg-02/Anaklia WWTP			
	Conduct Post-Construction Environmental Audit and prepare Post-Construction Environmental Audit report Under Reg-02/Anaklia sub-project and reflect findings of the report in EMR January-June 2018.	June 2018	Post Construction Audit Report will be submitted in July 2018 and main findings of this report will be presented in the next EMR July-December 2018.

73. Status of implementation of Action Plan of July-December 2017 is presented in **Table 9** below.

Table 9: Status of implementation of action plan of July-December 2017

Specific issues: Recommendations Ure-01	Implementation Status
Conduct regular monitoring of sites in accordance with the EMP/SSEMP requirements	Completed
Carry out environmental quality measurement at the nearest sensitive receptors and at the construction site by the end of March 2018.	Completed in May 2018 Measurement data are reflected in proposed EMR January-June 2018

Conduct Post-Construction Environmental Audit and prepare Post-Construction Environmental Audit report Under Reg-02/Anaklia sub-project and reflect findings of the report in EMR January-June 2018.

The process is started, contract is signed with independent consultant to carry out Post-Construction Environmental Audit and prepare corresponding report. Main findings of above report will be presented in next EMR July-December 2018.

3.6 Consultations and Complaints

Public Awareness Activities

74. During the reporting period Public Awareness activities have been carried out only under Ure-01 project.
75. The door to door campaigns were organized by SC, CC and UWSCG with the effected population to raise their awareness on project, safe water supply, sanitation and other related issues.

Trainings

76. On site environmental safeguard trainings were organized for contractors of URE-01 project on a regular basis, during the site visits. Environmental specialists of the above mentioned contractors are instructed to follow safeguard regulations of ADB/SPS 2009 and SSEMP requirements. The main issues of discussion were the site management and implementation of mitigation measures in accordance with the SSEMPs.
77. It is planned to conduct training for representatives of SC and CC in order to introduce a new manual developed by ADB for monitoring of environmental safeguards implementation within the next reporting period (July-December 2018) as well as new requirements of ADB for the development of Site Environmental Management Plans with further site specific and topic specific EMPs.

Grievance redresses mechanism (GRM)

78. 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**.
79. No complaints have been received under Ure-01 Project during the reporting period.

PART IV – CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD

4.1 Conclusions and recommendations

80. 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.
81. Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMPs and SSEMPs requirements under Ure-01 projects.
82. More detailed recommendations are provided in the **Table 10** below.

Table 10: Recommendations to address Environmental Issues under Ure-01 project

Recommendations URE-01 Ureki - Network	
Workers always should use complete set of PPE	Constructor is instructed to keep the standards
Special warning and information signs should be installed	
Recommendations URE-01 Ureki - Network	
Construction Materials Storage Area	
Construction equipment should be in good condition	Contractor is given strong instruction to improve the situation, develop CAP and send improved photos of site
Site fencing should be complete and with visible materials on it	
Construction materials should be segregated precisely and stored properly	
Site internally should be arranged properly (including signage) and cleaned regularly (animals should not be available at the site)	
Site gate should be operation at every entrance or exit with relevant signage	
Waste should be placed at the proper standard waste containers with labeling	

4.2 Action Plan for the next period

83. Conduct regular monitoring of sites in accordance with the EMP/SSEMP requirements.
84. Reflect findings of Post-Construction Environmental Audit report prepared under Reg-02/Anaklia WWTP sub-project in the EMR July-December 2018.
85. Carry out noise measurement at the nearest sensitive receptors under Ure-01 project by the end of September 2018.

Table 11: The specific plan for environmental measurement (Ure-01) is as follows:

Parameters	Quarterly measurement
Dust	September 2018
Vibration	September 2018

carbon monoxide	September 2018
nitrogen dioxide	September 2018
sulfur dioxide	September 2018
Noise	September 2018

ANNEXES:

ANNEX A: MEASUREMENT DATA (URE-01 PROJECTS)

Concentration of harmful substances in atmospheric
Ltd "Ferf" 12-14 June 2018

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
Tevermagala X 0731266 Y 4649719	1	40,2	0	0,25	0,001	0,001	<0,1	<0,1
	2	40,8	0	0,30	0,001	0,001	<0,1	<0,1
	3	40,3	0	0,27	0,001	0,003	<0,1	<0,1
	4	40,5	0	0,32	0,001	0,002	<0,1	<0,1
Stekvetili X0729754 Y4644722	1	50,6	<1	1,15	0,003	0,005	<0,1	<0,1
	2	51,4	<1	1,28	0,002	0,007	<0,1	<0,1
X0729551 Y4646280	3	50,8	<1	1,38	0,003	0,006	<0,1	<0,1
	4	51,9	<1	1,52	0,002	0,008	<0,1	<0,1
Pumping station X0730383 Y4649261	1	42,1	0	0,16	0,001	0,004	<0,1	<0,1
	2	43,0	<1	0,81	0,008	0,017	<0,1	<0,1
	3	43,3	<1	0,62	0,003	0,018	<0,1	<0,1
	4	42,2	0	0,31	0,001	0,002	<0,1	<0,1
Natanebi X 0738151 Y 4643222	1	40,0	0	0,17	<0,001	0,011	<0,1	<0,1
	2	42,3	<1	0,20	0,007	0,010	<0,1	<0,1
X07235311 Y4643927	3	41,7	<1	0,22	0,006	0,014	<0,1	<0,1
	4	40,2	0	0,17	<0,001	0,019	<0,1	<0,1

Executors:
Main specialist
Main specialist
Specialist

Agreed:
Head Environmental Pollution
Monitoring Department

 O. Kenia
S. katsava
G. Morguelin
M. Arabidze

ინფორმაცია
ატმოსფერულ ჰაერში დამაზიანებელ ინგრედიენტთა კონცენტრაციის შესახებ
მშპ „ეფრო“ 12-13 ივნისი 2018წ.

სიწვლის ადგილის ადგილი, კოორდინატები	სამუშაო	ხმალი	კონცენტრაცია მკ/მ ³					ფორმალდეჰიდი	ფორმალდეჰიდი
			ნავერი ნახშირწყალბადები	სხშირზადის ოქსიდი CO	აზოტის დიოქსიდი NO ₂	მტვერი	სუფირის დიოქსიდი SO ₂		
წვერმალა რეზერვუარი X 0731266 Y 4649719	1	40,2	0	0,25	0,001	0,001	<0,1	<0,1	
	2	40,8	0	0,30	0,001	0,001	<0,1	<0,1	
	3	40,3	0	0,27	0,001	0,003	<0,1	<0,1	
	4	40,5	0	0,32	0,001	0,002	<0,1	<0,1	
შეველილი X0729754 Y4644722	1	50,6	<1	1,15	0,003	0,005	<0,1	<0,1	
	2	51,4	<1	1,28	0,002	0,007	<0,1	<0,1	
X0729551 Y4646280	3	50,8	<1	1,38	0,003	0,006	<0,1	<0,1	
	4	51,9	<1	1,52	0,002	0,008	<0,1	<0,1	
სანახილე X0730383 Y4649261	1	42,1	0	0,16	0,001	0,004	<0,1	<0,1	
	2	43,0	<1	0,81	0,008	0,017	<0,1	<0,1	
	3	43,3	<1	0,62	0,003	0,018	<0,1	<0,1	
	4	42,2	0	0,31	0,001	0,002	<0,1	<0,1	
ნატანები X 0733131 Y 4643222	1	40,0	0	0,17	<0,001	0,011	<0,1	<0,1	
	2	42,3	<1	0,20	0,007	0,010	<0,1	<0,1	
X07233311 Y4643927	3	41,7	<1	0,22	0,006	0,014	<0,1	<0,1	
	4	40,2	0	0,17	<0,001	0,019	<0,1	<0,1	

შესრულებულია:

ზოგადი სპეციალისტი

ზოგადი სპეციალისტი

სპეციალისტი

შეთანხმებულია:

გარემოს დამაზიანებლის მონიტორინგის დეპარტამენტის უფროსი



ქეთევან
ს.ხაჯაძე
გამორეგულია

მ. არაბიძე

ANNEX B: PHOTOS OF SITES

Ure-01 Project Sites:

Pumping Station



Reservoir



Reg-02, Anaklia WWTP Sub-project



ANNEX C: Non-Compliance Notice

Non-Compliance Notice:

Ure-01 – Network

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-01	
Contractor: PERI	
Reference: UREKI – Network	
This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented urgently .	
NON-COMPLIANCE IN UREKI	
<ul style="list-style-type: none">- All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place- Special warning and information signs should be installed- There should be separate waste containers for municipal and hazardous waste at the site with signatures, placed at special designated area with roofing and concrete base- Workers always should use complete set of PPE- Trees (nearby territory) should be freed from pipes to avoid its damage	

All these conditions have to be remedied within ten days (by the 4 May 2018) by the prime Contractor (Peri).	
Date of site visits: 17.04-18.04.2018	
Irakli Legashvili EPTISA – Environment Kate Chomakhidze Environmental Specialist – USIIP UWSCG Maka Goderdzishvili Head of Environmental Department - UWSCG	

Ure-01 - CAMP

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-01	
Contractor: PERI	
Reference: UREKI – Camp	
<p>This notice is to advise you, the prime Contractor, on the referenced Contract, of the following notice on environmental measures to be implemented urgently.</p> <p><u>NON-COMPLIANCE IN UREKI</u></p> <ul style="list-style-type: none"> - Construction equipment should be in good condition (non leakage) - Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site - Construction waste (wooden, metal, plastic, etc.) should be removed from construction area completely and timely - Site gate should be operation at every entrance or exit with relevant signage - Site fencing should be complete and with visible materials on it - Oil spillage traces should not be available at the site - Waste should be placed at the proper standard waste containers with labeling - Containers of lubricants should be managed properly (concrete flooring and relevant roofing) - Construction materials should be segregated precisely and stored properly - Site internally should be arranged properly (including signage) and cleaned regularly (animals should not be available at the site) 	



All these conditions have to be remedied within ten days (by the 4 May 2018) by the prime Contractor (Peri).	
Date of site visits: 17.04-18.04.2018	
Irakli Legashvili EPTISA – Environment Kate Chomakhidze Environmental Specialist – USIIP UWSCG Maka Goderdzishvili Head of Environmental Department - UWSCG	

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

Reference	Requirement	Action to date	Action required/comment
Ure-01: Network			
	All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place	Completed	No additional actions are required
	Special warning and information signs should be installed	Completed	
	There should be separate waste containers for municipal and hazardous waste at the site with signatures, placed at special designated area with roofing and concrete base	Completed	
	Workers always should use complete set of PPE	Completed	
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed	
Ure-01 Construction Materials Storage Area			
	Construction materials should be segregated precisely and stored properly	Partially Completed	Contractor to developed Corrective Action Plan and improved the situation within the proposed deadlines, site improvements with relevant photos will be presented in EMR July-December 2018.
	Site internally should be arranged properly (including signage) and cleaned regularly (animals should not be available at the site)	Partially Completed	
	Site gate should be	Partially	

Reference	Requirement	Action to date	Action required/comment
	operation at every entrance or exit with relevant signage	Completed	
	Waste should be placed at the proper standard waste containers with labeling	Partially Completed	
	Containers of lubricants should be managed properly (concrete flooring and relevant roofing)	Partially Completed	
	Construction equipment should be in good condition	Partially Completed	
	Site fencing should be complete and with visible materials on it	Partially completed	
	Construction materials should be segregated precisely and stored properly	Partially completed	
	Site internally should be arranged properly (including signage) and cleaned regularly (animals should not be available at the site)	Partially completed	

ANNEX E: GRIEVANCE REDRESS MECHANISM

GRM System

86. There was no GRM system existing under USIIP before the Reg-01 project. Therefore, there was no structured mechanism and procedure to help the affected population and stakeholders send their grievances related to project-induced environmental impacts and nuisances to UWSCG or directly to the administrative bodies responsible for environmental protection.
87. 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.
88. 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.
89. 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.
90. The service centre operators, who are trained² in USIIP/Reg-01 project, 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 system³ 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 Department of Environmental Protection, Resettlement and Construction Permit, Maka Goderdzishvili.
91. 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.
92. 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:

² 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.

³The **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 eDocumentservice offers an opportunity to manage, find, and track documents for information-intensive organizations.

- Name, ID, address and contact details of the claimant
 - Description of the essence of the complaint
 - 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
- 93.** 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.
- 94.** 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.
- 95.** 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*
 - *6 ADB Avenue, Mandaluyong City 1550, Philippines*
 - *Email: amcro@adb.org, Fax +63-2-636-2086*

ANNEX F: Weekly Environmental Monitoring Forms

Ure-01



ყოველკვირეული გარემოსდაცვითი მონიტორინგი

თარიღი/Date: 12.02.2018

Weekly Environmental Monitoring

კონტრაქტის #/შპს ფერი Contract#: _____		ზედამხედველი: Eptisa Supervisor: Eptisa				
პროექტი/ობიექტი: URE-1 rezervuari Project/Site: _____		კონტრაქტორი: Contractor: შპს ფერი				
N		კი/ yes	არა /no	წაწილ თხრივ/ Partially	არცა ნა/ნ. A	შენიშვნა/Comment
1	სამშენებლო ტერიტორიის სრულიად შემოღობვა. Adequate fencing of construction area from all sides	კი				
2	საკეტის შესასვლელი გარისმოწყობა, სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნებით აღჭურვა Arrangement of lockable gate with standard warning and information signs			კი		
3	სამშენებლო ტერიტორიაზე და პერიმეტრზე სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნების განთავსება. Placement of standard warning and information signs at the perimeter and inside of construction area	კი				
4	ღია დატოვებულ თხრილებზე და კვებზე უსაფრთხოების ღერტების, ბარიერების და გამაფრთხილებელი ნიშნების განთავსება Installation of safety signs/tapes and trench side barriers around of open trenches	კი				
5	1,5 მეტრზე მეტი სიღრმის ტრანშებში კედლების გამაგრება. Strengthening of walls of the deep trenches (>1.5m) by boards	კი				
6	დასახლებულ ადგილებში ღია დატოვებულ თხრილებზე ედროებითი გადასასვლელების მოწყობა. Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas				არ ეხება	
7	სამშენებლო ტერიტორიაზე, სამუშაოების ზონაში არსებული ხეების შემორაცვა (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage				არ ეხება	
8	ექსპლევიის დროს, წიადაგის წაყოფიერი (დაახლოებით 20-30 სმ სისისის) ფენის მოხზა და განვალკვევლად დაგროვება, შენახვა. Removal of top soil (about 30 cm depth) and separately storing in appropriate place				არ ეხება	
9	სამშენებლო ნარჩენების და ჰიარბი ნარჩენი გრუნტის დროული გატანა/განთავსება. Timely removal/disposal of construction waste and surplus waste soil	კი				
10	სამშენებლო ტერიტორიის ღამის საათებში განათება. Provide adequate lighting of construction territory	კი				

11	სამშენებლო ტერიტორიის შესაბამისად მოწყობა, მასალების, მოწყობილობების და დანადგარების ორგანიზებულად განთავსება. (საჭიროებიდან გამომდინარე) Proper arrangement of construction site and segregation/storing of construction materials/equipment (bring the material when required)	კი			
12	სამშენებლო ტერიტორიაზე საწვავის და საპოხი მასალების დადრის შედეგების სალოკვიდაციო ნაკრების (ქვიშა, ნახერხი, მცირე ზომის ავზი და სხვა) ხელმისაწვდომლობა. Availability of proper fuel/oil spill response items (sand, sawdust, special containers) at the construction site		არა		
13	საწვავის და საპოხი მასალების კონტეინერების განთავსება მხოლოდ სპეციალურ გადახურულ ადგილებში. Allocation of fuel and lubricants containers at the special dedicated place (with roofing and concrete flooring)				არ ეხება
14	სამშენებლო ტერიტორიაზე საყოფაცხოვრებო ნარჩენებისთვის თავსახურიანი კონტეინერის განთავსება და შესაბამისი წარწერებით აღჭურვა (მაგ. "HOUSEHOLD WASTE") Placement of proper Household Waste container at the special dedicated place with relevant indication signs (for example "Household Waste")	კი			
15	სამშენებლო ტერიტორიაზე სახიფათო ნარჩენებისთვის თავსახურიანი კონტეინერის განთავსება და შესაბამისი წარწერებით აღჭურვა. (მაგ. "HAZARDOUS WASTE") Placement of proper Hazardous Waste container at the special dedicated places with relevant indication signs (for example "Hazardous Waste")	კი			
16	სამშენებლო ტერიტორიაზე ან მის გარეთ ტრანსპორტისთვის პარკირების ადგილის მოწყობა და ნიშნით აღჭურვა (მაგ. P) Arrangement of proper Parking area at the adequate place inside/outside of construction territory with relevant sign (for example P)	კი			
17	სამშენებლო მასალების და ნარჩენების ტრანსპორტირების დროს ავტო ტრანსპორტის სპეციალური საფარით (ზრუნველყოფით, ტენტითდასხვა) აღჭურვა Use tarpaulins cover during materials transportation		კი		
18	საჭიროებიდან გამომდინარე მტვრის წარმოქმნის პრევენცია. Dust generation prevention activities (when needed)	კი			
19	მუშების და ინჟინერ-ტექნიკური პერსონალის მიერ ინდივიდუალური დაცვის საშუალებების (ჩაფხუტი, ვილუტი, ხელთათმანი, ჩექმები, დამცავისათვალე, დასხვა) სრულადგამოყენება. Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks, safety belts	კი			
20	სიმაღლეზე მუშაობის დროს სპეციალური დამცავი აღჭურვილობის გამოყენება. Use of special safety equipment during working at heights	კი			
21	სამშენებლო ტერიტორიის მუდმივად დალაგება და დასუფთავება. Regularly cleaning of construction territory	კი			

ობიექტის გარემოსდაცვაზე პასუხისმგებელი პირი (კონტრაქტორი)/Staff responsible for environment/safety at the site (contractor)	სახელი: Name: თენგიზ მაღლაფერიძე	ხელმოწერა/ Signature:
მშენებლობის ინსპექტორი (ზედამხედველი)/Construction site Inspector (SC/Engineer)	სახელი: ნუგზარ ზაღერაძე Name	ხელმოწერა/ Signature: <i>ნ. ზაღერაძე</i>
გარემოსდაცვის სპეციალისტი (კონტრაქტორი)/Environmental Specialist (contractor)	სახელი: Name:	ხელმოწერა/ Signature:

შენიშვნა/Comment:

შესაბამისი ფოტომასალა/Photo Material

