

BI-ANNUAL ENVIRONMENTAL MONITORING REPORT

Project Number: 43405-023

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Loan Number 3078-GEO (SF)

**GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM
(TRANCHE 3)**

(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
MTFF	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

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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 July-December 2017 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. Tranche 3 of the Investment Program includes:
 - Construction of Water Supply and Wastewater Network in Ureki/Phase 3 (URE-01);
 - Construction of Wastewater Treatment Plant in Ureki (URE-02);
 - Construction and Rehabilitation of Water Supply System in Kutaisi/Phase 2 (KUT-01)
 - Construction of New Transmission Pipeline in Abasha (Aba-01)

The following projects are financed under Tranche 3:

5. **¹Construction of Water Supply and Wastewater Network in Ureki/Phase 3 (URE-01)**. The project comprises of the construction of 1 water supply pumping station and 31 sewage pumping stations (Shekvetili - 18, Ureki - 13; construction of new reservoirs (2,000 m³ x 3,000 m³ and 1 x 1,200 m³); Distribution network - laying of approximately 70 km water supply pipelines (distribution network will be divided into 3 areas), laying of approximately 70 km sewage pipelines; installation of approximately 1,500 water meters; Wells - drilling of 10 drinking water wells.
6. **Construction of Wastewater Treatment Plant in Ureki (URE-02)**. The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 6,570 m³/day.

¹ T1-T3 BAEMRs may have some overlap, due to the financing arrangements of Ure-01 project, which is simultaneously financed by T1,T2 and T3.

- 7. Construction and Rehabilitation of Water Supply System in Kutaisi/Phase 2 (KUT-01).** The project envisages construction of Kvitiri 973 m³/h capacity and Mukhrani 660 m³/h capacity pumping stations; Reservoirs - construction of Near East and Mukhrani reservoirs with the capacity of 9,000 m³ (2x4,000+1,000). Distribution network - 332.1 km.
- 8. Construction of New Transmission Line in Abasha (Aba-01).** Within the Aba-01 project the following major works will be carried out: approximately 15 km long 500 mm diameter transmission pipeline will be installed from headworks to the town of Abasha, chlorination building will be constructed and the water meter will be installed at the headwork.

B. Construction activities implemented during the reporting period (July-December 2017)

Table 1: Project progress during the previous 6 months

KUT-01

Site	Pipe Diameter (mm)	Installed
Pipes, Concrete Surface, Superstructure Works undertaken during Jan-June 2017	PE 100-pipes OD 50	14.51%
	PE 100-pipes OD 63	41.33%
	PE 100-pipes OD 75	28.74%
	PE 100-pipes OD 90	52.87%
	PE 100-pipes OD 110	29.20%
	PE 100-pipes OD 125	67.27%
	PE 100-pipes OD 140	40.79%
	PE 100-pipes OD 160	58.23%
	PE 100-pipes OD 180	10.27%
	PE 100-pipes OD 200	9.98%
	PE 100-pipes OD 225	24.56%
	PE 100-pipes OD 250	75.10%
	PE 100-pipes OD 280	13.57%
	PE 100-pipes OD 315	79.48%
	PE 100-pipes OD 355	78.60%
	PE 100-pipes OD 400	49.14%
	Concrete Surface	4%

URE-02

Site	Effluent Pipe
Works undertaken during Jan-June 2017	Effluent collector – 100%
	Construction of WWTP – 96%

URE-01

URE-01	Water Mains Installation
Works undertaken during July-December 2017	22.239 km of PE 100 pipes OD 710, SDR 11 installed – 99%
Site	Water network
Works undertaken during July-December 2017	43.25 km of HDPE pipes DN 25-560 – 86%
Site	Sewerage network
Works undertaken during July-December 2017	59.664 km of PE 100 and corrugated pipes OD 110-500 mm, SDR 11 installed – 85%
Site	Construction of Reservoir #1
Works undertaken during July-December 2017	Excavation Works – 100% Drainage Installation Works – 80% Reinforced Concrete Works – 95%
Site	Well Field
Works undertaken during July-December 2017	Drilling Works – 100%
Site	WS Pumping Station
Works undertaken during July-December 2017	Construction Works – 100%
Site	Sewer PE Pumping Station
Works undertaken during July-December 2017	Installation Works – 80%

1.2 Changes in Project Organization and Environmental Management Team

Agencies Involved in Investment Program Implementation

9. 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.
10. 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. Investment Program Management Office (IPMO) under UWSCG is an International Procurement and Donors Relations Department. A new Department of Environmental Protection, Resettlement and Construction Permit (DEPRP) was established under UWSCG as well. DEPRP replaced the existing Unit of Resettlement and Environmental Protection (UREP). DEPRP include Unit of Construction Permission and consist of six staff members.
11. 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.

12. All mitigation measures during construction have to be implemented by the contractor and these are monitored by the Supervision Consultant. To ensure the smooth implementation of EMPs and SSEMPs 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.
13. 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 Solid Waste Disposal Plan and agreed the MoENRP and Local Government.
14. DC is responsible for developing and incorporation of mitigation measures in design and construction.
15. 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 EMP/SSEMPs and in training and capacity-building activities. The ES prepares bi-annual and annual environmental monitoring reports and submits to ADB.
16. 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 3 specialists, those are responsible for resettlement, environmental protection and construction permission issues.
17. 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

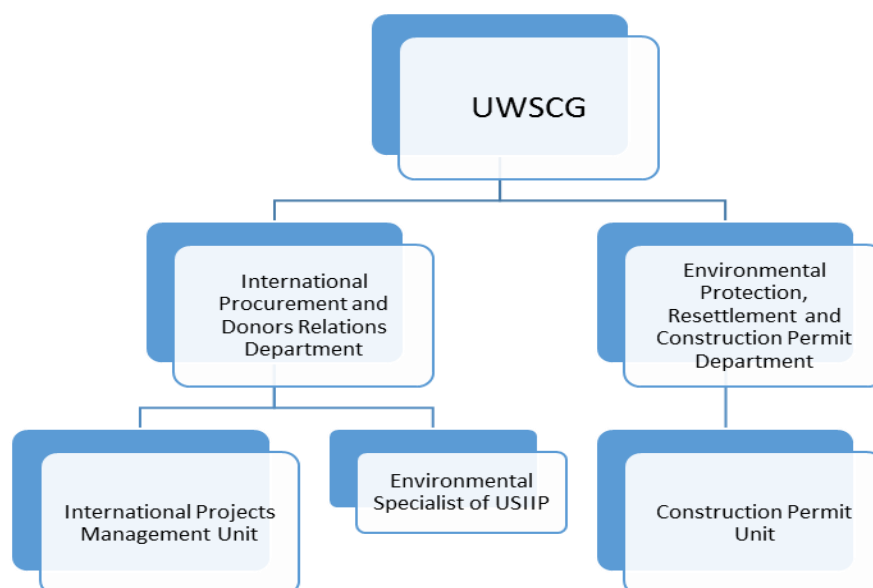
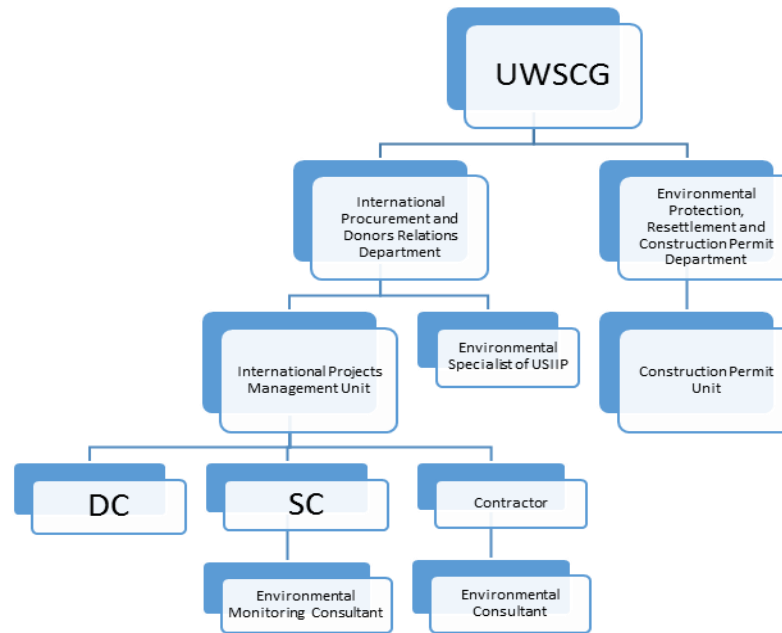


Figure 2: Structure Diagram of the Agencies Involved in Investment Program Implementation



1.3 Relationships with Contractors, Owner, Lender, etc

18. Relationships with Contractors, 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.
19. Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for oversee progress and provide guidance on the investment program implementation; convene regular meetings in consultation with the SC Chairperson and UWSCG; ensure compliance with investment program covenants.
20. 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.
21. The team has constant communication with the Supervision Consultant, Contractor, reviews/ comments all environmental reports submitted by DC, SC and contractors.
22. All SSEMPs are prepared by Contractor, endorsed by SC and approved by UWSCG/DEPRP.
23. SC is responsible for environmental capacity building, monitoring of implementation of SSEMPs and for developing quarterly reports. The Contractor has a full time Environmental Specialist who carries out day to day monitoring as submits a monthly progress reports.
24. ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.
25. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/DEPRP, Eptisa,

Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.

26. A Grievance Redress Committee has been established within REG-01 in Kutaisi that will functional for KUT-01 project as well. GRM was established for URE-01 and URE-02 projects within the July-December 2016.
27. Contractor of KUT-01 project operated during the reporting period with the following sub-contractor:
- LLC “VPC”
 - LLC “Gazmsheni XXI”
 - LLC “HESPİA-MURI”
 - LLC “LAZI”
 - LTD “PROEKTORI”
 - LLC “BORING TECHNOLOGY”
 - LTD “DAGI and COMPANY”
 - LTD “Global-Building”
 - LLC “INTERPROJECT”
28. Below are the list of permits and subcontractors of “SMK Ulusal Insaat Ve Ticaret A.S. (Turkey)”under the Kut-01project
- Kutaisi Municipality – contract was signed for disposal of Municipal Waste from project sites to the Kutaisi landfill
 - Permit issued to SMK by the Ministry of Environment and Natural Resources Protection of Georgia (Decree #i-902) – on Construction and Exploitation of the Asphalt plant
 - License issued to SMK by the National Environmental Agency of the MoENRP – for mineral extraction (gravel, ballast)
29. Below are the list of sub-contractors 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”
 - Ltd “Sanitari” – contract was signed for disposal of hazardous waste
30. Below are the list of sub-contractors of Pfeiffer (Ure-02 project) for Disposal of Municipal Waste and extraction of minerals (gravel, ballast, etc)
- Ozurgeti Municipality - contract was signed for disposal of Municipal Waste from Ureki WWTP site to the Ozurgeti landfill
 - Ltd “Sanitari” – contract was signed for disposal of hazardous waste
 - Georgian Solid Waste management Company for disposal of Solid Waste.
31. Project organization for the awarded contracts listed above is given in the table below:

Table 2: List of contracts under T3 – Kut-01, Ure-01, Ure-02 and Aba-01

Contract #	Sub-project Title	Employer	Contractor	Contract Signature date	Contract Final Date
Contract No: P43405- ICB-KUT-01	Kut-01	UWSCG	SMK Ulusal Insaat Ve Ticaret A.S. (Turkey)	22-Apr-15	8-Jun-18

Contract #	Sub-project Title	Employer	Contractor	Contract Signature date	Contract Final Date
Contract No: P43405-ICB- URE-02	Ure-02	UWSCG	JV of Ludwig Pfeiffer Hoch-und Tiefbau GmbH and Co.KG ProtechnoSrl (Germany) / Aritim (Turkey)	30-Apr-15	9-Jun-17
Contract No: P43405-ICB- URE-01	Ure-01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)	28-Oct-14	22-Nov-17
Contract No: P43405-DC- ABA-01	Aba-01	UWSCG	AS Inshaat-N, LLC (Azerbaijan)	13-Oct-17	13-Oct-18

PART II - ENVIRONMENTAL MONITORING

- 32.** Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of DEPRP under USIIP on a regular basis, during the period July-December 2017. Unscheduled monitoring visits were carried out and non-compliance notes has been issued to the contractor as needed. Mitigation measures to reduce major environmental impacts have been instructed to contractors during the monitoring visits.
- 33.** The monitoring activities included:
- The monitoring of compliance of construction activities under KUT-01 project sites to the overall project EMP/SSEMPs;
 - The monitoring of compliance of construction activities under the URE-01 project sites to the overall project EMP/SSEMPs;
 - The monitoring of compliance of construction activities under the URE-02 project sites to the overall project EMP/SSEMPs
- 34.** No Construction activities have been carried out for ABA-01 project as yet.
- 35.** Environmental Monitoring Specialist hired by contractor under the KUT-01, URE-01 and URE-02 subprojects conducted the day-to-day monitoring of the construction sites, developed the weekly monitoring reports (see Annex F, Sample WMR of contractors) and submitted to SC/Eptisa.
- 36.** Environmental Monitoring Specialist of SC/Eptisa developed quarterly monitoring reports for UWSCG/ DEPRP based on the weekly reports submitted by Contractor and based on environmental site inspection.
- 37.** Environmental Specialist of USIIP performed monitoring of contractor's performance with the approved EMPs/SSEMPs, environmental standards and other environmental commitments of the contractor. ES of USIIP developed bi-annual environmental monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.

38. 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 soil
 - Removal of vegetation
 - Backfilling of trenches
 - Reinstatement activities
39. 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 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. Kut-01, Ure-01 and Ure-02 are reported in this EMR.

Table 3: Parametric Measurement Guidelines

Parameters	Frequency & Location	Remarks
Kut-01		
Air Quality	Every 3 months Mukhnari Reservoir, 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 Mukhnari Reservoir, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Impact on Flora and Fauna	Monthly during the site Inspection and audit	Avoid tree cutting In unavoidable cases, plant four trees of same species for each tree that is cut for construction
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

Parameters	Frequency & Location	Remarks
		archaeological authority if a find is suspected, and taking any action they require to ensure its removal or protection.
Ure-01		
Air Quality	Every 3 months Reservoir #1, Pumping Station, Well Fields, 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, Well Fields, Networks, Transmission Main	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Impact on Flora and Fauna	Monthly during the site monitoring.	Avoid tree cutting In unavoidable cases, plant four trees of same species for each tree that is cut for construction
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.
Ure-02		
Air Quality	Every 3 months WWTP Site, Nearest Residential House	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 ;

Parameters	Frequency & Location	Remarks
		SO2 Mg/m3
Noise	Every 3 months WWTP Site, Nearest Residential House	Ensure that all equipment & vehicles used for construction activity are in good condition Limiting working hours to 8 am – 6 pm
Impact on Flora and Fauna	Monthly during the site monitoring.	Avoid tree cutting In unavoidable cases, plant four trees of same species for each tree that is cut for construction
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.

40. 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.

Changes in Design within the Framework of Kut-01 project in July 2017

41. During the implementation of Construction Works for water supply system rehabilitation in Kutaisi, it was envisaged to lay d=500 cast iron pipes in River Rioni with special equipment (and itself in casing pipe).
42. In this regard, Contractor “SMK Ulusal Insaat ve Ticaret A.S” with the support of UWSCG addressed to the Ministry of Environment and Natural Resources Protection of Georgia in writing, if there were need of necessary agreements on this issue.
43. Based on the letter of the Ministry, requested the general washout of the river depth at the given site, Geophysical and Engineering Geological Survey was conducted at Rioni crossing. Based on this geological survey (exposure of rocky material), also possibility of damage in PE pipes during construction and to simplify the further operation of the network, construction changes have been made to the project design and it was decided to cross the mentioned section of the river by Aqueduct in August 2017.
44. To ensure implementation of the construction works for Kut-01 project in accordance with the ADB safeguards policy requirements a field survey of Rioni River biodiversity, as well as analysis of existing literary sources was carried out in October 2017 and

the Initial Environmental Examination was updated based on this survey sent to ADB (13 November, 2017).

45. Ichthyologic studies has been conducted by the Ichthyologic team of “Gamma Consulting” Ltd.

D. Monitoring Measurement Data

46. Environmental monitoring of dust, air condition, noise and vibration under Kut-01, Ure-02 and Ure-01 projects are performed as indicated in the relevant EMPs/SSEMPs (on the bi-annual basis).
47. The parameters measured for the monitoring data at the construction sites are as follows: dust, carbon monoxide, nitrogen dioxide, sulfur dioxide, vibration and noise.
48. Noise impacts should not exceed the levels presented in Table 4, in accordance with Georgian regulations - Decree No. 297/N “On Approval of Environmental Quality Norms” (August 16, 2001 of the Ministry of Labor, Health and Social Affairs) and World Health Organization (WHO) 1999, or result in a maximum increase in background levels of 3 dB at the nearest receptor location off-site.

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

49. Location and data of measured parameters are provided in Annex A. The next monitoring measurements will be conducted in March 2018 and results will be reflected in the next EMRs of January-June 2018 as it defines in EMP/SSEMPs.

In order to conduct measurements under the Kut-01 project, contract was signed between the Contractor and the Ltd “Eco-Spectri”. All above mentioned measurements were carried out in December 2017 at various construction sites and nearest sensitive receptors in Kutaisi (See Table 5 (A) and Annex A). According to data received in December 2017 the obtained results exceed the National Environmental Standard (Maximum Permissible Level) of Noise only in Godogani, but since there is no sensitive receptors near the construction area no further mitigation is required.

50. In the future, during the next reporting period (January-June 2018) environmental measurements will be carried out at the nearest sensitive receptors as well at the construction site and if the noise level will exceed the noise standards provided in Table 4 and works will be carried out for a long period, additional mitigation measures will be provided.
51. All measurements were carried out at construction sites, were temporary and conducted during the daytime from 14:00 pm to 16:00pm. The reason for sampling during this period was that no construction activities occurred outside daylight hours. No complaints were received from the local population about the noise during the reporting period.

Table 5: Monitoring measurements under KUT-01 (A)

Plaice of measurement	Dust Mg/m ³		CO Mg/m ³		No ₂ Mg/m ³		SO ₂ Mg/m ³		Noise Db Daytime 07:00-22:00		Radiation mR/h		Vibro - accelevation m/sek	
	standard	result	standard	result	standard	result	standard	result	standard	result	standard	result	standard	result
Reservoir at Godogani 42014i06.07ii N 42042i25.89ii E	0.5	PM ₁₀ - 0.21 PM _{2.5} - 0.33	5.0	1.1	0.2	0.01	0.5	≥ 0.1	55 70	57.6	30	9	4.0	3.3
Tsereteli street 42016i06.65ii N 42042i14.84ii E (Industrial; commercial)		PM ₁₀ - 0.06 PM _{2.5} - 0,09		1.2		0.04		≥ 0.1		55.3		11		2.1
Kolkheti street 42015i40.76ii N 42041i4s2.04ii E (Industrial; commercial)		PM ₁₀ - 0.12 PM _{2.5} - 0, 20		2.1		0.02		≥ 0.1		69.1		10		2.1
Ninoshvili Street 42015i37.85ii N 42040i23.35ii E (Industrial; commercial)		PM ₁₀ - 0.22 PM _{2.5} - 0.27		2.6		0.02		≥ 0.1		64.4		8		2.3
Mikeladze-mevele street 42016i29.11ii N 42041i15.76ii E (Industrial; commercial)		PM ₁₀ - 0.21 PM _{2.5} - 0.26		3.1		0.01		≥ 0.1		69.0		10		2.4
Solomon I street 42016i29.11ii N 42041i15.76ii E (Industrial; commercial)		PM ₁₀ - 0.38 PM _{2.5} - 0.32		2.4		0.02		≥ 0.1		65.0		11		2.8

52. Monitoring measurements under Ure-02 projects were conducted by the National Environmental Agency under the MoENRP. Measurements were carried out in December 2017 at WWTP construction sites in Ureki. According to data received in December 2017 (See Table 5 (B) and Annex A) the obtained results exceed the National Environmental Standard (Maximum Permissible Level) of Noise, but as the major construction works are completed no additional mitigation measures are required. All measurements were carried out during the day time 13:00pm-15:00pm.

Table 5: Monitoring measurements under URE-02 (B)

N	Place of measurement	Coordinates	Results				
			Dusts Mg/m3	CO Mg/m3	NO2 Mg/m3	SO2 Mg/m3	Noise Db - Daytime 07:00-22:00
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	55
1.	Ureki, WWTP construction site	X 0730237 Y 4650518	0.015	0.24	0,001	<0,1	62.2

53. Monitoring measurements under Ure-01 were conducted by the National Environmental Agency under the MoENRP. The monitoring measurements were carried out in various construction sites in December 2017 (See Table 5 (C) and Annex A). Location and data are included in the table below. The next monitoring measurements will be conducted in March 2018 and results will be reflected in the next January-June EMR 2018. According to data received in December 2017 the obtained results slightly exceed the National Environmental Standard (Maximum Permissible Level) of Noise only in Tsvermagala reservoir, but since there is no sensitive receptors near the construction area no further mitigation is required. All measurements were carried out during the day time 13:00pm-15:00pm. The reason for sampling during this period was that no construction activities occurred outside daylight hours.

Table 5: Monitoring measurements under URE-01 (C)

N	Place of measurement	Samples #	Results				
			Dusts Mg/m3	CO Mg/m3	NO2 Mg/m3	SO2 Mg/m3	Noise Db - Daytime 07:00 - 22:00 Residential; institutional; educational
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	55

N	Place of measurement	Samples #	Results				
			Dusts Mg/m3	CO Mg/m3	NO2 Mg/m3	SO2 Mg/m3	Noise Db - Daytime 07:00 - 22:00 Residential; institutional; educational
1	Village Meria	1	0.001	0.32	<0,001	<0,1	40.3
		2	0.004	0.61	<0,001	<0,1	40.8
		3	0.002	0.52	0,001	<0,1	41.1
		4	0.002	0.42	0,001	<0,1	40.5
2	Ureki near the River Sepa	1	0.002	0.15	<0,001	<0,1	40.3
		2	0.004	0.18	0,001	<0,1	43.4
		3	0.012	0.85	0,001	<0,1	42.0
		4	0.013	0.97	0,001	<0,1	40.9
3	Ureki "Magnito" Industrial, Commercial	1	0.004	0.16	0,007	<0,1	62.3
		2	0.015	2.62	0,006	<0,1	64.9
		3	0.015	2.73	0,005	<0,1	64.3
		4	0.011	1.11	0,006	<0,1	55.1
4	Tsvermagala Reservoir#1 X 0731286 Y 4643708	1	0.001	0.14	<0,001	<0,1	54.3
		2	0.004	0.13	<0,001	<0,1	57.2
		3	0.001	0.12	<0,001	<0,1	56.2
		4	0.001	0.04	<0,001	<0,1	55.1

PART III - ENVIRONMENTAL MANAGEMENT

3.1 The Environmental Management System, Site-Specific Environmental Management Plan (SSEMP) and Waste Management Plans (July-December 2017)

54. All SSEMPs under Kut-01, Ure-01 and Ure-02 projects were prepared by Contractor, endorsed by SC and approved by UWSCG and reviewed/commented by the RETA Regional Environmental Consultant of ADB under RETA 8663 - Ms. Ketii Dgebuadze.
55. Status of Environmental Management Plans and SSEMPs prepared within the previous reporting periods are summarized in the table below:

Table 6: Status of Environmental management plans

Management Plan	Status	Date of Submission
Waste management plan for construction phase Under Ure-01 project	Submitted	By end of December 2016
Environmental Management Plan/Site-Specific EMP (SSEMP) under Ure-01 project Rez-01	Submitted, and approved by UWSCG	SSEMP for Ureki WWTP was prepared in November 2016
Waste management plan for construction phase Under Ure-02 project	Submitted	By end of December 2016
Waste management plan for construction phase Under Kut-01 project	Submitted	By end of December 2016
Environmental Management Plan/Site-Specific EMP (SSEMP) under Kut-01 project Godogani Reservoir	Submitted	SSEMP for Godogani Reservoir was prepared and approved in August 2016

3.2 Site Inspections and Audit

56. Regular site monitoring visits were carried out during the reporting period by the Supervision Consultant Eptisa, and Environmental Specialist of UWSCG/USIIP for Ure-01, Ure-02 and Kut-01 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 Kut-01, Ure-02 and 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 standards were therefore enforced in accordance with the Contractor's contract for Kut-01, Ure-02 and Ure-01 projects.

1. Site inspection monitoring and audit during the reporting period have been carried out on: 11 July 2017; 27-28 July 2017; 9-10 August 2017; 22 September 2017; 28-30 September 2017; 1-2 October 2017 and 8-10 November 2017. The schedule of conducted monitoring and audit during the reporting period is presented in the Table 7 below.

Table 7: The Schedule of Conducted Audits and Monitoring during the Reporting Period

#	Ure-01, Jut-01 and Ure-02 projects	Organization	Date
1	Day-to-Day Site Inspection	Environmental Specialists of Contractors under Ure-01 and Reg-02 projects	1 July – 30 December 2017
2	Site Monitoring and Inspection	Environmental specialist of USIIP and Environmental specialist of Eptisa	11 July 2017
3	Site Monitoring	Environmental specialist of Eptisa	27-28 July 2017

#	Ure-01, Jut-01 and Ure-02 projects	Organization	Date
4	Site Monitoring	Environmental specialist of Eptisa	9-10 August 2017
5	Site Monitoring	Environmental specialist of Eptisa	22 September 2017
6	Site Audit	Environmental specialist of USIIP environmental specialists of Eptisa and International-Regional Environmental Safeguards Consultant Ms. Ketii Dgebuadze	28-30 September 2017
7	Site Audit	Environmental specialist of USIIP environmental specialists of Eptisa, International-Regional Environmental Safeguards Consultant Ms. Ketii Dgebuadze	1-2 October 2017
8	Site Monitoring	Environmental specialist of Eptisa	8-10 November 2017

3.3 Non-Compliance Notices

Kut-01, Ure-02 and Ure-01 projects

- 57.** 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).
- 58.** 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.
- 59.** Non-compliance notices have been issued by SC/Eptisa under Ure-01, Kut-01 and Ure-02 projects in following date: 27-28 July 2017, 3 August 2017, 22 September 2017, 7 November 2017 (see Annex C).

3.4 Corrective Action Plans

- 60.** For the purpose of resolving the observed issues, the Corrective Action Plans have been developed by the contractor under Kut-01, Ure-01 and Ure-02 projects (Sample CAP in presented in Annex G).
- 61.** The regular Environmental Meetings were also carried out with the participation of UWSCG/IPMO/DEPRP, SC/Eptisa and contractors of Kut-01, Ure-01 and Ure-02 sub-projects. 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 8: Actions taken for implementation of mitigation measures under Kut-01, Ure-01 and Ure-02 projects by the end of December 2017

Construction Site	Environmental Issues	Action taken
Ureki/Reservoir #1	Safety rules during high-altitude works should be respected to avoid workers damage	Completed (Contractor developed Corrective Action Plan, presented in Annex G)
	During high-altitude works special protection equipment should be used	
	Workers always should use complete set of PPE	
	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	
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
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed
Ureki/Well Field	Protect River bank alongside the Ureki Well fields	SC/EPTISA has started working on design of river bank protection.
	Contractor to install fencings for Ureki Well Fields	Contractor has started fencing works on Well field

KUT-01

Construction Site	Environmental Issues	Action taken
Kut-01		
Kutaisi Network		
	Construction activities information signs should be installed at each construction segment	Completed
	Trees of nearby construction zone should be protected to avoid its damage	Completed
	Safety signs/tapes around of all open trenches should be installed to avoid accident of population	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)

Construction Site	Environmental Issues	Action taken
	Special blinking signs or flag men (where necessary) should be provided when passing streets to avoid disturbance of car movements	Not Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Piles of surplus waste soil (across the Khidi st.) should be removed and disposed in a proper place	Completed
	Construction materials should be brought when needed to avoid its long time disposal in the streets and disturbance of residents and businesses	Completed
	Resident houses nearby areas should be clean from construction materials to avoid disturbance of residents and businesses	Completed
	All transmission line construction segments should be cleaned/well organized on regular bases	Completed
	Workers always should use complete PPE	Completed
	Refilling/compaction and reinstatement process should bring site at the same or better condition as it was before construction	Not Completed (Recommendations to address Environmental Issues are provided in Table 11)
Mukhrani Reservoir		
	Safety tapes should be installed around of all open tranches	Completed
	All trees at the construction site should be fenced and protected (trees should be exempt from materials) to avoid its damage	Completed
	All workers (even personnel of subcontractor) should be equipped with complete PPE	Completed
	Special equipment during working at heights should be used (proper scaffoldings etc.)	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Ladder safety should be ensured	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Completed
	Site internally should be arranged properly, and construction materials segregated/stored accordingly	Partially Completed (See recommendations in Table 11)
	Construction waste (wooden, iron waste and its.) should be removed timely and completely	Completed
Godogani Reservoir		

Construction Site	Environmental Issues	Action taken
	Site should have proper lockable gate with relevant signs	Completed
	Construction territory should be lighted adequately for winter working? (as no working at night correct)	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Proper warning and information signs should be arranged at the entrance and perimeter of the site	Completed
	Safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Trees at the construction site and nearby deep excavation zone should be well isolated and protected to avoid its falling and damage	Completed
	The access road and internal roads should be gravelled and arranged properly	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Waste should be placed only at the proper waste container	Completed

Ure-02


Construction Site	Environmental Issues	Action taken
Ure-02		
	All construction materials should be properly segregated and stored adequately	Completed
	Ladder safety should be ensured	Completed
	During high-altitude works should be used special protection equipment	Completed
	Tanks of fuel/lubricants should be managed properly	Completed
	Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Completed
	Waste materials, including hazardous waste should be removed timely and regularly	Partially Completed (Recommendations to address Environmental Issues are provided in Table 11)
	Waste should be placed only at the proper container and discharged timely	Completed
	Safety signs/tapes around of all open trench/excavations should be installed	Completed
	Soil (surplus/accumulated soil) for backfilling	Completed

Construction Site	Environmental Issues	Action taken
	purposes should be managed/stored properly	

62. An Annual Environmental Compliance Safeguard Review Mission was carried out by ADB on 28 September – 2 October 2017 to review environmental safeguards compliance of USIIP projects.

3.5 Actions taken to reflect the findings of ADB mission carried out on 28 September – 2 October 2017

Table 9: Status of Findings of ADB Mission Carried Out on 28 September – 2 October 2017

Project	Specific Issues	Deadline for submission/Implementation	Implementation Status
Status of findings of ADB mission carried out on 28 September – 2 October 2017			
Ure-01 Rehabilitation of the Water Supply System in Ureki			
	<p>Waste Management: There were separate waste containers for municipal and hazardous waste at the site with signatures, but they were not placed at special designated area with roofing and concrete base/secondary drip tray</p> 	September 2017	Completed (Please see the improved site photo below)
	Conduct training for new environmental specialist of Contractor (Gela Kiknadze) related to ADB safeguards requirements and SSEMP preparation by RETA International-Regional Environmental Consultant.	Q4 of 2017, Q1 of 2018	Will be conducted in Q1 of 2018, and training results will be reflected in EMR January-June 2018.
Ure-02 Construction of WWTP in Ureki			
	Territory of construction site of WWTP to be covered with gravel to	Q4 2017.	Not-Completed , will be completed in Q1, 2018,

Project	Specific Issues	Deadline submission/Implementation	Implementation Status
	avoid mud and puddles during the rainy weather and keep the site clean. Drainage system needs to be improved –		after completion of construction works
	Grievance boxes to be installed at all construction sites and focal persons/CLOs appointed by the Contractor.		Completed
Kut-01 Rehabilitation of Water Supply System in Kutaisi Phase II			
	<u>Mukhrani reservoir:</u> Territory of construction site should be covered with gravel to avoid mud and puddles during the rainy weather and keep the site clean. Waste management also should be improved.	Q4 2017	Not Completed. Will be implemented in Q1 of 2018

Table 10: Status of implementation of action plan of January-June 2017

Specific issues: Recommendations URE-02	Implementation Status
Conduct monitoring of environmental quality under URE-02 in Ureki WWTP site (February 2017) Parameters to be measured: Dust, Carbon monoxide, Nitrogen dioxide, Sulfur dioxide, Noise	Completed in December 2017 Measurement data are reflected in proposed EMR July-December 2017
Submit Company Waste Management Plan to the MoENRP y the end of June 2017	Submitted, 30 June 2017
Recommendations: Ure-01 NEWWW	
Conduct monitoring of environmental quality under Ure-01 project at network site, Pumping Station and Rez-01 by the end of October 2017.	Completed in December 2017 Measurement data are reflected in proposed EMR July - December 2017

Specific issues: Recommendations URE-02	Implementation Status
Recommendations: Kut-01	
Conduct monitoring of environmental quality under Kut-01 project sites (February 2017) Parameters to be measured: Dust, Carbon monoxide, Nitrogen dioxide, Sulfur dioxide, Noise	Completed in December 2017 Measurement data are reflected in proposed EMR July-December 2017

3.6 Consultations and Complaints

Public Awareness Activities

- 63.** During the reporting period public awareness activities in Kutaisi focused on meetings with local population, local self-governance representatives and NGO sector to find out main challenges and issues on which local population would like to receive more information. Apart from the public consultation meeting a special public opinion survey was implemented. Based on the meetings and survey results Eptisa PA Consultants will plan future PA activities for URE-01 and URE-02 projects.
- 64.** On December 9, Eptisa local PA consultant together with the UWSCG representatives met with local municipality, NGO sector and local population in Ureki. The aim of the consultation meeting was to raise the awareness on a project and discuss PA activities that Eptisa plans to implement in Ureki in partnership with UWSCG local office. Also to identify main issues and concerns of the population and topic on which they would like to receive more information.
- 65.** The first part of the meeting was dedicated to the project presentation. Main activities that Eptisa PA consultants implement in cooperation with the UWSCG PR department to raise the awareness of population on the project and safe and wise water consumption were also presented and discussed. Presentations were followed by Q and A session. Overall the meeting was very constructive and both representatives of the local population and local municipality were actively engaged in discussion. At the end of the meeting local self-governance representatives expressed interest to support the door to door campaign in Ureki by assigning their volunteers who can support Eptisa and UWSCG representatives in implementation of the door to door campaign. It was agreed that prior to the commence of the door to door in Ureki Eptisa PA consultants will train local municipality volunteers who express interest to carry out the door to door campaign.
- 66.** At the end of the meeting the representatives of the local population and municipality offered recommendations and identified some challenges that need to be taken care in order to start the Public Awareness campaign for URE-01 and URE-02 projects.
- 67.** Recommendations identified during the meeting included:
- The local self-government representatives asked the construction company and Eptisa representatives to take into consideration that it would be important if the water supply system will also be constructed for the population living near the Tsvermagala reservoir.

- Population near the reservoir is distracted by noise without having any benefits from the rehabilitation as process does not envisage water supply system rehabilitation for these settlements.
68. As UWSCG does not have a service center in Ureki, representatives of the local NGOs asked Eptisa local PA consultant to serve as a liaison and regularly update them about the project progress and activities. Also facilitate discussions and consultation meetings.
69. The following challenges were also identified during the meeting:
- Number of exact beneficiaries of the project is not identified. Therefore the UWSCG representatives were asked to seek this information from the company that provides electricity to the region.
 - The current project in Ureki envisages water and sewage rehabilitation for private houses only. But apart from the houses there are also 7 apartment buildings in Ureki. Some of them have an old individual sewage system in place but these systems in most cases are outdated. Local population asked UWSCG representatives to include these apartment buildings in the project as well.
 - Local population is also interested what will be the tariff of the water consumption for those sole proprietors who rent out rooms for tourists during summer period.

Public Opinion Survey

70. During the reporting period Eptisa PA consultants implemented a small public opinion survey in Ureki to find out how well the effected population was informed about the project and what were the main issues, topics that the population was interested to receive more information on. Also how, through which communication channels, they would like to receive this information.
71. Special questioner was developed for the survey based on which 30 households were interviewed.
72. As a result of the survey it was identified that the local population is not sufficiently informed about the project but the interest towards the project is very high therefore population is eager to receive more information about the water supply and sanitation rehabilitation project. The water supply and sewage system rehabilitation project is very important for the population of Ureki, Shekvetili and Kaprovana as these are touristic areas and most of the households are either owners of hotels or rent houses or flats during the summer season.
73. According the survey the most important issues on which population would like to receive more information are: project timelines, water tariffs, quality of the potable water, and connection process to the main pipeline, sanitation and wise water consumption.
74. Most of the surveyed households would prefer to receive information about the project through information brochures, door to door campaign and consultation meetings.
75. Upcoming public awareness activities in for URE-01 and URE-02 project will be planned based on the survey results and in coordination with UWSCG and local self-governance.

Complaints received under Kut-01 project during the reporting period July-December 2017

76. During the reporting period total of 30 enquires were submitted to UWSCG via hotline or registering claims at the Local Service Center concerning the KUT -01 project. The

table below (Table 11) gives detailed information and analyses of the submitted proposals.

Table 11: List of grievances submitted During July-December 2017

#	Claims	January-June 2017
1	Damages on the pipeline/ water waste caused by the damage	50%
2	Other (damage to house fencing, blocked access to houses with the help of excavated hard soil, open tranches left over 24 hours, etc.)	25%
3	Connection problems/missed connections	15%
4	Rehabilitation of the road/other damages caused to infrastructure by the water system rehabilitation process	5%
5	Problems concerning the water supply /limited water supply or no water supply caused by the damages on pipeline, etc.	5%

Trainings carried out by Supervision Company/Eptisa

77. On site environmental safeguard trainings were organized for URE-01 and reg-02 project contractors 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 EMP/SSEMP requirements. The main issues of discussion were the site management and implementation of mitigation measures in accordance with the SSEMP.

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. Detailed procedures for GRM System are provided in Annex E.

PART IV – CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD

4.1 Conclusions and recommendations

79. As presented in this report, Tranche-3 of this Investment Program is being implemented in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF.

80. Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMP’s and SSEMP’s requirements for Kut-01, Ure-01 and Ure-02 projects.

81. More detailed recommendations are with indication of the entities responsible for their implementation are provided in the table below:

Table 12: Recommendations to address Environmental Issues

Environmental issues under KUT-01, Ure-01 and Ure-02 projects	Recommendations
Kutaisi Network	
Safety signs/tapes around of all open trenches should be installed to avoid accident of population	Instruction is given to contractor to develop relevant CAP and improve the situation immediately.
Special blinking signs or flag men (where necessary) should be provided when passing streets to avoid disturbance of car movements	Improvements will be presented in next EMR January-June 2018.
Refilling/compaction and reinstatement process should bring site at the same or better condition as it was before construction	
Kutaisi Mukhrani Reservoir	
Special equipment during working at heights should be used (proper scaffoldings etc.)	Instruction is given to contractor to develop relevant CAP and improve the situation immediately.
Ladder safety should be ensured	Improvements will be presented in next EMR January-June 2018.
Site internally should be arranged properly, and construction materials segregated/stored accordingly	
Kutaisi Godogani Reservoir	
Construction territory should be lighted adequately	Instruction is given to contractor to develop relevant CAP and improve the situation immediately.
Safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents	
The access road and internal roads should be gravelled and arranged properly	Improvements will be presented in next EMR January-June 2018.
Ure-01, Well Fields	
Protect River bank alongside the Ureki Well fields	SC/EPTISA is instructed to finalize working on design of river bank protection, in order to start river protection actions.
Contractor to install fencings for Ureki Well Fields	Contractor to finalize fencing works on Well field
Reg-02	
Waste materials, including hazardous waste should be removed timely	Instruction is given to contractor to improve the situation immediately

Environmental issues under KUT-01, Ure-01 and Ure-02 projects	Recommendations
	<p>and send improvement photos.</p> <p>Improvements will be presented in next EMR January-June 2018</p>

4.2 Action Plan for the next period

- 82. Implement Tranche-3 in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF.
- 83. Conduct monitoring of environmental quality under Kut-01, Ure-01 and Ure-02 projects at each construction site in with particular reference to dust, noise and vibration.
- 84. Carry out noise measurement at the nearest sensitive receptors and at the construction site by the end of March 2018.
- 85. The specific plan for measurement is as follows:

Table 13: Conduct monitoring of environmental quality under Kut-01, Ure-01 and Ure-02 projects at each site

Parameters	Quarterly measurement
Dust	March 2018
Vibration	March 2018
Carbon monoxide	March 2018
Nitrogen dioxide	March 2018
Sulfur dioxide	March 2018
Noise	March 2018



№ 12/1-086

22 10

შპს "ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ და
კო.კგ-ის წამომადგენლობას საქართველოში"

საქართველოს გარემოსა და ბუნებრივი რესურსების დაცვის სამინისტროს ს.ს.ი.პ „გარემოს ეროვნულ სააგენტო“-სა და შპს „ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ და კო.კგ-ის წამომადგენლობა საქართველოში“-ს შორის 2016 წლის 01 ნოემბერს გაფორმებული ფასიანი მომსახურების შესახებ ფმ-3/994 ხელშეკრულების თანახმად, გაწვდით დაბა ანაკლიასა და დაბა ურეკში, თქვენს მიერ მითითებულ ატმოსფერული ჰაერის სამ წერტილში გაზომილი დამაბინძურებელ ინგრედიენტთა კონცენტრაციის შედეგებს - ხმაურის, ნახშირის დიოქსიდის, აზოტის დიოქსიდის, მტვერისა და გოგირდის დიოქსიდის შემცველობაზე, ქართულ და ინგლისურ ენაზე.

დანართი: 2 გვ.

პატივისცემით,

სააგენტოს უფროსი



თამარ ბაგრატია



სინჯის აღწერა ადგილი, კორდინატები	ხმაური დბ	მტვერი მკ/მ ³	ფორდის დოქსიდი მკ/მ ³	აზოტის დოქსიდი მკ/მ ³	ნახშირჟანგი მკ/მ ³
ანაკლია X 0713640 Y 4697365	53.7	0.363	<0.1	0.001	0.87
საწარმოს ტერიტორია X 0714137 Y 4697757	45.2	0.031	<0.1	<0.001	0.63
ურეკი X 0730237 Y 4650518	62.2	0.015	<0.1	0.001	0.24

შემსრულებლები:

მთავარი სპეციალისტი

მთავარი სეციალისტი

სპეციალისტი

ა.წ.წ.

ომარ ყენია

სერგო ზაგვა

გიგლა შორგოშია



შეთანხმებულია:

გარემოს დამინტერესების მონიტორინგის

დეპარტამენტის უფროსი

მარინე არაბიძე

Concentration of harmful substances in atmospheric

Samplin place coordinates	Noise DB	Dust mg/m ³	Sulfur dioxide SO ₂ mg/m ³	Nitrogen dioxide NO ₂ mg/m ³	Carbon oxide CO mg/m ³
Anaklia X 0713640 Y 4697365	53.7	0.363	<0.1	0.001	0.87
Enterprise area X 0714137 Y 4697757	45.2	0.031	<0.1	<0.001	0.63
Ureki X 0730237 Y 4650518	62.2	0.015	<0.1	0.001	0.24

Executors:
Main specialist
Main specialist
Specialist

Agreed:
Head Environmental Pollution
Monitoring Department

Kenya

O. Kenia
S. Khatsava
G. Morgoshia



M. Arabidze

ინფორმაცია
 ატმოსფერულ ჰაერში დამაბინძურებელ ინერგულეთა კონცენტრაციის შესახებ
 შპს „ჯერი“ დაგეგმული 2017

სიჩქარის ადგილის იდენტიფიკაციის კოორდინატები	სიჩქარის N	ბმაური დაბ	ნაჯერი ნაბინძურებადები		ნახშირბადის ოქსიდი CO	კონცენტრაცია მეტრ პრუბის დოქსიდი NO ₂		მეტერი დოქსიდი SO ₂	მოცულობით დოქსიდი H ₂ S
			ნაჯერი ნაბინძურებადები	ნახშირბადის ოქსიდი CO		კონცენტრაცია მეტრ პრუბის დოქსიდი NO ₂	მეტერი დოქსიდი SO ₂		
წვრიანა რეზერვუარი X 0731286 Y 4643708	1	40.5	0	0.23	<0.001	0.001	<0.1	<0.1	
	2	40.8	0	0.3	<0.001	0.001	<0.1	<0.1	
	3	49.0	<1	0.61	0.003	0.005	<0.1	<0.1	
	4	40.5	0	0.32	<0.001	0.002	<0.1	<0.1	
ურჯი X 0729977 Y 4653057	1	40.6	0	0.15	<0.001	0.002	<0.1	<0.1	
	2	42.4	<1	0.28	0.001	0.007	<0.1	<0.1	
	3	43.0	<1	0.76	0.001	0.012	<0.1	<0.1	
	4	40.9	0	0.27	<0.001	0.003	<0.1	<0.1	
შაქხაილი X 0728847 Y 4650259	1	45.1	0	0.16	0.006	0.004	<0.1	<0.1	
	2	53.0	<1	1.17	0.008	0.017	<0.1	<0.1	
	3	53.3	<1	1.42	0.011	0.018	<0.1	<0.1	
	4	44.2	0	0.31	0.003	0.002	<0.1	<0.1	
ლაიჯერი X 0740378 Y 4646545	1	40.0	0	0.17	<0.001	0.001	<0.1	<0.1	
	2	52.3	<1	0.2	0.007	0.004	<0.1	<0.1	
	3	51.7	<1	0.22	0.006	0.004	<0.1	<0.1	
	4	40.2	0	0.17	<0.001	0.001	<0.1	<0.1	

შეზღუდვები:
 მოცულობითი

სტაციონალი
 შეთანხმებულია:
 ზარების დაბინძურების მონიტორინგის დეპარტამენტი
 უფროსი



რ. გვიგენი

დ. მორგოზაძე

მ. აბაშიძე

Concentration of harmful substances in atmospheric

Sampling place coordinates	Sample No	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 0731286 Y 4643708	1	40.5	0	0.23	<0.001	0.001	<0.1	<0.1
	2	40.8	0	0.3	<0.001	0.001	<0.1	<0.1
	3	49.0	<1	0.61	0.003	0.005	<0.1	<0.1
	4	40.5	0	0.32	<0.001	0.002	<0.1	<0.1
Ureki, X 0729977 Y 4653057	1	40.6	0	0.15	<0.001	0.002	<0.1	<0.1
	2	42.4	<1	0.28	0.001	0.007	<0.1	<0.1
	3	43.0	<1	0.76	0.001	0.012	<0.1	<0.1
	4	40.9	0	0.27	<0.001	0.003	<0.1	<0.1
Shekvetili X 0728847 Y 4650259	1	45.1	0	0.16	0.006	0.004	<0.1	<0.1
	2	53.0	<1	1.17	0.008	0.017	<0.1	<0.1
	3	53.3	<1	1.42	0.011	0.018	<0.1	<0.1
	4	44.2	0	0.31	0.003	0.002	<0.1	<0.1
Laituri X 0740378 Y 4646545	1	40.0	0	0.17	<0.001	0.001	<0.1	<0.1
	2	52.3	<1	0.2	0.007	0.004	<0.1	<0.1
	3	51.7	<1	0.22	0.006	0.004	<0.1	<0.1
	4	40.2	0	0.17	<0.001	0.001	<0.1	<0.1

Executors:
Main specialist
Specialist

Agreed:
Head Environmental Pollution
Monitoring Department

Georgia
O. Kenia

G. Morgoshia



M. Arabidze

ANNEX B: PROJECT PHOTOS



Kut-01: Mukhnari Reservoir



Kut-01: Access to the Mukhnari Reservoir



Kut-01: Mukhnari Reservoir





Kut-01: Network



Ure-01 – Pumping Station



Ure-01 - Reservoir #1



Ure-02: WWTP project site

ANNEX C: NON-COMPLIANCE NOTICES

NON-COMPLIANCE NOTICE – KUT-01

Non-Compliance Notice

Project: USIIP	Non-compliance Notice KUTAISI
Contract No: KUT-01	
Contractor: SMK	
Reference: Kutaisi – Godogani Reservoir, 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 KUTAISI

Godogani Reservoir

- Site should have proper lockable gate with relevant signs
- Construction territory should be lighted adequately
- Proper warning and information signs should be arranged at the entrance and perimeter of the site
- Safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents
- Trees at the construction site and nearby deep excavation zone should be well isolated and protected to avoid its falling and damage
- The access road and internal roads should be gravelled and arranged properly
- Waste should be placed only at the proper waste container
- Hazardous Waste container with proper sign should be installed
- Parking area should be better organized, transport should be parked only at the designated parking area
- Workers always should use complete PPE
- Site internally should be arranged properly and cleaned regularly, including construction materials segregation

Photos of Godogani Reservoir





NETWORK

- Construction activities information signs should be installed at each construction segment
- Trees of nearby construction zone should be protected to avoid its damage
- Safety signs/tapes around of all open trenches should be installed to avoid accident of population
- Special blinking signs or flag men (where necessary) should be provided when passing streets to avoid disturbance of car movements
- Piles of surplus waste soil (across the Khidi st.) should be removed and disposed in a proper place
- Construction materials should be brought when needed to avoid its long time disposal in the streets and disturbance of residents and businesses
- Resident houses nearby areas should be clean from construction materials to avoid disturbance of residents and businesses
- All transmission line construction segments should be cleaned/well organized on regular bases
- Workers always should use complete PPE
- Refilling/compaction and reinstatement process should bring site at the same or better condition as it was before construction

Photos of Kutaisi Network



Khidi st.



Khidi st.



Tsereteli st.



Tsereteli st.



Tsereteli st.



Tsereteli st.



Tsereteli st.



Tsereteli st.



Tsereteli st.

All these conditions have to be remedied within seven days (by the 16 November 2017) by the prime Contractor (SMK).

Date of site visits 09.11-10.11.2017

Irakli Legashvili
EPTISA - Environment

Non-Compliance Notice

Project: USIIP	Non-compliance Notice KUTAISI
Contract No: KUT-01	
Contractor: SMK	
Reference:	

Kutaisi – Mukhnari and Godogani reservoirs

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 KUTAISI

Mukhnari Reservoir

- Safety tapes should be installed around of all open tranches
- All trees at the construction site should fenced and protect (trees should be exempt from materials) to avoid its damage
- All workers (even personnel of subcontractor) should be equipped with complete PPE
- Special equipment during working at heights should be used (proper scaffoldings etc.)
- Safety norms during works at the height should be respected
- Ladder safety should be ensured
- Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site
- Site internally should be arranged properly, and construction materials segregated/stored accordingly
- Construction waste (wooden, iron waste and its.) should be removed timely and completely





Godogani Reservoir

- Site should be properly fenced from all sides
- Proper warning and information signs should be arranged at the entrance and perimeter of the site
- Safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents
- Topsoil should be stored according to the standards/requirements
- Walls of the deep trenches (>1.5m) should be strengthened to avoid landfall of the soil and accidents
- Trees at the construction site (high attention to red listed trees) and nearby deep excavation zone should be fenced protect to avoid its falling and damage
- Household Waste container with proper sign should be installed
- Hazardous Waste container with proper sign should be installed
- Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site
- Proper Parking area with relevant sign should be arranged
- Site internally should be arranged properly and cleaned regularly
- Site should be arranged according to the SSEMP document, including storage, office, toilets etc.



All these conditions have to be remedied within seven days (by the 18 August 2017) by the prime Contractor (SMK).	
Date of site visits: 10.08.2017	
Irakli Legashvili EPTISA - Environment	

NON-COMPLIANCE NOTICE Ure-01

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-01	
Contractor: PERI	
Reference: UREKI – RESERVOIR	

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

RESERVOIR

- Safety rules during high-altitude works should be respected to avoid workers damage
- During high-altitude works special protection equipment should be used
- Implementing works without special protection equipment is strictly prohibited
- Workers always should use complete PPE



All these conditions have to be remedied within three days (by the 7 August 2017) by the prime Contractor (Peri).

Irakli Legashvili EPTISA - Environment	03.08.2017
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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

NETWORK

- All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place
- Special warning and information signs should be installed
- Trees (nearby territory) should be freed from pipes to avoid its damage
- Piles dedicated warehouse should be fenced, protected and organized as suggested for warehouse arrangement





All these conditions have to be remedied within four days (by the 16 July 2017) by the prime Contractor (Peri).

Irakli Legashvili EPTISA - Environment	

NON-COMPLIANCE NOTICE – Ure-02

Non-Compliance Notice

Project: USIIP	Non-compliance Notice UREKI
Contract No: URE-02	
Contractor: PFIEFFER	
Reference: UREKI – WWTP SITE	
This notice is to advice 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

- All construction materials should be properly segregated and stored adequately
- Ladder safety should be ensured
- During high-altitude works should be used special protection equipment
- Tanks of fuel/lubricants should be managed properly
- Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site
- Waste should be placed only at the proper container and discharged timely
- Waste materials, including hazardous waste should be removed timely and regularly
- Safety signs/tapes around of all open trench/excavations should be installed
- Soil (surplus/accumulated soil) for backfilling purposes should be managed/stored properly
- PPE equipment should be used always and completely by all workers
- Site internally should be arranged properly and cleaned regularly





All these conditions have to be remedied within three days (by the 17 November 2017) by the prime Contractor (Pfeiffer).

Date of site visits: 09.11-10.11.2017

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
Kut-01			
Network	Construction activities information signs should be installed at each construction segment	Completed	Contractor is instructed to keep the same standard
	Trees of nearby construction zone should be protected to avoid its damage	Completed	Contractor is instructed to keep the same standard
	Safety signs/tapes around of all open trenches should be installed to avoid accident of population	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Special blinking signs or flag men (where necessary) should be provided when passing streets to avoid disturbance of car movements	Not Completed	Contractor is instructed to develop CAP and provide improved Photos to UWSCG.
	Piles of surplus waste soil (across the Khidi st.) should be removed and disposed in a proper place	Completed	Contractor is instructed to keep the same standard
	Construction materials should be brought when needed to avoid its long time disposal in the streets and disturbance of residents and businesses	Completed	Contractor is instructed to keep the same standard
	Resident houses nearby areas should be clean from construction materials to avoid disturbance of residents and businesses	Completed	Contractor is instructed to keep the same standard
	All transmission line construction segments should be cleaned/well organized on regular bases	Completed	Contractor is instructed to keep the same standard
Kut-01			
Mukhnari Reservoir	Safety tapes should be installed around of all open tranches	Completed	Contractor is instructed to keep the same standard
	All trees at the construction site should fenced and protect (trees should be exempt from materials) to avoid its damage	Completed	Contractor is instructed to keep the same standard
	All workers (even personnel of subcontractor) should be equipped with complete PPE	Completed	Contractor is instructed to keep the same standard
	Special equipment during working at heights should be used (proper scaffoldings etc.)	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June

Reference	Requirement	Action to date	Action required/comment
			2018
	Ladder safety should be ensured	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Completed	Contractor is instructed to keep the same standard
	Site internally should be arranged properly, and construction materials segregated/stored accordingly	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Construction waste (wooden, iron waste and its.) should be removed timely and completely	Completed	Contractor is instructed to keep the same standard
Kut-01			
Godogani reservoir	Site should have proper lockable gate with relevant signs	Completed	Contractor is instructed to keep the same standard
	Construction territory should be lighted adequately	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Proper warning and information signs should be arranged at the entrance and perimeter of the site	Completed	Contractor is instructed to keep the same standard
	Safety signs/tapes and trench side barriers around of deep open excavation should be installed from all sides to avoid accidents	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Trees at the construction site and nearby deep excavation zone should be well isolated and protected to avoid its falling and damage	Completed	Contractor is instructed to keep the same standard
	The access road and internal roads should be gravelled and arranged properly	Partially Completed	Contractor is instructed to improve the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018
	Waste should be placed only at the proper waste container	Completed	Contractor is instructed to keep the same standard
Ure-01			
Reservoir #1	Safety rules during high-altitude works should be respected to avoid workers damage	Completed	Contractor is instructed to keep the same standard
	During high-altitude works special protection equipment should be used	Completed	Contractor is instructed to keep the same standard
	Workers always should use complete PPE	Completed	Contractor is instructed to keep the same standard

Reference	Requirement	Action to date	Action required/comment
	All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place	Completed	Contractor is instructed to keep the same standard
	Special warning and information signs should be installed	Completed	Contractor is instructed to keep the same standard
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed	Contractor is instructed to keep the same standard
Ure-01			
Well Fields	Protect River bank alongside the Ureki Well fields	SC/EPTISA has started working on design of river bank protection.	Contractor is requested to protect River Bank alongside the Ureki Well fields as soon as final design is proposed by Eptisa
	Contractor to install fencings for Ureki Well Fields	Contractor has started fencing works on Well field (Please see Annex B – Photo of well fields).	Contractor is requested to finalize fencing of Ureki Well Fields
Ure-01			
Network	All construction materials (pipes) should be accurately stacked and stored properly at the special dedicated place	Completed	Contractor is requested to keep the standards and to follow EMP requirements
	Special warning and information signs should be installed	Completed	
	Trees (nearby territory) should be freed from pipes to avoid its damage	Completed	
Ure-02			
	All construction materials should be properly segregated and stored adequately	Completed	Contractor is given instruction to keep the standard
	Ladder safety should be ensured	Completed	
	During high-altitude works should be used special protection equipment	Completed	
	Tanks of fuel/lubricants should be managed properly	Completed	
	Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Completed	
	Waste materials, including	Partially Completed	Contractor is instructed to improve

Reference	Requirement	Action to date	Action required/comment
	hazardous waste should be removed timely and regularly		the situation and provide relevant photos, improvements will be reflected in EMR January-June 2018

ANNEX E: Detailed Procedures for GRM System Implementation

Grievance redresses mechanism (GRM)

- 86.** 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. As it was mentioned above the GRM in Kutaisi has been operational since April 2014, and the system operates in three stages.
- 87.** During the first stage, complaints are discussed within two weeks of being received by the local service centre of UWSCG (e.g. Kutaisi office), 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.
- 88.** The service centre operators, who are trained² 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 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 of the Environmental and Resettlement Division, Maka Goderdzishvili.
- 89.** When a grievance is solved positively in the first stage, the grievance is closed through an Agreement Protocol, which is reflected in the eDocument – Task Management System.
- 90.** 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
 - 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
- 91.** 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)

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.

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.

92. 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.
93. 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 REPORTS

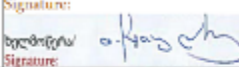
NEWWW

Kut-01

ყოველკვირული გარემოსდაცვითი მონიტორინგი
Weekly Environmental Monitoring

Name of the Contractor and project number/lot შენიშნული კონტრაქტორის სახელი და პროექტის/ლოტის ნომერი	SMK Ulusal Insaat Ve Ticarət A.S. (Turkey), Construction and Rehabilitation of Water Supply System in Kutaisi / Phase 2 (KUT-01)
კონტრაქტის #: Contract #:	Contract No: P43405-ICB-KUT-01
Description and Location of the Site სამშენებლო საიტის ადგილმდებარეობის აღწერა	Mukhnari/მუხნარი
Implementing Agency განმახორციელებელი სააგენტო	შპს „საქართველოს გაერთიანებული წყალმომარაგების კომპანია“ "United Water Supply Company of Georgia", LLC
Date of Visit (Year/Month/Day) ვიზიტის დრო და თარიღი	09 ივლისი/July – 16 ივლისი/July
Supervisor's Identity (name, last name, contact information and signature) საზედამხედველი კომპანიის წარმომადგენლის სახელი, გვარი, საკონტაქტო ინფორმაცია და ხელმოწერა	კონტრაქტორი/Contractor: Signature and stamp/ხელმოწერა და ბეჭედი
Current Stage of Civil Works სამშენებლო სამუშაოების მიმდინარე სტატუსი	მშენებარე On going
Weather Conditions ამინდის პირობები	Sunny/შხიანი

საიტის უსაფრთხოება/ზეგარემოს დაცვაზე პასუხისმგებელი პირი (კონტრაქტორი) Staff responsible for environment/safety at the site (contractor)	სახელი: მამუკა დარახველიძე Name: Mamuka Darakhvelidze	ხელმოწერა/ Signature:  ხელმოწერა/ Signature
მშენებლობის ინსპექტორი (ზედამხედველი) Construction site inspector (supervisor)	სახელი: ნოდარ მჭედლიშვილი Name: Nodar Mchedlishvili	ხელმოწერა/ Signature:  ხელმოწერა/ Signature

გარემოს დაცვის სპეციალისტი (კონტრაქტორი) Environmental Specialist (contractor)	სახელი: თამაზ კუთათელაძე Name: Tamta Kutateladze	ხელმოწერა/ Signature:  ხელმოწერა/ Signature
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N	Documents and Facts to be Examined შესამოწმებელი დოკუმენტები და ფაქტები	კ/ა/ნა/არ	არ	ნა	არ	არ	შენიშვნა/ Comment
1	EMPs/SSEMPs, Protocols and Reports	yes	no	Partially	N/A		
1.1	Contractor's Site-specific Environmental Management Plan (SSEMP) is prepared, reviewed and approved by PIU prior to contractor commencing the works. შესამოწმებელი და დამტკიცებულია საიტ- სპეციფიკური გარემოსდაცვითი მართვის გეგმა.	✓					Construction of Water Supply System in Kutaisi - phase II
1.2	Construction contractor has National Environmental Specialist in staff. მშენებელ კონტრაქტორს დადებული აქვს ხელშეკრულება ადგილობრივ გარემოსდაცვითი სპეციალისტის მართვის სპეციალისტთან.	✓					
1.3	Construction contractor has International Environmental Specialist in staff. მშენებელ კონტრაქტორს დადებული აქვს ხელშეკრულება სერთიფიცირებული გარემოსდაცვითი სპეციალისტის მართვის სპეციალისტთან.	✓					
1.4	Monthly environmental monitoring reports are prepared by the Contractor and submitted to the Supervision Consultant მომზადებულია გარემოსდაცვითი მართვის გეგმის განხორციელების ყოველთვიური ანგარიშები კონტრაქტორის მიერ და წარდგინდა ინჟინერ-სპეციალისტს.	✓					
1.5	Emergency Response Plan is prepared and approved. შემომზადებულია და მიღებულია ავარიული სიტუაციებზე რეაგირების გეგმა.	✓					
1.6	Health and Safety Management Plan is prepared and approved. შესამოწმებელი და მიღებულია უსაფრთხოების და უსაფრთხოების მართვის გეგმა და უსაფრთხოების და უსაფრთხოების მართვის სისტემის მშენებლობის ექსპლანაციის.	✓					
1.7	Complaints log exists on construction site. საიტის უსაფრთხოების ანგარიშის არსებობის შემოწმება საიტზე.	✓					
1.8	Site inspection non-compliance notices issued and corrective action requests implemented.	✓					

მუშაპროექტების შეტყობინებების მიწოდება და წარდგენა კონტრაქტორისთვის და საკონტრაქტო ვალდებულებების განხორციელება.					
1.9 Training/Capacity building activities undertaken as per EMP requirements and records kept of trainings. გაფორმებული და ხელმოწერილია მუშაპროექტის ტრენინგი სივლითი განმარტების და უსაფრთხოების საკითხებზე. ტრენინგის ანგარიშები მიწოდებულია და ინახება საიტის კვანძზე.	✓				

2 Permits, Licenses and Contracts

2.1 The Contractor has a permit or relevant contract from the Municipality for final disposal of construction waste/კონტრაქტორს მიღებული აქვს საშუალებლობა ნარჩენების საბოლოო განთავსების წებარაფა ამ შესაბამისი კონტრაქტი ადეკვატურად ორგანიზაციის.	✓				
2.2 The Contractor has a permit for final disposal of municipal waste. კონტრაქტორს მიღებული აქვს საყოველთაო ნარჩენების საბოლოო განთავსების წებარაფა.	✓				
2.3 The Contractor has executed the contract with the licensed organization on the hand over and disposal of hazardous waste. კონტრაქტორს გაფორმებული აქვს საბოლოო ნარჩენების გადაცემის და გატანის ხელშეკრულება დიპლომირებულ ორგანიზაციასთან.	✓				
2.4 The Contractor has a license for tree felling/კონტრაქტორს გააჩნია დოკუმენტის ქრონისთვის.	✓				

3 Performance of civil works

3.1 საშუალებო ტერიტორიის სრულად შემოღობვა Adequate fencing of construction area from all sides	✓				
3.2 საეკოლოგიური შესაცვლელი კარის მოწყობა, სტანდარტული განმარტებით აღჭურვა და საინფორმაციო ნიშნები აღჭურვა Arrangement of lockable gate with standard warning and information signs	✓				
3.3 საშუალებო ტერიტორიაზე და პერიმეტრზე სტანდარტული განმარტებით აღჭურვა და საინფორმაციო ნიშნების განთავსება Placement of standard warning and information signs at the perimeter and inside of construction area	✓				
3.4 დიდი დატვირთვით მხრივ და ქვებზე უსაფრთხოების ღრუბლების, ხარბების და გამაფრთხილებელი ნიშნების განთავსება Installation of safety signs/tapes and trench side barriers around of open trenches				✓	
3.5 1,5 მეტრზე მეტი სიღრმის ტრანშეხში კედლების გამაფრთხილება				✓	

3.6 დასახლებულ ადგილებში დიდი დატვირთვით მხრივზე დროებითი გადასაფარებლების მოწყობა Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas				✓	
3.7 საშუალებო ტერიტორიაზე, საბუნების რაიონის არსებული ხეების შემოწვევა (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage	✓				
3.8 ტენკეების დროს, ნიადაგის ნაყოფიერი (დაახლოებით 20-30 სმ სიღრმის) ფენის მოხსნა და განაღებულად გრუბრება შესახებ Removal of top soil (about 30 cm depth) and separately storing in appropriate place	✓				
3.9 საშუალებო ნარჩენების და ჭარბი ნარჩენი გრუბრების დროული გატანა/განთავსება Timely removal/disposal of construction waste and surplus waste soil	✓				
3.10 საშუალებო ტერიტორიის დამის საათებში განთავსება Provide adequate lighting of construction territory	✓				
3.11 საშუალებო ტერიტორიის შესაბამისად მოწყობა შესაღობის და მოწყობილობების და დანადგარების ორგანიზებული განთავსება (საჭიროების შემთხვევაში) Proper arrangement of construction site and segregation/storing of construction materials/equipment. (bring the material when required)	✓				
3.12 საშუალებო ტერიტორიაზე საწვების და საბოი მასალების დიდების შედეგების საღვთიადი ნარჩენების (ტენკა, ნარჩენი, მცირე ზომის ავტო და სხვა) ხელმისაწვდომობა Availability of proper fuel/oil spill response items (sand, absorbent, special containers) at the construction site	✓				
3.13 საწვების და საბოი მასალების კონტეინერების განთავსება მხოლოდ სპეციალურ გადასურულ ადგილებში Allocation of fuel and lubricants containers at the special dedicated place (with roofing and concrete flooring)	✓				
3.14 საშუალებო ტერიტორიაზე საყოველთაო ნარჩენებისთვის თვისებრივი 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")	✓				
3.15 საშუალებო ტერიტორიაზე საბოი ნარჩენებისთვის თვისებრივი 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")					
3.16	სამშენებლო ტერიტორიაზე ან მის გარეთ ტრანსპორტაციის პარკირების ადეკვატური მოწყობა და სიმახვი აღკვეთა (მაგ. P) Arrangement of proper Parking area at the adequate place inside/outside of construction territory with relevant sign (for example P)	✓				
3.17	სამშენებლო მასალების და ნარჩენების ტრანსპორტირების დროს ავტოტრანსპორტის სპეციალური საფარი (პრეზერვატორი, ტენციოლახიცა) აღკვეთა Use tarpaulins cover during materials transportation		✓			
3.18	საჭიროების დროს გამოიყენებენ მუცლის წარმოქმნის პრევენციას (Dust generation prevention activities (when needed))	✓				
3.19	მუშების და ინჟინერ-ტექნიკური პერსონალის მიერ ინდივიდუალური დაცვის საშუალებების (მაგ. თვალთვალი, ხელთათმისი, ჩუქნები, დამცვეი სარტყელი, და სხვა) სრულყოფილ გამოყენება Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks, safety belts	✓				
3.20	სიმაღლეზე მუშაობის დროს სპეციალური დამცვეი აღკვეთილების გამოყენება Use of special safety equipment during working at heights	✓				
3.21	სამშენებლო ტერიტორიის მუდმივად დალაგება და დასუფთავება Regularly cleaning of construction territory	✓				
4 Monitoring Measurements						
4.1	Monitoring measurement data (air, water, soil, erosion, noise, dust, vibration, etc). ნელოს, ჰაერის, ვიბრაციის, ეროზიის, ხილვის, მტვრის და წიდავების მონიტორინგის გაზომვის მონიტორინგი.	✓				დადებულია ხელშეკრულება შესაბამისი გაზომვის ჩატარების შესახებ (კვანტალური)
5 Top Soil Protection						
5.1	Topsoil is stripped and stored according to standard procedures and used further for landscaping and reclamation. წიდავების მოსპობის დროს დაცვა	✓				
6 Safety Measures						
6.1	The workers use all personal safety equipments required for individual technological processes (hard hats, gloves, respirators, glasses, etc). მუშებელი იყენებს დასრულებული ტექნოლოგიური პროცესებისთვის აუცილებელ პირად დამცვე საშუალებებს (მაგ. თვალთვალი, ხელთათმისი, რესპირატორები, სათვალეები და ა.შ.)	✓				
6.2	The sites are provided with the fire fighting and emergency medical aid kits, site is fenced, site lightning, signs are installed, etc.	✓				

	სამშენებლო ობიექტზე განთავსებულია ხანძარი-საფრთხილო და სასწრაფო სამედიცინო დახმარების საშუალო ნაკრები. საიტო მუშაობის დროს, განაკვეთს დაოსტატკებულია, საინფორმაციო დაფები/პირები გაკრულია და სხვ...					
7 Works Completion						
7.1	After completion of main works, the site undergoes final cleanup, harmonization with outward landscape and landscaping. ძირითადი სამუშაოს დასრულების შემდეგ ობიექტის საბოლოო დასუფთავება, გარე ლანდშაფტთან პარამორფიზაცია და გაწმენდა.	✓				სამშენებლო სამუშაოს დასრულების შესახებ/After completion construction works
7.2	After completion of the operations in the quarry or its certain section, the site material is backfilled, compacted, terraced and harmonized with the landscape. კარიერის ან მისი ცალკეული უბნის ექსპლუატაციის დასრულების შემდეგ ფლუვიო მასალის უკუბრუნება, კომპაქტირება, ტერასირება, და ლანდშაფტთან პარამორფიზაცია.			✓		
7.3	Final Post Construction Environmental Audit/monitoring is conducted and Final Environmental Audit Report is prepared /საბოლოო გარემოს დაცვის მონიტორინგი/აუდიტი ჩატარებულია და საბოლოო გარემოსდაცვის აუდიტის ანგარიში მომზადებულია.	✓				სამშენებლო სამუშაოს დასრულების შესახებ/After completion of construction

შენიშვნა/Comment:





ყოველკვირეული გარემოსდაცვითი მონიტორინგი

თარიღი/Date:

Weekly Environmental Monitoring

კონტრაქტის #: შპს ფერი Contract#:		ზედამხედველი: Eptisa Supervisor: Eptisa				
პროექტი/ობიექტი: URE-1 Project/Site:		კონტრაქტორი: Contractor: შპს ფერი				
N		კი/yes	არა/no	ნაწილობრივ/Partially	არეზ/ზა/ზა. A	შენიშვნა/Comment
1	სამშენებლო ტერიტორიის სრულად შემოღობვა. Adequate fencing of construction area from all sides	✓				
2	საკეტოანი შესასვლელი კარის მოწყობა, სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნებით აღჭურვა Arrangement of lockable gate with standard warning and information signs	✓				
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	✓				
4	ღიად დატოვებულ თხრილებზე და ჭებებზე უსაფრთხოების ლენტების, ზარიერების და გამაფრთხილებელი ნიშნების განთავსება Installation of safety signs/tapes and trench side barriers around of open trenches				✓	
5	1.5 მეტრზე მეტი სიღრმის ტრანშეებში კედლების გამაგრება. Strengthening of walls of the deep trenches (>1.5m) by boards				✓	
6	დასახლებულ ადგილებში ღიად დატოვებულ თხრილებზე ვეროებითი გადასასვლელების მოწყობა. Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas				✓	
7	სამშენებლო ტერიტორიაზე, სამუშაოების ზონაში არსებული ხეების შემორაგვა (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage			✓		
8	ექსკავაციის დროს, ნიადაგის ნაყოფიერი (დაახლოებით 20-30 სმ სისქის) ფენის მოხსნა და განეალკვევებულად დაგროვება, შენახვა. Removal of top soil (about 30 cm depth) and separately storing in appropriate place				✓	
9	სამშენებლო ნარჩენების და ჭარბი ნარჩენი გროუნტის დროული გატანა/განთავსება. Timely removal/disposal of construction waste and surplus waste soil	✓				
10	სამშენებლო ტერიტორიის დამის საათებში განათება. Provide adequate lighting of construction territory	✓				

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)	✓			
12	სამშენებლო ტერიტორიაზე საწვავის და საპოხი მასალების დაღვრის შედეგების სალიკვიდაციო ნაკრების (ქვიშა, ნახერხი, მცირე ზომის ავზი და სხვა) ხელმისაწვდომობა. Availability of proper fuel/oil spill response items (sand, sawdust, special containers) at the construction site		✓		
13	საწვავის და საპოხი მასალების კონტეინერების განთავსება მხოლოდ სპეციალურ გადებულ ადგილებში. Allocation of fuel and lubricants containers at the special dedicated place (with roofing and concrete flooring)			✓	
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")	✓			
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")	✓			
16	სამშენებლო ტერიტორიაზე ან მის გარეთ ტრანსპორტისთვის პარკირების ადეკვატური 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)	✓			
17	სამშენებლო მასალების და ნარჩენების ტრანსპორტირების დროს ავტო ტრანსპორტის სპეციალური საფარით (ბრეზენტით, ტენტითდასხვა) აღჭურვა Use tarpaulins cover during materials transportation			✓	
18	საჭიროებიდან გამომდინარე მტვრის წარმოქმნის პრევენცია. Dust generation prevention activities (when needed)	✓			
19	მუშების და ინჟინერ-ტექნიკური პერსონალის მიერ ინდივიდუალური დაცვის საშუალებების (ჩაფხუტი, ელექტი, ხელთათმანი, ჩექმები, დამცავისათვალ, დასხვა) სრულად გამოყენება. Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks, safety belts	✓			
20	სიმაღლეზე მუშაობის დროს სპეციალური დამცავი აღჭურვილობის გამოყენება. Use of special safety equipment during working at heights	✓			
21	სამშენებლო ტერიტორიის მუდმივად დალაგება და დასუფთავება. Regularly cleaning of construction territory		✓		
ობიექტის გარემოსდაცვაზე პასუხისმგებელი პირი		სახელი: Name:		ხელმოწერა/ Signature:	

(კონტრაქტორი)/Staff responsible for environment/safety at the site (contractor)	კონკრეტული გეგმა	
მშენებლობის ინსპექტორი (ზედამხედველი)/Construction site inspector (SC/Engineer)	სახელი: Name:	ხელმოწერა/Signature: 
გარემოსდაცვის სპეციალისტი (კონტრაქტორი)/Environmental Specialist (contractor)	სახელი: Name:	ხელმოწერა/Signature: 

შენიშვნა/Comment:


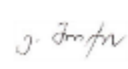

შესაბამისი ფოტომასალა/Photo Materials:



Ure-02

ყოველკვირეული გარემოსდაცვითი მონიტორინგი
Weekly Environmental Monitoring

09.10.201

Name of the Contractor and project number/lot მშენებელი კონტრაქტორის სახელი და პროექტის/ლოტის ნომერი Contract #:		JV of Ludwig Pfeiffer Hoch-und Tiefbau GmbH & Co.KG (Germany) and Arttim Construction of Waste Water Treatment Plant in Ureki P43405-ICB-URE-02
Description and Location of the Site სამშენებლო საიტის ადგილმდებარეობის აღწერა		This sub-project is located in Ureki - Shekvetili is located at the Black Sea and lies some 360 km to the west from the capital city of Tbilisi. The service level of wastewater disposal is low. There is no water supply and sanitation system in the project area and the domestic sewage from households is currently discharged into unsealed cesspits, posing a threat to ground water and to human health. The subproject is therefore urgently needed. It is designed to meet the projected demand of 2040. This will be achieved by: (i) construction of a new sewer system; and (ii) construction of a new wastewater treatment plant (WWTP). Coordinates: 730167.00 m E 4650678.00 m N
Implementing Agency განმახორციელებელი სააგენტო		შპს „საქართველოს გაერთიანებული წყალმომარაგების კომპანია“ "United Water Supply Company of Georgia", LLC
Supervisor's Identity (name, last name, contact information and signature) საზედამთებელი კომპანიის წარმომადგენლის სახელი, ვეფრა, საკონტაქტო ინფორმაცია და ხელმოწერა		სახელი: მამუკა ტაავა  Name: Mamuka Tsava
Current Stage of Civil Works სამშენებლო სამუშაოების მიმდინარე სტადუსი		მშენებარე, Civilizing
Weather Conditions ამინდის პირობები		Mostly Sunny; Rainy days - Monday and Tuesday ურეტენად მზიანი, წვიმიანი დღეები - ორშაბათი და სამშაბათი
ობიექტის გარემოს დაცვაზე პასუხისმგებელი პირი (კონტრაქტორი) Staff responsible for environment/safety at the site (contractor)		სახელი: Name: Eni Molika ხელმოწერა Signature: 
გარემოს დაცვის სპეციალისტი (კონტრაქტორი) Environmental Specialist (contractor)		სახელი: Name: Nikoloz Nephariidze ხელმოწერა Signature: 

N	Documents and Facts to be Examined შესამოწმებელი დოკუმენტები და ფაქტები	კი/yes	არა/no	ნაწილად/Partially	არ ცხებხ/N.A	შენიშვნა/ Comment
1	EMPs/SSEMPs, Protocols and Reports					
1.1	Contractor's Site specific Environmental Management Plan (SSEMP) is prepared, reviewed and approved by PIU prior to contractor commencing the works. შეუქმებელი და დამტკიცებულია საიტ-სპეციფიკური გარემოსდაცვითი მართვის გეგმა.	✓				Construction of Waste Water Treatment Plant (WWTP) in Ureki, 2015
1.2	Construction contractor has National Environmental Specialist in staff. მშენებელი კონტრაქტორს დადებული აქვს სელმეკრულუმა ადგილობრივ გარემოსდაცვითი საკითხების მართვის სპეციალისტის.	✓				
1.3	Construction contractor has International Environmental Specialist in staff. მშენებელი კონტრაქტორს დადებული აქვს სელმეკრულუმა საერთაშორისო გარემოსდაცვითი საკითხების მართვის სპეციალისტის.	✓				
1.4	Monthly environmental monitoring reports are prepared by the Contractor and submitted to the Supervision Consultant. მომზადებულია გარემოსდაცვითი მართვის გეგმის განხორციელების ყოველკვირეული ანგარიშები კონტრაქტორის მიერ და წარდგენილია კონსულტანტისთვის.	✓				
1.5	Emergency Response Plan is prepared and approved. შეუქმებელი და მიღებულია ვარაუდო სიტუაციებზე რეაგირების გეგმა.	✓				
1.6	Health and Safety Management Plan is prepared and approved. შეუქმებელი და მიღებულია უსაფრთხოების და უსაფრთხოების მართვის გეგმა და უსაფრთხოების და უსაფრთხოების მართვის სისტემის მშენებლობის დაწესებულების.	✓				
1.7	Complaints log exists on construction site. სამუშაოების კონტრაქტორის ანგარიშს სამშენებლო საიტზე.	✓				
1.8	Site inspection non-compliance notices issued and corrective action requests implemented. შეუქმებულების შეტყობინებების მოზადება და წარდგენა კონტრაქტორისთვის და მკონტრაქტორებელი ქმედებების განხორციელება.	✓				
1.9	Training/Capacity building activities undertaken as per EMP requirements and records kept of trainings. ვაფორმებული და ხელმოწერილია მუშაობის ტრენინგის ს ოქმი უსაფრთხოების და უსაფრთხოების საკითხებზე. ტრენინგის ანგარიშები მოზადებულია და ინახება საიტის კვანძზე.	✓				

2 Permits, Licenses and Contracts					
2.1	The Contractor has a permit or relevant contract from the Municipality for final disposal of construction waste/კონტრაქტორს მიღებული აქვს სამშენებლო ნარჩენების საბოლოო განთავსების ნებართვა ან შესაბამისი კონტრაქტი ადგილობრივ ორგანიზაციას.	✓			
2.2	The Contractor has a permit for final disposal of municipal waste. კონტრაქტორს მიღებული აქვს საყოფაცხოვრებო ნარჩენების საბოლოო განთავსების ნებართვა.	✓			
2.3	The Contractor has executed the contract with the licensed organization on the hand-over and disposal of hazardous waste. კონტრაქტორს გაეთრეფა აქვს სახიფათო ნარჩენების გადაცემისა და გატანის ხელშეკრულება ლიცენზირებულ ორგანიზაციასთან.	✓			
2.4	The Contractor has a license for tree felling/კონტრაქტორს გააჩნია ღვცეჩხის ხის ქრისცივის.	✓			
3 Performance of civil works					
3.1	სამშენებლო ტერიტორიის სრულად შეზღოვება Adequate fencing of construction area from all sides	✓			სამშენებლო ტერიტორია სრულად არის შეზღოვებული დროებითი, მეთოდის დონით. სამომავლოდ, იგეგმება შეტანის დონის შეზღოვება შიდა ტერიტორიაზე.
3.2	საკეტიანი შესასვლელი კარის მოწყობა, სტანდარტული გამაფრთხილებელი და საინფორმაციო ნიშნები აღჭურვა Arrangement of lockable gate with standard warning and information signs	✓			საიტზე დამონტაჟებულია საკეტიანი კარი შესაბამისი სტანდარტული გამაფრთხილებელი ნიშნებით.
3.3	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	✓			სამშენებლო ტერიტორიაზე განთავსებულია გამაფრთხილებელი და საინფორმაციო ნიშნები (15ც)
3.4	ღიად დატოვებულ თხრილებზე და ქვებზე უსაფრთხოების ღვცეჩხის, ხარკების და გამაფრთხილებელი ნიშნების განთავსება Installation of safety signs/tapes and trench side barriers around of open trenches	✓			ღიად დატოვებულ თხრილებზე გველებულია დამცავი ჯეპირი და ასევე უსაფრთხოების ღვცეჩხი.
3.5	1.5 მეტრზე მეტი სიღრმის ტრანშეებში კედლების გამაფრთხილება Strengthening of walls of the deep trenches (>1.5m) by boards		✓		სამშენებლო ტერიტორიაზე ტრანშეები უკრეფილი არ არის. რაც შესაძლებელია იქნება შეესაბამებულია დამცავი ჯეპირით.
3.6	ღიად დატოვებულ თხრილებში ღიად დატოვებულ თხრილებზე დროებითი გადასასვლელის მოწყობა Installation of proper temporary wooden/metal walkways/planks across open trenches in settlement areas			✓	სამშენებლო ტერიტორიაზე განთავსებულია დამცავი ჯეპირი.
3.7	სამშენებლო ტერიტორიაზე, საბუნების ზონაში არსებული ხეების შეზღოვება (დაზიანების თავიდან აცილების მიზნით) Protect all trees nearby construction zone to avoid its damage			✓	სამშენებლო ტერიტორიაზე უწყვეტ მარცვები არ არის.

3.8	ტოპსაფარის დროს, წიადების წაყოფიერი (დაახლოებით 20-30 სმ სისქის) ღრის მოხსნა და განვალკვებულად გროვებად შენახვა Removal of top soil (about 30 cm depth) and separately storing in appropriate place	✓			წიადების წაყოფიერი ფენა (20-30სმ) იქნა დანაწილებული და განთავსებულია სამშენებლო ტერიტორიაზე ყველა საჭირო წონის დაკვირვებით.
3.9	სამშენებლო ნარჩენების და კარბი ნარჩენი გროვების დროული გატანა/განთავსება Timely removal/disposal of construction waste and surplus waste soil	✓			გროვების კარბი ნარჩენი ტერიტორიიდან გატანილია, დარჩენილია მხოლოდ ქვებში უკანასკნელი გროვები.
3.10	სამშენებლო ტერიტორიის ღამის საათებში განათება Provide adequate lighting of construction territory	✓			ტერიტორია განათებულია. დამონტაჟებულია 4 პროექტორი, იგეგმება ტერიტორიის პერიმეტრის მთლიანი განათება.
3.11	სამშენებლო ტერიტორიის შესაბამისად მოწყობა მასალების და მოწყობილობების და დანადგარების ორგანიზებულიად განთავსება (საქონლებიდან გამომდინარე) Proper arrangement of construction site and segregation/storing of construction materials/equipment. (bring the material when required)		✓		ტერიტორიაზე მოწყობილია სასაწყობო მუხრის სადაც განთავსებულია მასალები და დანადგარები.
3.12	სამშენებლო ტერიტორიაზე საწყობის და საბინო მასალების დაღვრის შედეგების საღვცეჩხადი ნარჩენების (ქვამა, ნახრები, მკრეფი ნიშის აგვი და სხვა) ხელმისაწვდომობა Availability of proper fuel/oil spill response items (sand, sawdust, special containers) at the construction site		✓		სამშენებლო ტერიტორიაზე საწყობის დაღვრის შედეგებში უწყვეტად არის WASH ის უსაფრთხო და ასევე განთავსებულია 2 (200 ლტ) კონტეინერი დამინტერესებული წიადების განთავსებულად.
3.13	საწყობის და საბინო მასალების კონტეინერების განთავსება მხოლოდ სპეციალურ გადახურულ ადგილებში Allocation of fuel and lubricants containers at the special dedicated place (with roofing and concrete flooring)	✓			საწყობის და საბინო მასალები განთავსებულია სპეციალურად მოწყობილ, ზედასაფარის, გადახურულ ადგილას.
3.14	სამშენებლო ტერიტორიაზე საყოფაცხოვრებო ნარჩენებისთვის თავისებური 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")	✓			ტერიტორიაზე განთავსებულია 4 ცალი თავისებური კონტეინერი საყოფაცხოვრებო ნარჩენებისთვის, შესაბამისი წარწერით, ქართულ და ინგლისურ ენაზე.
3.15	სამშენებლო ტერიტორიაზე სახიფათო ნარჩენებისთვის თავისებური 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")	✓			სახიფათო ნარჩენებისთვის მოწყობილია სპეციალური გადახურული ნაგებობა, სადაც განთავსებულია 2 ც 200ლტ კონტეინერი შესაბამისი ნიშნებით ქართულ, ინგლისურ ენაზე.
3.16	სამშენებლო ტერიტორიაზე ან მის გარეთ ტრანსპორტისთვის პარკინგის 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)	✓			პარკინგის ადგილი მოწყობილია სამშენებლო ტერიტორიის გარეთ, დაახლოებით 15 მანქანისთვის, სადაც განთავსებულია შესაბამისი ნიშანი (P).
3.17	სამშენებლო მასალების და ნარჩენების ტრანსპორტირების დროს ავტოტრანსპორტის სპეციალური საფარიანი (მრუტე/ტოტი, ტენტ/დაფარვა) აღჭურვა	✓			სამშენებლო მასალების და ნარჩენების ტრანსპორტირება ხდება იმეთადავ, ყველა წონის დაკვირვებით.

	Use tarpaulins cover during materials transportation					
3.18	საწირობიდან გამომდინარე მტერის წარმოქმნის პრევენცია Dust generation prevention activities (when needed)	✓				გზაზე წარმოქმნილი მტერის პრევენცია ხორციელდება იმიტომ, რომ არსებული წყლის ავზები, რომელიც განთავსებულია შესაბამის სატრანსპორტო საშუალებაზე და ჩვეულებრივად ხდება ვახს მარწყვა.
3.19	მუშების და ინჟინერ-ტექნიკური პერსონალის მერ ინდივიდუალური დაცვის საშუალებების (ჩაბუტები, კოლეტი, ხელთათმანი, ჩექმები, დამცავი სათავსო და სხვა) სრულად გამოყენება Ensure that all workers are provided with and use appropriate Personal Protective Equipment - helmets, hand gloves, boots, masks, safety belts			✓		კომპანიის პერსონალი სრულად იყენებს ინდივიდუალური დაცვის საშუალებებს როგორცაა, მაგ. ჩაბუტები, კოლეტი, ხელთათმანი, ჩექმები, დამცავი სათავსო, და ა.შ.
3.20	სიმაღლეზე მუშაობის დროს სპეციალური დამცავი აღჭურვილობის გამოყენება Use of special safety equipment during working at heights			✓		უსაფრთხოების ქაშები გამოიყენება სიმაღლეზე მუშაობის დროს.
3.21	საშენებლო ტერიტორიის მუდმივად დალაგება და დასუფთავება Regularly cleaning of construction territory	✓				ტერიტორიის დალაგება დასუფთავება ხდება ჩვეულებრივად, რასაც უზრუნველყოფს ინჟინერის მონიტორინგები
4 Monitoring Measurements						
4.1	Monitoring measurement data (air, water, soil, erosion, noise, dust, vibration, etc), წყლის, ჰაერის, ვიბრაციის, ეროზიის, ხმაურის, მტერის და წიდადის მონაცემების გაზომვების მონიტორინგი.	✓				დადებული ხელშეკრულება ეროვნულ სადენტისთან შესაბამისი გაზომვების ჩატარების შესახებ (კვარტალური)
5 Top Soil Protection						
5.1	Topsoil is stripped and stored according to standard procedures and used further for landscaping and restatement. წიდადის მოპოვების დროს დაცვა	✓				
6 Safety Measures						
6.1	The workers use all personal safety equipment required for individual technological processes (hard hats, gloves, respirators, glasses, etc). მუშები იყენებს ცალკეული ტექნოლოგიური პროცესისთვის აუცილებელ პირად დამცავ საშუალებებს (ჩაბუტები, ხელთათმანი, რესპირატორები, სათავსოები და ა.შ.)			✓		
6.2	The sites are provided with the fire fighting and emergency medical aid kits, site is fenced, site lightning, signs are installed, etc. საშენებლო ობიექტზე განთავსებულია ხანძარსაწინააღმდეგო და სასწრაფო სამედიცინო დახმარების საბაზისო ჩაბუტები, საიტი შემოღობილია, განსტობა დამატებულია, საინჟინერო დახმარებები გაკრულია და სხვა...	✓				
7 Works Completion						
7.1	After completion of main works, the site undergoes final cleanup, harmonization with outward landscape and landscaping.					შესრულება საშენებლო სამუშაოების დასრულების შემდეგ

	ძირითად სამუშაო დასრულების წარმოების ობიექტის საბოლოო დასუფთავება. ვარე ლანდშაფტიან პარკშიზება და გამწვანება.					
7.2	After completion of the operations in the quarry or its certain section, the side material is backfilled, compacted, terraced and harmonized with the landscape. კარიერის ან მისი ცალკეული უბნის გეპლუკაციის დასრულების წარმოება დეტი მასალის უკუბრუნება, კომპაქტირება, ტერასირება, და ლანდშაფტთან პარკშიზება.					შესრულება საშენებლო სამუშაოების დასრულების შემდეგ
7.3	Final Post Construction Environmental Audit/monitoring is conducted and Final Environmental Audit Report is prepared /საბოლოო გარემოს დაცვის მონიტორინგ/აუდიტი ჩატარებულია და საბოლოო გარემოსდაცვის აუდიტის ანგარიში მომზადებულია.					შესრულება საშენებლო სამუშაოების დასრულების შემდეგ
						შესრულება საშენებლო სამუშაოების დასრულების შემდეგ

ANNEX G: CORRECTIVE ACTION PLANS

URE-01

Corrective Action Plan



Minor						
No	Requirement reference	Details of non-conformity	Corrective Action Taken	Evidence provided	Date reviewed	Reviewed by
1.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	Safety rules during high-altitude works should be respected to avoid workers damage	Appropriate Scaffolds has been installed, with hardened platforms and mid rails. Working at Height is performed under permanent supervision of Site HSE Officer.	Please find photo below	07.08.2017	G. Tkemaladze
2.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	During high-altitude works special protection equipment should be used; Implementing works without special protection equipment is strictly prohibited	Harnesses will be used at the Heights. Site Management is requested not to allow person work at heights without harnesses.	---	07.08.2017	G. Tkemaladze
3.	Non-compliance Notice UREKI; Project: USIIP Contract No: URE-01 Contractor: PERI Reference: UREKI – RESERVOIR	Workers always should use complete PPE	All site staff are equipped with appropriate PPE; Site HSE Officer to ensure works are performed with all required PPE	Please find photo below	07.08.2017	G. Tkemaladze

Evidence Photos

Photo 1



Scaffold are installed for working at heights;

Photo 2



Site staff are equipped with required PPE;