

Semi-Annual Environmental Monitoring Report

Project Number: 50064-001

Loan Number: 3520-GEO

Reporting period: January – June 2020

Republic of Georgia: Batumi Bypass Road Project

Financed by the Asian Development Bank and Asian
Infrastructure Investment Bank

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Batumi, Georgia

For: The Road's Department of Ministry of Regional Development and Infrastructure of Georgia.

Endorsed by: Levan Kupatashvili, Deputy Chairman of Road's Department

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Abbreviations

| | |
|----------------|---|
| ADB | Asian Development Bank |
| APs | Affected persons |
| BOT | Batumi Oil Terminal |
| BoQ | Bill of Quantities |
| BR | Bridges |
| CBP | Concrete batching plant |
| CSCS | Consultancy Services for the Construction Supervision |
| CSC | Construction Supervision Consultant |
| CPT-SPT | Cone Penetration Test - Standard Penetration Test |
| dB | Decibel |
| EHS | Environmental Health and Safety |
| EIA | Environmental Impact Assessment |
| EIP | Environmental Impact Permits |
| EMR | Environmental Monitoring Report |
| EMP | Environmental Management Plan |
| EMS | Environmental Management System |
| ENCR | Environmental Non-Conformance Report |
| EOT | Extension of Time |
| GI | Geotechnical Investigation |
| GRC | Grievance Redress Committee |
| GRM | Grievance Redress Mechanism |
| HHs | House Holds |
| HV | High Voltage |
| IC | Interchange |
| IPC | Interim Payment Certificate |
| LARP | Land Acquisition and Resettlement Plan |
| LV | Low Voltage |
| MAL | Maximum Allowable Limit |

| | |
|--------------|---|
| OHPL | Overhead Power Line |
| PIU | Project Implementation Unit |
| POW | Programme of Works |
| PVD | Prefabricated Vertical Drains |
| RC | Reinforced Concrete |
| RD | Road's Department |
| RoW | Right of way |
| SSEMP | Site Specific Environmental Management Plan |
| TBA | To be advised |
| TOR | Terms of Reference |
| VAT | Value Added Tax |
| WPM | Weekly Progress Meeting |

1 INTRODUCTION

1.1 Preamble

1. This report represents the Bi - Annual Environmental Monitoring Review for **Batumi Bypass Road Project** for the period of January - June 2020.
2. This report is the 6th EMR for the Batumi Bypass Road Project.

1.2 Project Overview

3. Batumi Bypass Road covers the section from Makhinjauri to Chorokhi River. Total length of the road is 14.325km while the width is 14.0m. The Project Road passes through mountainous terrain and includes construction of five tunnels, three bridges, seven viaducts, nine overpasses, fifty-seven culverts and four interchanges.
4. The start section is separated from existing road to detour the villages and crosses the mountainous area by tunnels. There are tunnels and bridges to bypass the dismantled military base and mountainous area in the middle section. The end section is on flat terrain and joins the existing road while bypass the traffic area.
5. Project outline (km.-1+000 - km.13+325)

| | |
|------------------------|-------------------------|
| Classification of road | International highway |
| Design speed | $V = 100 \text{ km/hr}$ |
| Road length | $L = 14.325 \text{ km}$ |
| Road width | $B = 14 \text{ m}$ |
| Lane numbers | 2 lanes |

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

6. The 81-km Poti–Batumi–Sarpi Road (“S2” under Georgian Highway Designation) along the western coast of Georgia, located in the Adjara Autonomous Republic, is a key international highway and international transit route in Georgia. It is connected to the important towns Batumi, Poti and Kobuleti. Batumi is a major Black Sea port and a holiday resort; Poti is the largest port of Georgia; and Kobuleti is a holiday resort. Due to heavy traffic on S2, there has been significant increase in congestion and accidents particularly during the tourist season in Batumi and Kobuleti. The Government of Georgia is constructing two bypass roads around Batumi and Kobuleti to improve traffic flow from these towns.
7. The Project Road, bypassing the city of Batumi to the east, is entirely located in Khelvachauri District. The design alignment goes through the villages of Makhinjauri, Gantiadi, Kapreshumi, Salibauri, Peria, and Makhvilauri. Passing through these villages, the design alignment crosses complex landscape of multiple ravines, streams, rivers, hills and hillsides. Thirteen kilometers of road, five tunnels, 19 bridges and four interchanges are planned along the Project alignment.
8. Batumi Bypass Road Project is being co-financed by the Asian Development Bank (ADB) and the Government of Georgia. The Project is classified as category A for the environment under ADB’s Safeguard Policy Statement (2009) so that a full Environmental Impact Assessment Report and a Resettlement Plan were prepared for the Project.

Picture 1. Project Location Map



| | |
|-----------------------------------|---|
| Employer | Roads Department (RD) of the Ministry of Regional Development and infrastructure of Georgia |
| Funding Source | Asian Development Bank Asian Infrastructure Investment Bank |
| The Engineer | SMEC International Pty Ltd |
| Contractor | JV Polatyol & Mapa |
| Letter of Acceptance | 06.07.2017 |
| Signing date of Contract | 29.08.2017 |
| Commencement Date of Works | <ul style="list-style-type: none"> • 14 March 2018: section km6+700 – km12+830 • 24 May 2018: section km1+750 – km2+250 • 15 Oct 2018: sections km0+00 – km0+650 and km2+250 – km6+700 |

| | |
|------------------------------------|---|
| | <ul style="list-style-type: none"> • 30 April 2019: section km 0+850 - km 1+750 • 21 October 2019: section km12+830 – km 13+325 (except land plot C/C 05.35.22.723) <p>Excluding Sections:</p> <ol style="list-style-type: none"> 1. km -1+000 – km0+000 2. km0+650 – km0+850 |
| Contract Period | 900 days |
| Original Completion date | 30.08.2020 |
| Expired time | 21.5 months |
| Remaining time | 9.5 months |
| Defects Notification Period | 3 years |
| Contract Price (GEL) | 329,630,734.78 GEL (VAT included) |

2.2 Project Contracts and Management

Table 1. Project Information

9. The Contract for CSCS was awarded to SMEC International Pty Ltd on September 2017 for three phases of the project:
- Phase 1** – Design review, to be completed in a period of three months. The Design Review Report was completed and submitted to RD on 26 December 2017.
- Phase 2** – Construction supervision and contract administration. The construction period is for 900 days.
- Phase 3** – Defects Notification Period, three years.
10. The TOR for the CSCS Contract contains the following tasks for the Environmental Specialists:
- a. Ensure that the provisions of the approved Environmental Management Plan are reflected in the Contractor’s Specific Environmental Management Plan (CSEMP) prior to its acceptance by the Engineer, the Employer and ADB, and thereafter ensure that the Contractor complies in every respect with the provisions of the CSEMP;
 - b. Make sure that approved Environmental Management Plan is reflected in the Consultant’s CSEMP and further compliance of the Contractor.
 - c. Develop an environmental auditing protocol for the construction period, regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. These reports will be included as an annex to the Consultant’s Monthly Report;
 - d. Develop a program for hands-on training of Contractor’s staff in implementing the CSEMP.

11. Contact details of the main organisations involved in the Project relating to Environmental Safeguards, including lender, borrower, Main Contractor/s and significant sub-contractors are given in **Table 2**.

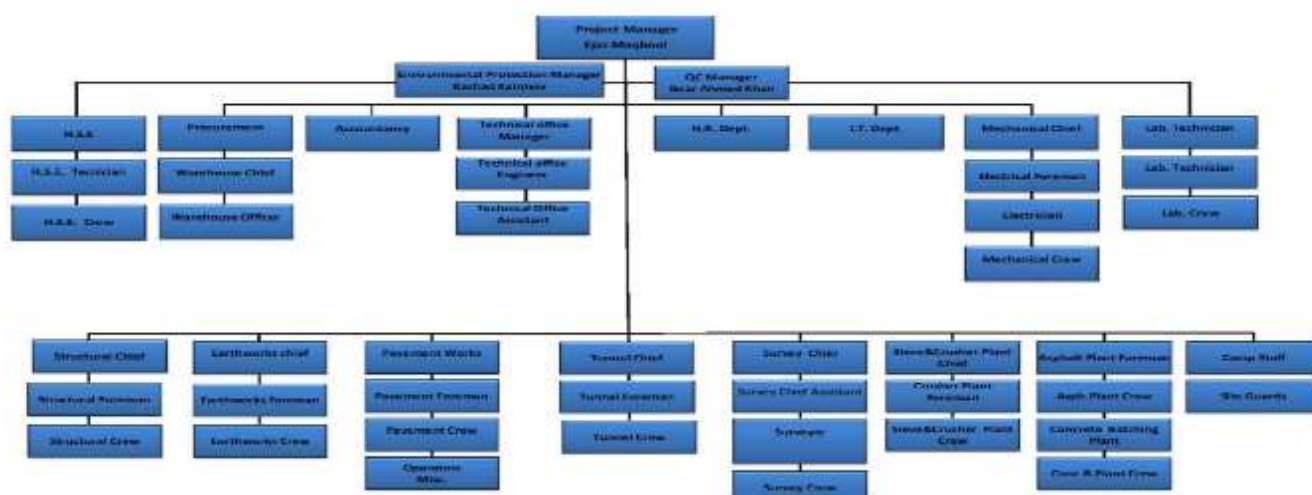
Table 2. Main organizations involved in Project implementation

| | |
|---|--|
| Asian Development Bank | <p>Shanny Campbell Senior Transport Specialist E-mail: scampbell@adb.org</p> <p>Nurlan Djenchuraev Environmental Specialist E-mail: ndjenchuraev@adb.org</p> <p>Keti Dgebuadze – RETA/ADB International Environmental Consultant E-mail: ketdgeb@yahoo.com</p> <p>Nino Nadashvili Associate Safeguards Officer Georgia Resident Mission E-mail: nnadashvili@adb.org</p> |
| Asian Infrastructure Investment Bank | <p>Ghufran Shafi - Senior Investment Operations Specialist</p> <p>Roberto Salgado – Investment Operations Specialist E-mail: Roberto.salgado@aiib.org</p> |
| Road's Department | <p>Gia Sopadze Head of Environmental Division Tel: (+995) 599 93 92 09 E-mail: sopgia@hotmail.com</p> <p>Luiza Bubashvili Environmental Safeguard Consultant under ADB & EIB Financed Projects Tel: (+995) 595 21 91 41 E-mail: Likabubashvili@yahoo.com</p> |
| PolatYol & Mapa Joint Venture | <p>Rashad Kerimov International Environmental Specialist Tel: (+994) 504 48 18 48, (+995) 591 06 37 51 E-mail: Kerimov_rashad@yahoo.com</p> <p>Ayaz Abdurahmanov Health, Safety & Traffic Manager Tel: (+995) 591 26 73 94 E-mail: Ayaz.abdurahmanov@polatyol.com</p> |
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| | |
|--------------------------|---|
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12. Under the Contract, the Contractor shall comply with all applicable national, provincial and local environmental laws and regulations as well as applicable respective standards under the Contract. The Contractor shall:
- (a) Establish an operational system for managing environmental impacts,
 - (b) Develop the Environmental Management Plan (EMP) by identifying environmental risks arising from the Works, the mitigation measures to be applied, and monitoring to be carried out,
 - (c) Implement the required mitigation measures and monitoring,
 - (d) take any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the EMP, and
 - (e) Submit quarterly reports on the carrying out of such measures to the Engineer.
13. Polatyol & Mapa Joint Venture Project Manager, Mr. Ejaz Maqbool has responsibility for all environmental aspects of construction work undertaken. He will be responsible for strictly monitoring that Polatyol & Mapa Joint Venture services site management team conforms to all environmental aspects in accordance with Polatyol & Mapa Joint Venture environmental access policy and safety plan.
14. Responsibility for daily management for environmental monitoring and implementation of the SSEMP is given to the Environmental Protection Manager Mr. Rashad Karimov. He has direct authority from the Project Manager to give instruction to all site staff regarding environmental issues. The project organization chart for key management staff is provided in **Figure 1**.

Figure 1. Contractor's Project Management Staff



2.3 Project Activities during Current Reporting Period

15. The Actual Progress of Works over the reporting period from January 2020 to June 2020 was 15.62% against Planned 19.72%. Total Project Progress to end of June 2020 is 44.10% against Planned progress of 86.88% which gives a lag of 42.78%.
16. The Engineer had discussions with the Contractor and the Employer. Meeting between the ADB, the Employer, the Engineer and the Contractor took place on 3rd March 2020 and the Progress was discussed in detail. The Contractor agreed to increase the Manpower and Plant/Equipment to increase the progress for completion of the Works by 30 June 2021 as per their revised POW/EOT June 2021 and make a revision to their initial Program as soon as possible.
17. In early May, some open issues were finalized and on 19 May 2020, the Engineer send a determination to the Contractor as an Interim Extension to December 2020. The Engineer considered some of the pending issues as well as claims/counterclaims from the parties that might offset the 10-month delay that was identified by the Engineer after analysing the Contractor's EOT Claim No. 1. The Engineer decided that it was most appropriate to issue Interim Extension of Time to provide some certainty in the short term and time for resolving the pending issues.
18. The Engineer further determined that any final extension of time related to EOT Claim No. 1 shall not be less than four months, and should take into account whether or not the Contractor (on or around December 2020) has demonstrated the ability to increase its rate of progress in accordance with the revised Programme of Works (POW) .
19. This POW is presently being monitored by the Engineer on a weekly basis and have already made some correspondences to the Contractor to highlight some lags already building up in the revised POW and requesting the Contractor to address the issues. The Engineer still awaits the Financial Forecasting for the new Baseline Programme from the Contractor, and this has been discussed with the Contractor at numerous Weekly Progress Meetings. The Contractor promised to submit the Financial Forecasting Program in the first week of July 2020.
20. During the reporting period, G-Systems, the Utilities Sub Contractor continued with the relocation of the Electrical and Gas Utilities. However, the works for the relocation of High Voltage Lines and 500mm Gas Pipelines were suspended as the materials were not delivered on site during the reporting period.

21. On 23 January 2020, meeting took place on Batumi Oil Terminal (BOT) issue with G-Systems, BOT representative, Contractor, Engineer and the Employer's representative. During this meeting, the Sub-Contractor was given permission to enter the BOT territory from 1 February 2020 for preparatory works before the Construction permit is obtained. Later, Sub-Contractor requested assistance regarding the procurement of materials. After several discussions, the Contractor promised to assist and stated that would provide a Bank Guarantee to allow the Procurement of the Items. Some of the preparatory works were finalized, however the works have been suspended since mid-March 2020 until the end of June 2020 as there were not any materials available on site to initiate the major relocation works.
22. Since the Meeting on 3rd March 2020, the Contractor began the piling works at Tunnel No. 4 Exit Cut and Cover Section and continues Works until the end of reporting period.
23. The Contractor also continues the NATM works in Tunnels No. 3 and Tunnel No. 4 during the month of June 2020, however the Progress still has to be improved as it is not in accordance with their submitted Revised POW, which was submitted mid-March 2020. The Engineer notified the Contractor to take the necessary action to bring the Tunnels progress back on track and a detailed review of the progress is communicated every month in writing to the Contractor. At the current rate of progress NATM for Tunnel No. 3 will be completed 19 December 2020 and for Tunnel No. 4 completed 6 September 2020. The Contractor must achieve more excavated Quantities i.e. cubic metre, for both the upper and lower benches of excavation per day.
24. The Contractor has been instructed to provide a Method Statement (MS) for the breakthrough Tunnel No. 4 (Exit), this MS to be submitted in July.
25. Concerning Tunnel No. 1 Exit the Contractor was given verbal approval of their Design Submittal on 12th March but until May 2020, no work was carried out at the Tunnel portal, this mainly due to the lack of a Piling Rig. A Piling Rig had been sent to Turkey for maintenance with its operator. The operator was not allowed back to Georgia due to the COVID 19 Virus. The Engineer informed the Contractor to check locally the availability of a piling machine. The Contractor then mobilized the piling machine locally. Even though the design was approved 31 March 2020, the Contractor did not begin piling Works before 16 May 2020. Through the month of June, there remains 30 piles and should be completed in mid-July.
26. The Employer has given approval on 28 April 2020 to the Contractor's Design of Tunnel No. 2 Entrance Portal, and the plot of land that was in dispute at the Portal area has now been resolved on 29 June 2020 and the Contractor has been informed to begin the Works with constructing access road and mobilization of piling machine for installation of the piles as in accordance with the approved Design.
27. The Contractor submitted the Design proposal for Tunnel No. 2 Exit Portal on 5 May 2020 and approval was given by the Employer on the 17 June 2020.
28. The Bridge Works are progressing. The Contractor used the 400T crane to place the beams Bridges 12/13, 3 spans, P6 to Abutment No 2. The works continue with the concreting of the deck spans for Bridge No. 12-13. Bridges No. 7 and No. 6B beams installation completed during the month of April. Work continued in May with Piling, construction of foundations and columns for Bridges No. 3 and No 4.

29. The assembly of the launching girder has yet to begin and should have been in operation at the end of April 2020 so that the Bridges are completed in time as in accordance with their revised POW. The erection of the launching girder was hindered by the COVID-19 Virus as the border with Turkey is closed and the technicians to assemble the launching girder could not enter Georgia. In mid-May a Government directive was given that Infrastructure construction companies could mobilize personnel to Georgia and after arrival they would be quarantined for 2 weeks. The assembly of launching girder system commenced on deck slab of Bridge No.12-13 P6-A2. The Contractor has prepared all necessary documents for the launching girder technicians' arrival to Georgia with the assistance of the Employer. The Contractor expects that the technicians should arrive in first week of July, and then would take maximum 2 weeks quarantine.
30. During April 2020, the Contractor's progress with the installation of the stone columns continued at a slow pace, as there have been residents' complaints living nearby, creating interference and stopping the Works due to the vibrations and noise generated by the stone column rigs. The Contractor along with the Employer have made measurements of the vibrations and all the measurements are within the specified limits. The Employer tries to assist the Contractor to resolve these issues with the residents living nearby the stone column area.
31. The stone columns for the section Km 12+100 to Km 12+600 was completed in May 2020 and the SPT and CPT tests have been carried out and the results were satisfactory.
32. The Contractor has begun working on different sections of the Embankment at Interchange No. 3 and the main corridor, but again more Plant and labour is required to progress the Works and these activities are falling behind the Contractor's revised POW. The Contractor has been informed at the Weekly progress meetings, as well as in written communication to progress the Works with the mobilization of adequate resources. The Engineer has written to the Contractor to procure Plant and Equipment within Georgia (if possible) as the summer weather, in particular, allows good progress with Earthworks.
33. Progress of works carried out during the reporting period is summarized in **Table 3** below:

Table 3. Construction progress

| N | WORK DESCRIPTION | DIMENSION | DESIGN | ACTUAL | % | NOTE |
|---|---|-----------|----------|---------|-------|------|
| I. Setting Out and Site Clearance | | | | | | |
| Basic topography and detailed setting out | | | | | | |
| 1 | For main road | km | 14.325 | 13.125 | 91.62 | |
| | for ramps and secondary roads | km | 10.858 | 8.287 | 76.32 | |
| | Site cleaning | ha | 76.80 | 36.37 | 47.35 | |
| | Cutting trees of more than 0.1 m diameter | piece | 1,908.00 | 6,502.0 | 340.8 | |

| N | WORK DESCRIPTION | DIMENSION | DESIGN | ACTUAL | % | NOTE |
|---|---|----------------|------------|-----------|--------|----------------------|
| | Demolition of walls | m ³ | 244.00 | 509.23 | 208.00 | |
| | Demolition of buildings | m ³ | 92,700.00 | 47,260.85 | 50.98 | |
| II. Earthworks | | | | | | |
| 2 | Topsoil removal | m ³ | 56,000.00 | 5,679.82 | 10.14 | |
| | Removal of unacceptable soil at any level, withdrawal at stockpile/embankment area (according to the instruction) | m ³ | 137,520.24 | 77,032.62 | 56.01 | |
| | Arrangement of embankment material to design level | m ³ | 603,734.55 | 42,398.97 | 7.02 | |
| | Provision, allocation and compaction of acceptable material from the borrow pit at weak and hollow areas | m ³ | 6,890.00 | 5,094.72 | 9.10 | |
| III. Water culverts and drainage | | | | | | |
| 3.1 | Cast-in-situ RC culvert - sq. m. 6,00 X 5,0m | piece | 10 | 3 | 30.00 | Construction process |
| | Precast RC culvert - sq.2,500 X 2,50m | piece | 3 | 0 | 0 | |
| | Precast RC pipe - d= 1,50m | piece | 28 | 1 | 3.57 | |
| | Precast RC pipe - d= 1,00m | piece | 7 | 0 | 0 | |
| | Precast RC (double) pipe - d= 2X1,50m | Piece | 2 | 0 | 0 | |
| | Metal pipe - d=0,50m | Piece | 4 | 0 | 0 | |
| | Lengthening of Cast-in-situ RC culvert - sq. m. 1,30m X 1,80m | Piece | 1 | 0 | 0 | |
| | Lengthening of Cast-in-situ RC culvert - sq. m. 1,50m X 1,50m | Piece | 1 | 0 | 0 | |
| Additional culvert | | | | | | |
| 3.2 | Cast in situ RC culvert – sq.5,000 X 2,50m | piece | 1 | 1 | 100 | |
| | Cast in situ RC culvert - sq.5,000 X 4,00m | piece | 1 | 1 | 100 | |
| Design Variation | | | | | | |
| 3.3 | Cast-in-situ RC culvert - sq.1,500 X 1,20m | piece | 1 | 1 | 100 | |

| N | WORK DESCRIPTION | DIMENSION | DESIGN | ACTUAL | % | NOTE |
|--------------------------------|--|-----------|---------|--------|-----|--------|
| | Cast-in-situ RC round culvert | piece | 2 | 2 | 100 | |
| | Cast-in-situ RC box culvert Section 2,50m X 2,50m | piece | 1 | 1 | 100 | |
| IV. Slope stabilization | | | | | | |
| RC retaining walls | | | | | | |
| 4.1 | km 0+160 - km 0+400 | m | 340.00 | 0 | 0 | |
| | km 3+941 - km 3+951 | m | 10.00 | 0 | 0 | |
| | km 9+340 - km 9+350 | m | 10.00 | 0 | 0 | |
| | km 9+470 - km 9+ 480 | m | 10.00 | 0 | 0 | |
| | km 11+ 530 - km 11+540 | m | 10.00 | 10.00 | 100 | |
| Gabion wall | | | | | | |
| 4.2 | km 0+230 - km 0+265 | m | 35.00 | 0 | 0 | CL 103 |
| | km 0+850 - km 0+904 | m | 54.00 | 0 | 0 | CL 103 |
| | km 12+475 - km 12+725 | m | 250.00 | 0 | 0 | |
| | km 12+814 | m | 50.00 | 0 | 0 | Left |
| | km 12+814 | m | 48.00 | 0 | 0 | Right |
| | km 12+831 | m | 50.00 | 0 | 0 | Left |
| | km 12+831 | m | 54.00 | 0 | 0 | Right |
| | km 13+940 - km 14+120 | m | 180.00 | 0 | 0 | |
| "Terramesh " system | | | | | | |
| 4.3 | "Terramesh " system arrangement | m | 2769.00 | 0 | 0 | |
| Design Variation | | | | | | |
| 4.4 | Slope stabilization by soil nailing at section km10+102 - km10+340 | m | 238.00 | 238.00 | 100 | |
| 4.5 | Drilled and filled RC pile wall at section km 11+ 460 - km 11+503 | m | 43.00 | 43.00 | 100 | |
| 4.6 | Reinforced concrete supporting wall at section km 11+513 - km 11+585 | m | 72 | 72 | 100 | |
| 4.7 | Drilled and filled RC pile wall at section km 9+244 - km 9+340 | m | 96 | 96 | 100 | |

| N | WORK DESCRIPTION | DIMENSION | DESIGN | ACTUAL | % | NOTE |
|--------------------|---|-----------|----------|---------|-------|--------------------------|
| 4.8 | Drilled and filled RC pile wall at section km 9+340 - km 9+440 | m | 100 | 100 | 100 | |
| 4.9 | Slope strengthening by earth anchors at section km9+440 – km9+520 | m | 80 | 0 | 0 | |
| V. Bridges | | | | | | |
| 5 | Bored piles: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A | Unit | 1,395.00 | 1118.00 | 80.14 | |
| | Pile cap: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A | Unit | 127.00 | 97.00 | 76.38 | |
| | Column: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A | Unit | 260.00 | 198.00 | 76.15 | |
| | Crossbar: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A | Unit | 112.00 | 83.00 | 74.11 | Construction in progress |
| | Back wall and wingwall: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-C: BR-6D; BR-08A | Unit | 30.00 | 18.00 | 60.00 | Construction in progress |
| | Installation RC beams: BR-01 - BR-05; BR-07 - BR-12/13; BR-14; BR-03.1: BR-06A; BR-6B; BR-6C: BR-6D; BR-08A | Unit | 604 | 174 | 28.97 | |
| | Unification of prestressed beams by cast in situ RC concrete slab | m | 4,284.0 | 369.0 | 8.61 | Construction in progress |
| VI. Tunnels | | | | | | |
| Tunnel No. 3 | | | | | | |
| 6 | Construction of pile wall system at the exit portal | | | | 100 | |
| | Soil excavation at the exit portal | | | | 100 | |
| | Tunnel excavation and installation temporary lining | m | 769.0 | 555.00 | 72.00 | |

| N | WORK DESCRIPTION | DIMENSION | DESIGN | ACTUAL | % | NOTE |
|--------------|--|---------------------|----------|----------|-------|------|
| Tunnel No. 4 | | | | | | |
| 7 | Construction of pile wall system at the exit portal | u | 227 | 190 | 83.5 | |
| | Soil excavation at the entrance portal | 1000 m ³ | 51.25 | 30.0 | 58.5 | |
| | Tunnel excavation and installation temporary lining | m | 850.0 | 750.0 | 88.00 | |
| Tunnel No. 5 | | | | | | |
| 8 | Tunnel excavation and installation of temporary lining | | | | 100 | |
| | Portal excavation | | | | 100 | |
| | Installation of waterproofing | m ² | 20,650.0 | 20,650.0 | 100 | |
| | Installation perforated PVC pipes | m | 1,084.00 | 1,084.0 | 100 | |
| | Filter concrete (C12/15) | m ³ | 8.0 | 8.0 | 100 | |
| | Cast-in-situ concrete for drainage | m ³ | 20,030.0 | 20,030 | 100 | |
| | Installation reinforcement frame | t | 323.0 | 323.0 | 100 | |
| | Tunnel lining (permanent lining) | m | 542 | 542 | 100 | |
| Tunnel No. 1 | | | | | | |
| 9 | Construction of pile system wall at the exit portal | u | 131 | 90 | 69.0 | |

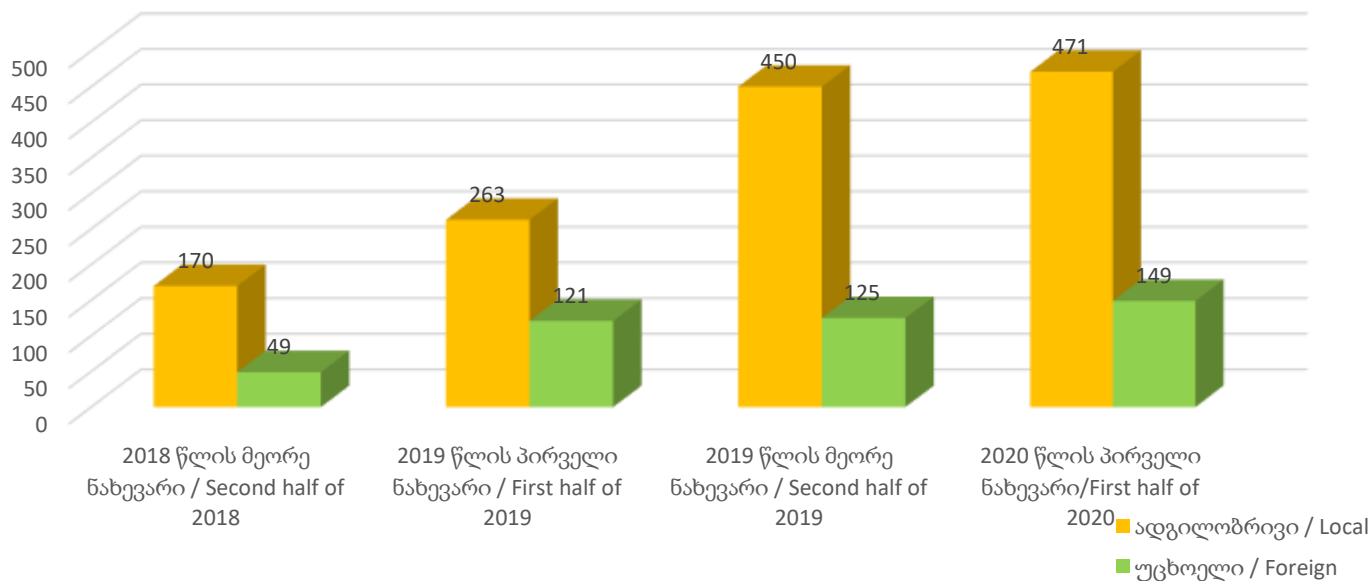
34. In January 2019, the total number of Contractor's personnel was 575, 125 of whom were foreigners and 450 were local (Georgian) employees, in June 2020 the total number of personnel is 620, 149 of whom are foreigners and 471 are locals (**Table 4**).

Table 4. Contractor's personnel as of June 2020

| N | POSITION | POLATYOL | | SUB-CONTRACTORS | | SUM |
|---|------------------|----------|-------|-----------------|-------|-----|
| | | Foreign | Local | Foreign | Local | |
| 1 | Project Manager | 1 | 0 | 0 | 0 | 1 |
| 2 | Site Manager | 1 | 0 | 0 | 0 | 1 |
| 3 | Engineer staff | 6 | 0 | 0 | 0 | 6 |
| 4 | Technical office | 3 | 2 | 0 | 0 | 5 |
| 5 | Technicians | 8 | 0 | 0 | 0 | 8 |

| N | POSITION | POLATYOL | | SUB-CONTRACTORS | | SUM |
|----|---|-----------|------------|-----------------|------------|------------|
| | | Foreign | Local | Foreign | Local | |
| 6 | Skilled Labour | 6 | 21 | 0 | 0 | 27 |
| 7 | Unskilled Labour | 0 | 38 | 0 | 0 | 38 |
| 8 | Driver | 1 | 46 | 0 | 20 | 67 |
| 9 | Operator | 7 | 18 | 0 | 17 | 42 |
| 10 | Finance & Administration | 6 | 11 | 0 | 0 | 17 |
| 11 | HSE Team | 2 | 8 | 0 | 0 | 10 |
| 12 | Environmental Manager | 1 | 0 | 0 | 0 | 1 |
| 13 | Foreman | 9 | 0 | 0 | 0 | 9 |
| 14 | Repairman | 12 | 37 | 0 | 0 | 49 |
| 15 | Security | 0 | 45 | 0 | 0 | 45 |
| 16 | Forest Expert | 0 | 0 | 0 | 0 | 0 |
| 17 | Mechanical Department | 4 | 12 | 0 | 0 | 16 |
| 18 | Designer | 0 | 0 | 5 | 0 | 5 |
| 19 | Tunnel works Subcontractor | 0 | 0 | 22 | 57 | 79 |
| 20 | Blasting works (Subcontractor) | 0 | 0 | 0 | 2 | 2 |
| 21 | Concrete works (Subcontractor) | 0 | 0 | 28 | 71 | 99 |
| 22 | Pile construction team (Subcontractor) | 0 | 0 | 8 | 17 | 25 |
| 23 | Stone column works (Subcontractor) | 0 | 0 | 0 | 16 | 21 |
| 24 | Pre-cast beam (Subcontractor) | | | 14 | 38 | 52 |
| 25 | Catering Service Subcontractor | | | 5 | 11 | 16 |
| | Total | 67 | 238 | 82 | 233 | 620 |

Figure 2. Contractor's Personnel as of 30 June 2020



2.4 Changes to Project Design and Agreed Construction methods

35. The list of Variation Orders made to the Project is outlined in **Table 5**:

Table 5. List of Variation Orders

| Variation No | Description of the Variation Orders |
|--------------|---|
| 001 | Design Change for all Bridges [to D & B by Contractor] |
| 002 | Omit PVD and replace with Stone columns |
| 003 | Slope stabilization work at tunnel No. 5 portal exit (south side) |
| 004 | Excavation with Outside Blasting and Soil Nailing System as slope protection at section KM10+101.905-KM10 +340 |
| 005 | Transportation of cut trees |
| 006 | Replacement of Terramesh System with RC Bored Piles+Wall at section KM 11+460 - KM 11+503 |
| 007 | Tunnel No. 3 Exit Portal at section KM 6+779 - KM 6+799 |
| 008 | Replacement of Terramesh System and No 30 & 31 pipe culverts at section KM 11+528 - KM 11+590 with RC retaining wall and box culverts (1.2mx1.5m); Arrangement of additional pipe culvert No 31A (d=1.5m) |
| 009 | Design change for Tunnel No.4 North (Entrance) Portal |
| 010 | CPT-SPT tests within stone column area |
| 011 | Replacement of No. 38 and No.39 RC Box Culverts (section 5.0mX6.0m, Length=90.0m) with Double RC Box Culvert, |

| | |
|------------|---|
| | Length=77.50m (section 5.0mX6.0m) (referred as Culvert No.38/39) |
| 012 | Replacement of Terramesh System with Soil Nailing and Shotcrete at sections Km 9+440 - Km 9 473 and Km 9+480 - Km 9+520 |
| 013 | Additional Geotechnical Investigations |
| 014 | Replacement of the Terramesh System with Reinforced Piled Walls at Section Km 9+340 – Km 9+440 |
| 015 | Replacement of the Terramesh System with Reinforced Piled Walls at Section Km 9+244 – Km 9+340 |

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

36. During daily monitoring, the Engineer's environmental specialists assess the environmental impacts caused by the Contractors activities and their compliance with the Project's environmental requirements.
37. Where non-compliance is detected (with the photo evidence) it is recorded, and the Contractor is informed in writing, in order to take corrective actions. If the Contractor fails to take corrective actions in a timely manner, an ENCR is issued and sent to the Contractor. The list of letters sent to the Contractor by the Engineer, where above-mentioned environmental issues are described and the copies of the ENCRs are enclosed in Annex 3 of this report.
38. The Engineer's environmental specialists prepare monthly, quarterly and semi-annual reports which are submitted to the Roads Department. These reports depict all construction activities and their environmental impact (if any).
39. Environmental specialists of the Contractor and the Engineer conduct mutual weekly site visits (as required) to monitor the situation on Site.

3.2 Site Audits

40. In the first half of 2020 (January – June) the Engineer's specialists Michael Holics, Tengiz Lagidze and Giorgi Shiukashvili conducted monitoring of the following Project sites:
 - ▶ Office and accommodation camp of the Contractor;
 - ▶ Construction camp of the Contractor;
 - ▶ Access roads to Bridges and Tunnels;
 - ▶ 4th interchange;
 - ▶ Tunnel No 1;
 - ▶ Tunnel No 2;
 - ▶ Tunnel No 3;
 - ▶ Tunnel No 4;
 - ▶ Tunnel No 5;
 - ▶ Bridges Nos 3, 4, 5, 6B, 7, 8, 8A, 9, 10, 11, 12/13;
 - ▶ Road sections;
 - ▶ Precast yard;
 - ▶ Concrete mixing plant

3.3 Issues Tracking

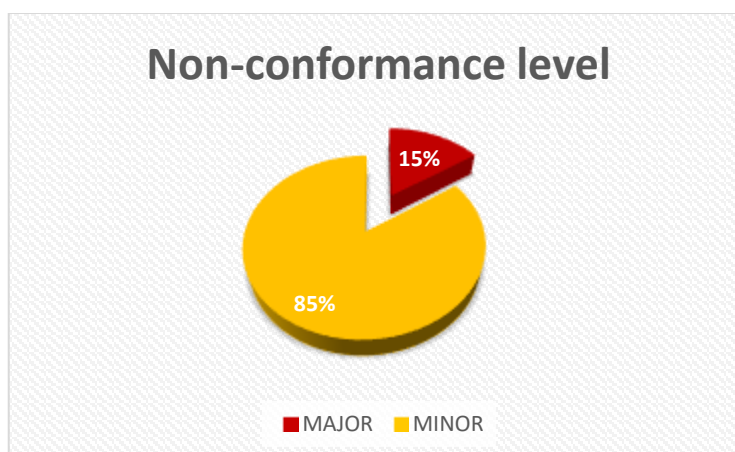
41. Issues are tracked via letters and Non-Conformance notices, which is summarized below in the Table 6 for the current reporting period.

Table 6. Summary of Issues Tracking Activity for Current Period

| | |
|-------------------------------------|--------|
| Total Number of Issues for Project | 123 |
| Number of Open Issues | 1 |
| Number of Closed Issues | 122 |
| Percentage Closed | 99.18% |
| Issues Opened This Reporting Period | 37 |
| Issues Closed This Reporting Period | 36 |

42. Further to the **Table 6**, the below **Figure 3** differentiates the issues by its' levels from Minor to Major.

Figure 3. Summary of Issues by Non-Conformance



43. From mentioned non-conformances, 1 from 37 is still remaining, 36 already closed. The latter issues have been followed up by the Environmental Non-Conformance Reports (ENCR) letters of the Engineer with established deadlines for implementation of corrective actions. More details of non-conformances are given in the **chapter 5.2, Table 15**.

44. Copies of issued ENCR's can be found in **Annex 5**.

3.4 Trends

45. Most of the violations by the Contractor are oil spills from vehicles, generators and water pumps, and polluting nearby watercourse with concrete mix and soil sediments. The latter violations are gradually fixed and after the Engineer's observations, the Contractor takes mitigation measures to resolve the issues.

3.5 Unanticipated Environmental Impacts or Risks

46. In the first half of 2020, there were not unanticipated impacts on environment.

4 RESULTS OF ENVIRONMENTAL MONITORING

4.1 Overview of Contractor’s Monitoring Conducted during Current Period

47. During the reporting period the Contractor engaged an independent laboratory “Batumis Tskali” Ltd. to conduct chemical-bacteriological analysis of water samples from rivers near the Project. The location of water sampling sites and parameters measured is in accordance with the SSEMP. The Georgian version as well as English translation of the lab results can be found in **Annex 3**. The results of water quality tests are within Georgian Maximum Permissible Concentrations (**see Table 7**).

4.1.2 Water Quality Monitoring

Table 7. Chemical and-bacteriological analysis of river water

| # | Water Quality Parameters Measured | Unit | Akhalshe ni River Km7+450 | Benze River Km4+500 | Makhvilauri River Km12+800 | Gantiadi River Km3+490 | Makhinjauri River | Makhvilauri River Km11+850 | GEO Maximum Allowable Levels |
|---|-----------------------------------|------|---------------------------|---------------------|----------------------------|------------------------|-------------------|----------------------------|------------------------------|
| 1 | Chlorides | mg/l | 26.46/9.8 ¹ | 25.48/21.56 | 19.6/ | 23.52/20.58 | 24.5/22.54 | 21.56/32.34 | - |
| 2 | Sulphates | mg/l | 48/52 | 50/22 | 42/ | 41/41 | 39/8 | 38.7/11.0 | - |
| 3 | Poliphosphate | mg/l | <0.01/<0.01 | <0.01/0.01 | <0.01/ | <0.01/<0.01 | <0.01/0.01 | <0.01/0.01 | 5 |
| 4 | Nitrate | mg/l | 0.11/0.23 | 0.13/0.38 | 0.17/ | 0.18/0.28 | 0.17/0.35 | 0.16/0.15 | 25 |
| 5 | Tutility | mg/l | 0.48/1.3 | 0.50/1.8 | 0.55/ | 0.48/0.48 | 0.50/1.2 | 0.53/1.7 | - |
| 6 | Lead | mg/l | 0.002/0.002 | 0.002/0.002 | 0.002/ | 0.002/<0.002 | 0.002/0.002 | 0.002/0.002 | 5 |
| 7 | Zinc | mg/l | 0.03/0.03 | 0.028/0.04 | 0.03/ | 0.02/0.02 | 0.03/0.04 | 0.03/0.03 | 5 |

1 Recorded values represents sampling undertaken first and second quarters.

4.1.3 Noise, Air Quality and Vibration Monitoring

48. The contractor hired an independent laboratory LEPL “Laboratory Research Centre” to conduct noise (**Annex 2 – Table 8**) and air quality analysis. Monitoring results do not exceed the national norms for atmospheric pollution as well as IFC/WB standards (**Table 9**).

49. Main source of vibration in the Project is tunnel blasting. During blasting activities, noise and vibration measured from different receptors (residential houses). The Contractor uses tunnel blasting sub-contractors equipment to monitor vibration. Vibration monitoring data are given in **Annex 4**. According to the approved SSEMP noise is measured on a quarterly basis or according to the engineers requirement in case of any claim or where there is likely to be high noise.
50. Blasting time is strictly controlled and it is allowed only during daytime to avoid disturbing of local residents and fit requirements of SEMP and EIA. Also all residents are informed about blasting time in advance by text messages and phone calls. Explosives and discharge power are reduced so as not to have any negative effect on the receptors due to vibration or noise. According to the international standards, the allowable PPV (Peak Particle Velocity) value is 25, and according to the EIA of Batumi Bypass Road Project it is limited to 5. As the discharge force is unchanged, vibration testing is conducted at different locations and ranges within PPV-5 and are acc..

Table 8: Noise measurement results

| Place of measurement | Features | Average (dB) | |
|-----------------------|--------------------|---|------------|
| | | 06.03.2020 | 05.06.2020 |
| Contractor's campsite | Intermittent noise | | 45.0 |
| Makhvilauri Km11+650 | Intermittent noise | 39.7 | 44.2 |
| Fridon Khalvashi Km13 | Intermittent noise | 60.9 | 41.7 |
| Gantiadi Km3+900 | Intermittent noise | Measurement was not conducted at that places as it was not significant at that stages and it will be changed in the future according to the activities. | 45.3 |
| Benze Km4+780 | Intermittent noise | 67 | 46.4 |
| Salibauri Km5+320 | Intermittent noise | 51.1 | 47.4 |

| | | | |
|---------------------|--------------------|------|------|
| Makhinjauri Km1+800 | Intermittent noise | 64.3 | 45.1 |
|---------------------|--------------------|------|------|

49. Certified laboratory LEPL has measured the parameters of atmospheric air at the Contractor's office/accommodation camp and several construction sites according to the construction activities. Results of tests are enclosed as **Annex 2** to the report. The result of air quality tests is acceptable considering Georgian Standards for Ambient Air Quality and do not exceed the national norms for atmospheric pollution as well as IFC/WB standards (see **Table 9**).

Table 9. Air quality parameters measured at the Contractor's office/accommodation camp

| # | Parameter Measured | Measurement result (mg/m ³) maximal unit | Georgian Standard | IFC Guideline Value (Limit (mg/m ³)) | Name of method |
|---|-------------------------------------|--|-------------------|--|-------------------|
| 1 | Nitrogen Dioxide (NO ₂) | N/A | 0.85 | 0.2 / 1 Hour 0.04 /1 Year | Tech.Reg.N435-13 |
| 2 | Hydrogen Sulfide (H ₂ S) | N/A | 0.008 | N/A | Tech.Reg.N435-13 |
| 3 | Sulfure Dioxide (SO ₂) | 0.1mg | 0.5 | 0.5 / 10 min | Tech.Reg.N435-13 |
| 4 | Carbon Monoxide CO | N/A | 5.0 | N/A | Tech.Reg.N435-13 |
| 5 | Dust (solid particles) | 0.20 | 0.3 | (*IFC does not have a standard for "inorganic dust". Instead IFC applies standards for PM _{2.5} and PM ₁₀). PM ₁₀ – 0.02/1 Year 0.05/24 Hour PM _{2, 5} -0.01/1 Year 0.025/24 Hour | GOST P ISO9096-06 |

| | | | | | |
|---|---|------|---|-----|------------------|
| 6 | Hydrocarbons (C _n H _m) | 0.01 | – | N/A | Tech.Reg.N435-13 |
|---|---|------|---|-----|------------------|

4.2 Summary of Monitoring Outcomes

50. To regularly monitor and control the parameters for air quality, level of noise and vibration, the Contractor has purchased the equipment for measuring level of noise and vibration. The Contractor has concluded the agreement with the Independent Laboratory, based on which the Independent Laboratory provides such services as measuring noise level, air and water quality.
51. The results of the monitoring show that the existing mitigation measures are effective and Air, Noise and Water quality testing results meet the norms established by the legislation of Georgia.

4.3 Material Resources Mobilisation

51. As for June 2020 following materials were mobilized on site by the Contractor:

Table 10. Material mobilization

| N | MATERIALS | UNIT | QUANTITY |
|---|-------------------------|----------------|----------|
| 1 | Gravel from Quarry Site | m ³ | 57965.72 |
| 2 | Reinforcement | T | 3799.7 |
| 3 | Cement | T | 12730.52 |
| 4 | Sand | T | - |
| 5 | Additives | T | 340 |
| 6 | Explosures | T | 69 |

52. For storing and utilization scrap material the Contractor is using construction campsite. Periodicaly it is sold to the different companies according to the market price of metal.

4.4 Waste Management

53. The Contractor has prepared a detailed plan for Waste Management. The Contractor has concluded an agreement with Batumis Tskali Ltd concerning hazardous residual water and sewage water and concluded an agreement with Sandasuftaveba Ltd for household waste disposal (see **Table 11**).

Table 11 – Waste management

| No | Domestic/Hazardous Waste & Sewage | Estimated Volume | Storage Area | Licensed Company |
|----|-----------------------------------|-------------------|-------------------|---------------------|
| 1 | Wastewater, including sewage | 24 m ³ | Camp septic tanks | LTD “Batumi Tskali” |

| | | | | |
|----|----------------------------|--------------------|----------------------------------|------------------------|
| 2 | Domestic waste | 72 m ³ | Camp and Plant Yard wastebaskets | "Sandasuftaveba" LTD |
| 3 | Used tires | 90 pcs | Workshop designated area | "Sandasuftaveba" LTD |
| 4 | Used batteries | 13 pcs | Workshop designated area | "Sandasuftaveba" LTD |
| 5 | Hydraulic and used oil | 1520 litre | Oil Change designated area | "Sandasuftaveba" LTD |
| 6 | Paints and other chemicals | 0,2 m ³ | Workshop designated area | "Sandasuftaveba" LTD |
| 7 | Chemical additive tanks | 33 pcs | Plant yard designated area | "Sandasuftaveba" LTD |
| 8 | Oil drums | 45 pcs | Plant yard designated area | LTD "San – Dasuftaveba |
| 9 | Used food oil | 13 litre | Camp separate wastebaskets | LTD "San – Dasuftaveba |
| 10 | Bulbs, cartridges | 5 pcs | Camp separate wastebaskets | LTD "San – Dasuftaveba |
| 11 | Medical waste | 0 m ³ | Camp separate wastebaskets | LTD "San – Dasuftaveba |

54. The main source that generates a large amount of waste is earthworks, specifically: excavation of the soil and rock material excavated from the tunnels. Part of the material is used for temporary service roads and excess material is disposed to the approved dumpsite.

55. The dumpsite area which is located at Airport and Kakhaberi settlement is agreed with the Ministry of Finance and Economy of Ajara and a copy of the agreement was submitted to the Engineer (**Annex 7**).

4.5 Health and Safety

56. The Contractor has appointed an accident prevention officer Mr. Ayaz Abdurahmanov at the Site, who is responsible for maintaining safety and protection against accidents. He is available on site every day.

57. The Engineer has mobilised local HS specialist – Mr. Mikheil Bagauri.

4.5.2 COVID-19

58. Due to COVID-19 the Engineer has taken the following measures to avoid the spread among its employees:

1. HSE has conducted the informational meeting with Staff to inform them about the virus and its threats, as well as preventive measures to be taken to avoid contracting COVID-19;
2. All necessary materials including Thermometers, Hand Sanitizers, Anti-Bacterial hand wash and face masks were acquired;
3. Hand sanitizer was installed at the entrance for all the visitors entering the Office;
4. Thermo screening is ensured for the visitors as well as Questionnaire is filled in;
5. Temperature Registry was created for all the Employees;
6. Employees over 65 were working from home;
7. Number of personnel working from Office has been reduced by way of working in shifts;
8. Weekly Progress and HSE meetings were conducted fortnightly with minimum number of participants to ensure physical distance of 2 meters;
These changes have not affected the supervision of the works on site.

59. Measures taken by the Contractor against COVID-19:

1. General campsite, offices, dining rooms and kitchen entrances has been provided with related notice boards and posters;
2. Disinfection process of dormitories, dining rooms, kitchen and offices, toilets and bathrooms by certified company;
3. All welfare facilities such as hand wash stations, toilets, dining rooms, kitchen etc. has been provided with necessary liquid soap and medical alcohol;
4. All kitchen staff has been supplied with necessary protective equipment;
5. All contractor and sub-contractor workers were continuously instructed about COVID-19;
6. All the vehicles have been disinfected;
7. Drivers and workers have been instructed to use protective mask;
8. Infrared thermometer has been provided at entrance of Contractor's camp.

4.5.3 Community and Worker Health and Safety

60. Descriptions of the incidents and accidents that occurred during the reporting period are described in below Table 12.

Table 12. Incidents and Accidents Log

| N | DATE | DESCRIPTION | MEASURES TAKEN | FOLLOW UP |
|---|------------|---|----------------|--|
| 1 | 19.02.2020 | It became aware to the Engineer during the training session with the Contractor that Near Miss occurred at the Pre-Cast Yard, that was not reported to the Engineer. One of the employees received an electric shock from the electrical hand tool, while working in a rainy weather. Fortunately, worker did not suffer any serious personal injury. | | The Contractor has investigated this case and reported that this information was not correct and was fabricated. |

| N | DATE | DESCRIPTION | MEASURES TAKEN | FOLLOW UP |
|---|------------|--|--|--|
| 2 | 12.03.2020 | On 12 of March, during the erection of scaffold stair tower to Bridge 13, two workers were at the structure, when the stair collapsed, causing workers to fall on the ground. As a result, both employees suffered minor injuries to ankle and back. One worker was released on the same day, and another one on the following day. The surface causing of the incident was unsafe behavior of the worker and damaged scaffolding parts. | Both employees were delivered to the hospital immediately. One employee was released on the same day and another one on the following day. | Toolbox talk was conducted to project personnel, targeting this accident as a lesson learned. The Contractor developed pre-use scaffolding inspection check list and conducted an additional training on scaffold erection safety. |
| 3 | 18.03.2020 | During the protests of the Project construction activities, local NGO representatives broke inside the Contractors camp without any permission, ignoring the Contractors security guards at the gate. The protest continued inside the Contractor's Camp accommodation facilities. The protesters were claiming that the Contractor did not take any preventative actions on fighting COVID-19, and there was a threat of spreading the virus within the workforce, that would threaten the neighbouring population. | The Contractor immediately informed local Police about this incident. | The security at the entrance of the Contractor's Camp was improved. Tourniquet device was installed at the gate. |
| 4 | 12.05.2020 | Polatyol employee Soslan Gabaidze, was working at crushing plant, when he lost his balance and fell. As a result, he received a trauma: physical injury of left-hand wrist by falling on metal bar with sharp edge. He was immediately taken to hospital for medical assistance. Following treatment, he was prescribed ten days of sick leave and allowed to go home. The Contractor has provided Soslan Gabaidze's statement and evidence of his Induction training to the Engineer. | The injured worker was immediately taken to the hospital for medical assistance. Following treatment, he was prescribed ten days of sick leave and allowed to go home. | The Contractor conducted toolbox talk at the Crushing Plant targeting housekeeping, slip/trip hazards. |
| 5 | 11.06.2020 | Revaz Jakeli, an electrical engineer of the Consultant, was at | N/A | The Contractor conducted toolbox |

| N | DATE | DESCRIPTION | MEASURES TAKEN | FOLLOW UP |
|---|------|--|----------------|---|
| | | Bridge 3, carrying out daily inspection. He was leaving the worksite with his private car, driving on a public road, when concrete was poured on his car, from P8. As a result, windshield, roof and hood were damaged. The concreting activities at Bridge 3 P8, were carried out with the violations of safety requirements. The area under the P8 which is a public road, was not enclosed with a signal tape and no flagman was in place, to control vehicles and passers-by. Hence, the risk for the pedestrians and vehicles was not considered and controlled. Nobody got injured as a result of this accident. | | talk with the Sub-Contractor's personnel regarding safety, during the activities close to the public roads and flagman's safety procedures. |

61. Trends related to the incidents and accidents are outlined below in **Table 13**.

Table 13. Health and Safety Trends

| Incident | Reporting Period (Jan - Jun 2020) | Total |
|----------------|-----------------------------------|-------|
| Near Miss | 1 | 6 |
| Accident Minor | 1 | 9 |
| Accident Major | 1 | 2 |
| Incident Minor | 1 | 8 |
| Incident Major | 1 | 4 |

4.6 Contractor's Training

60. On 26 February 2020 AIDS & Hepatitis training was carried out.
61. On 13 January, 04 February and 19 February 2020 toolbox meetings were carried out with site workers mixer drivers and other workers, on health and safety awareness and on protection of environmental value and during the different construction process and milestones.
62. On 10 June 2020, according to requirements of the Contract Specification and SSEMP, AIDS, Hepatitis & Covid-19 training was carried out in Contractor Camp
63. On 10 June 2020, according to requirements of Community Liaison Plan (CLP), public liaison meetings were conducted at Peria.

64. On 14 June 2020, according to requirements of SSEMP, toolbox meetings were carried out with all site workers and mixer drivers on health and safety awareness and on protection of environmental value and during the different construction process.

65. For details please see **Annex 6**.

4.7 Grievance Redress Mechanism (GRM) and Complaints

65. A total of 150 grievances have been submitted representing 17 categories of grievances out of which 58 grievances have been resolved as of June 30, 2020. People now mostly (39 in total) applied for inclusion of their residential structures or land plots in the Project's acquisition list, out of which 19 cases are finalized. 35 APs submitted grievances due disturbance by noise/vibration and dust out of which 30 cases are from Tunnel No. 3 and Tunnel No. 4 areas. They all will be finalized upon completion of tunnel construction activities.

66. Several grievances will be closed after completion of land acquisition procedures which was delayed due to COVID 19.

68. For other details please see **Table 14** below.

Table 14. Summary of the grievances by category

| N | Nature of grievances | No of total grievances | Result | | Remarks |
|----|--|------------------------|----------------|----------|--|
| | | | Measures Taken | Resolved | |
| 1 | Correction of ownership of affected properties | 7 | 7 | 7 | In favour of APs |
| 2 | Request of information | 9 | 9 | 9 | APs were given required information in all cases |
| 3 | Negotiations about mortgaged property | 5 | 5 | 5 | In favour of APs |
| 4 | Request to be involved in distribution of compensation for common property | 1 | 1 | 1 | Denied |
| 5 | Submission of letter | 2 | 2 | 2 | |
| 6 | Request of additional compensation | 2 | 2 | 2 | |
| 9 | Request to stop acquisition | 1 | 1 | 1 | |
| 10 | Providing information | 1 | 1 | 1 | |
| 11 | Re-measurement/re-assessment of property | 5 | 5 | 4 | Mr. Davit Beridze's case is remaining. |

| N | Nature of grievances | No of total grievances | Result | | Remarks |
|----|---|------------------------|----------------|-----------|---|
| | | | Measures Taken | Resolved | |
| 12 | Recalculation of compensation | 2 | 2 | 2 | After clarification both APs agreed to receive proposed amount |
| 13 | Inclusion in LARP | 39 | 39 | 19 | |
| 14 | Damage to infrastructure/Assets | 33 | 33 | 11 | One case is in court. 6 HHs are damaged by land bulging occurred in December. 12 cases are pending by the Contractor. |
| 15 | Disturbance by noise/vibration/dust/flood | 35 | 35 | 8 | 30 claims are from tunnel blasting zones and will be resolved after completion of tunnel blasting activities. |
| 16 | Loss of access road | 7 | 7 | 2 | |
| 17 | Employment/Recruitment | 1 | 1 | 0 | |
| | Total | 150 | 150 | 74 | |

5 FUNCTIONING OF THE SSEMP

5.1 SSEMP Review

69. SSEMP was prepared by the Contractor and submitted to the Engineer on 30 May 2018 by letter GEO/BB/103-18 is prepared in a good manner despite certain inconsistency. In March 2019 the Contractor submitted an updated SSEMP to the Engineer which considered ADB, RD and Engineer's comments. It includes all aspects of project construction and construction sites. In particular:
- Soil Management Plan;
 - Water Management Plan;
 - Dust Management Plan;
 - Noise & Vibration Management Plan;
 - Waste Management Plan;
 - Spoil Management Plan;
 - Spill Prevention Management Plan;
 - Borrow Pit Management Plan;
 - Flora and Fauna Management Plan;
 - Cultural and Archaeological Management Plan; and
 - Grievance Redress Mechanism.
70. As per Engineer's request (Letter Ref. 5015001/2/1138 dated 15 November 2019), the Contractor updated the SSEMP in and additionally prepared EMPs for Stone Column area, N2 Concrete Batching Plant and separate EMPs for each tunnel and bridge.
71. Taking in to account the unanticipated event of outbreak of pandemic infectious disease of COVID 19 causing large number of people sick and reported deaths, travel restrictions, lockdowns, workplace hazard and facility closures, CC is required to update SEMP in the third quarter of year 2020 by including one section related to COVID-19 and "COVID-19 Outbreak Management Plan" as a part of SEMP. This will include hiring of doctor and providing the PPEs, face mask, disposable hand sanitizer, and disinfecting the working areas regularly, temperature check, trainings of the workforce, provision of designated quarantine areas and maintaining social distances .

5.2 Non-Conformance Notices

71. **Table 17** lists the non-conformances which occurred during the reporting period.
72. The Contractor was informed about the pending environmental problems and an action plan was worked out to implement corrective actions and term for mitigation of non-conformances. Details are included in **Table 15**.

Table 15. Identified non-conformances

| Affected Project Component | Date | Raised Issues | Mitigation Measures | Timeframe for Completion of Mitigation Measure | Current Progress |
|-----------------------------------|-------------|--|---|---|-------------------------|
| T5 | January | Concrete contamination | Sedimentation basins should be built | January | Completed |
| Br.12 Stone column area | January | Burned tire | Should be removed to the dumpsite | January | Completed |
| BR12-13 | January | Strong contamination near oil watercourse. | Contaminated soil should be removed to the dumpsite. Generators should be repaired. | January | Completed |
| Br.12 Stone column area | January | Strong contamination near oil watercourse. | The polluted soil should be removed and taken to the dumpsite. | January | Completed |
| T5 Portal 2 | February | Former oil storage area leaks oil, contaminates soil and nearby watercourse. | The polluted soil should be removed to the dumpsite. | February | Completed |
| T5 Portal 2 | February | Surrounding territory is contaminated household and construction waste. | Territory should be cleaned from waste | February | Completed |
| T4 Portal 1 | February | Slope near oil storage/maintenance area are contaminated and contaminates watercourse. | The polluted soil should be removed to the dumpsite. | February | Completed |
| T5 Portal 1-2 | February | Sediment trap does not serve it's purpose | Traps needs additional enlargement and regular monitoring | February | Completed |
| Km11-Km13 | February | Damaged oil generators leaking oil | Generators should be repaired or replaced | February | Completed |

| Affected Project Component | Date | Raised Issues | Mitigation Measures | Timeframe for Completion of Mitigation Measure | Current Progress |
|-----------------------------------|-------------|---|--|---|-------------------------|
| Br.8 | February | Soil and Water contamination with concrete | Concrete waste should be removed | March | Completed |
| Br.5 | February | Soil contamination with concrete. | Contaminated soil should be removed | March | Completed |
| Br.8 | February | Big amount of oil spill and concrete contamination. | Oil contamination should be cleaned immediately. | March | Completed |
| Km11-Km13 | April | Oil leak from the drip tray near watercourse | Drip tray should be repaired, contaminated soil should be removed | April | Completed |
| Km12-Km13 | April | Oil spill from oil storage area near watercourse | Contaminated soil should be removed | April | Completed |
| T3 Portal 2 | April | Oil spill and waste near vehicle maintenance area. | Contaminated soil should be removed | April | Completed |
| T3 Portal 2 | April | Oil spill from damaged vehicle. | Vehicle should be repaired and contaminated soil removed to the dumpsite | May | Completed |
| Plant yard N1 | April | Overfilled waste containers. | Containers should be cleaned on time | May | Completed |
| IC-4 (Km 12+600) | May | Oil spill from drip tray | Contaminated soil should be removed. Drip tray should be arranged properly | May | Completed |
| T5 Portal 1 | May | Concrete contamination | Waste concrete should be removed | May | Completed |
| Br.3 A1 | May | Burning of waste | Should be removed to the dumpsite | May | Completed |

| Affected Project Component | Date | Raised Issues | Mitigation Measures | Timeframe for Completion of Mitigation Measure | Current Progress |
|----------------------------|------|---|--|--|------------------|
| Br.3 P2-3 40 | May | Watercourse contamination with concrete. | Contaminated soil and concrete waste should be removed. | May | Completed |
| Plant Yard N1 | May | Scattered household construction waste including oil contaminated soil. | Polluted soil and waste should be removed and disposed. | May | Completed |
| Km12-Km13 | May | Strong oil contamination from diesel generators | Polluted soil should be removed and disposed. | May | Completed |
| Km12-Km13 | May | Water channel is overfilled by sediment and there is a danger of flooding the nearby private land plots | Channel should be cleaned | May | Completed |
| T5 Portal 1 | May | The spoil material encroaching the watercourse and impeding water flow needs to be removed from the watercourse before it rains. Sediment is impacting the aquatic environment and the spoil material has created a potential flood hazard by impeding water flow in the watercourse. | Normal water flow must be restored. | May | Completed |
| T4 Portal 2 | May | Scattered plastic food containers and other household waste | Waste bin should be arranged. Training IS needed about environmental protection and waste management | May | Completed |

| Affected Project Component | Date | Raised Issues | Mitigation Measures | Timeframe for Completion of Mitigation Measure | Current Progress |
|----------------------------|------|--|--|--|------------------|
| T4 Portal 2 | May | Burning of waste at 2 locations | Training IS needed about environmental protection and waste management | May | Completed |
| T4 Portal 2 | May | Generator without drip tray spills oilproduct | Drip tray should be arranged. | May | Completed |
| Km12-Km13 | May | Oil spill from former oil storage area | It Should be covered before final dismantling and disposal | May | Completed |
| Br.12-13 | May | Construction/household waste. Burning of waste. Waste concrete poured into watercourse | Waste should be cleaned | May | Completed |
| T5 Portal 1 | May | Household waste. No waste bin | Waste bin should be arranged. | June | Completed |
| T5 Portal 1 | May | Oil spill from container | Should be removed | May | Completed |
| T4 Portal 2 | May | Household waste | Waste should be cleaned | June | |
| T1 Portal 2 | June | Surrounding territory and watercourse IS polluted by concrete | Concrete waste should be cleaned | June | Completed |
| Precast yard | June | Oil spill from oil storage area | Contaminated soil should be removed to the dumpsite | June | Completed |
| Plant yard N1 | June | Construction machines and vehicles are being repaired outside and oil spills on the ground | Vehicles should be repaired in the maintenance area | June | Completed |
| Plant yard N1 | June | Oil barrels are stored uncovered near oil storage area | Barrels should be covered or stored in the storage area | June | Completed |
| Plant yard N1 | June | Oil spill from the refuelling station | Area should be well insulated to prevent leak. | June | Completed |

73. Status of the non-conformances pending from last Bi-Annual Environmental Monitoring Report is provided in **Table 16**.

Table 16. Pending Non-Conformances from last Bi-Annual EMR

| Affected Project Component | Raised Issues | Mitigation Measures | Current Progress |
|---|--|---|-------------------------|
| Construction site | Construction site is periodically polluted with residual concrete emptied from concrete mixers and pumps | It is necessary to set up gutters in the appropriate places to purify the concrete | Completed |
| Local roads | Local roads are not protected from pollution | Road washings are required | Completed |
| T5 P1-P2 | There are no settling ponds arranged at the Portals of the Tunnels and the polluted water drained from the Tunnels flows into the water channel located nearby | Arrangement of the settlement ponds are needed. | Completed |
| CBP-2 | The place where residual concrete is stored is overfilled and the nearby territory is polluted with the concrete that is mixed with water | It is necessary to clean up the adjacent territory. | Completed |
| Stone Column Construction Site at KM12+400 | The oil products spilled from the two water pumps are causing pollution of the water channel | Provision of the pads and removal of the polluted ground to avoid the pollution is necessary. | Completed |
| IC4, Box Culvert | The oil products spilled from the water pump are causing the pollution of the water channel | Provision of the pads and removal of the polluted ground to avoid the pollution is necessary. | Completed |
| IC4 | Concrete dumpsite is filled, and adjacent area is polluted by cement water | Cleaning of the adjacent area is required | Completed |
| T5 P1-P2 | At the tunnel portals there are no sediments traps and water from the tunnel is directly flowing in the adjacent channel | Construction of sediment traps is required. | Completed |

74. While the Contractor responds to the Engineer's recommendations regarding environmental mitigation measures, and generally implements the required measures

in a timely manner, they do not take a pro-active approach to environmental management. If such an approach were adopted, many of the environmental issues from the Project could be avoided without the need to constantly take corrective actions.

6 GOOD PRACTICE

6.1 Good Practice

75. The Contractor pays good attention to improvement of personnels' hygienic conditions in accommodation campsite.
76. During dry weather, the Contractor ensures regular watering of local roads to lower dust emission.
77. The Contractor arranges traffic warning signs at crossing section with local roads for more safety.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

78. During the reporting period, work carried out by the Contractor for Environmental Protection was assessed “mostly” positively by the Engineer.
79. On 9 March 2020 the Contractor was fined by the Environmental Supervision Department of Ajara for failure in submission of harmful emissions data within the timeframe.
80. Analysis of the Contractor’s environmental protection system reveals that the Contractor pays less attention to the daily site audit which has negative impact to the environment and raises ecological problems such as pollution by waste concrete and oil spills from damaged plant and machinery.
81. Information provided in the Contractor’s monthly and quarterly reports are improved, but still needs refinement.

7.2 Recommendations

82. Construction site should be equipped with information signs indicating locations of the project – Q3, 2020.
83. The Contractor should improve environmental awareness of supervisors and workers through ongoing training – Q3, Q4, 2020.
84. The Contractor should ensure regular technical monitoring of construction vehicles and machinery – throughout the entire construction stage.
85. The contractor must arrange the necessary equipment at each new construction site before starting activities (Firefighting system, First aid kit, WC, Waste bin etc.) – Q3, 2020.
86. CC is required to update SEMP in the third quarter of year 2020 by including one section related to COVID-19 and “COVID-19 Outbreak Management Plan” as a part of SEMP – Q3, 2020

8 ANNEXES

Annex 1. Project Photos

Photo 1 Concrete spillage at Site



Photo 2 Oil-trace



Photo 3 Concrete spillage at Site



Photo 4 Oil Pollution



Photo 5 Oil Pollution



Photo 6 Pollution with Concrete



Photo 7 Household waste



Photo 8 Polluted water



Photo 9 Oil spillage



Photo 10 Waste



Photo 11 Burnt Tire



Photo 12 Precast yard



Photo 13 CBP N2



Photo 14 Br.5 construction works



Photo 15 Soil excavation



Photo 16 Br.3 construction works



Photo 17 Cleaning of construction site



Photo 18 Cleaning of construction site



Photo 19 Stone column construction



Photo 20 Precast yard



Photo 21 Oil spill at T5 P2



Photo 22 Oil spill T4 near watercourse



Photo 23 T4 P1 barriers



Photo 24 Precast yard concrete spill



Photo 25 Precast yard



Photo 26 Dirty stoplights



Photo 27 Br.8 concrete spill



Photo 28 Oil spill from diesel generators



Photo 29 Oil spill from diesel generators



Photo 30 T5 P2 oil contamination



Photo 31 T5 P2 construction waste



Photo 32 T5 P2 construction waste



Photo 33 Oil spots



Photo 34 Concrete on the ground



Photo 35 Construction waste



Photo 36 Construction waste



Photo 37 waste



Photo 38 Used tires



Photo 39 Gas pipeline



Photo 40 Plastic waste



Photo 41 Waste



Photo 42 Waste



Photo 43 Overfilled waste bin



Photo 44 Oil contamination



Photo 45 Plastic containers



Photo 46 Plastic containers



Photo 47 Oil spill



Photo 48 Broken glass



Photo 49 Oil leak



Photo 50 Concrete contamination



Photo 51 Km12-13 Oil spill



Photo 52 Km12-13 Oil spill



Photo 53 Drainage arrangement at T3 P1



Photo 54 Oil spill



Photo 55 Cleaning of construction site



Photo 56 Oil spill from construction vehicle



Photo 57 Oil spill from construction vehicle



Photo 58 Oil spill from construction vehicle



Photo 59 Overfilled container



Photo 60 Used tyres



Photo 61 Oil spill at Km12-13



Photo 62 Oil spill at Km12-13



Photo 63 Oil spill at Km12-13



Photo 64 Oil spill from construction vehicle



Photo 65 Overfilled waste container



Photo 66 Overfilled waste container



Photo 67 sedimentation basin T3



Photo 68 Concrete agent



Photo 69 Construction waste



Photo 70 Soil on the tree roots



Photo 71 Hazardous waste



Photo 72 Waste



Photo 73 Damaged tapes



Photo 74 Tree roots and stumps



Photo 75 Waste



Photo 76 Tree stumps



Photo 77 Tree stumps



Photo 78 Tree stumps



Photo 79 Roots



Photo 80 Construction waste



Photo 81 Local public road



Photo 82 Waste



Photo 83 Oil spill



Photo 84 Uncovered oil barrels



Photo 85 Household waste



Photo 86 Oil spill



Photo 87 Oil spill from oil storage area



Photo 88 T5 portal 2



Photo 89 Sediment basin T4 P1



Photo 90 Tree stumps



Photo 91 Household waste at precast yard



Photo 92 Tree stumps



Photo 93 Oil spill



Photo 94 Watercourse near IC4



Photo 95 T1 Portal 2



Photo 96 Arrangement of WC



Photo 97 Stone column works



Photo 98 IC4



Photo 99 T5 Portal 2



Photo 100 Precast yard



Annex 2. Air Quality and Noise monitoring results

Atmospheric air test

| <p>საქართველოს აჭარის ავტონომიური რესპუბლიკის საგლეხო მეურნეობის სამინისტრო, სსიპ ღამბორატაბიულრო კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა ხაბუზა ტელ: +995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p> |  | <p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA, 6010 BATUMI, TEL: +995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|------------------------|--------------------|-------------------------------------|-------------------------------------|----------------------|---------------------|-------------------------------------|--------------|---------------------|-----------------------------------|--------------|---------------------|-------------------|--------------|---------------------|------|------------------------|---------------|---|------------------------|---------------------|--|--|--|
| <p>აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №1902</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapı Sanayi Ve Ticaret” in Georgia.</p> | | <p>Date: 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The place of sampling, date: Batumi, Makhvilauri region 11+500km 04.06.2020 11.05</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of sample entry in the laboratory: 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi, Makhvilauri region 11+500km 04.06.2020 and Lepi – Laboratory Research Center, Batumi Sameba, 04.06.2020- 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample № (identification)</th> <th>Research parameter</th> <th>Measurement result</th> <th>Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Appeal №:138 Registration №:1902</td> <td>Nitrogen dioxide (NO₂)</td> <td>0.1mg/m³</td> <td>Tech. Reg. 435-2013</td> </tr> <tr> <td>Hydrogen sulfide (H₂S)</td> <td>Not detected</td> <td>Tech. Reg. 435-2013</td> </tr> <tr> <td>Sulfur dioxide (SO₂)</td> <td>Not detected</td> <td>Tech. Reg. 435-2013</td> </tr> <tr> <td>Carbon oxide (CO)</td> <td>Not detected</td> <td>Tech. Reg. 435-2013</td> </tr> <tr> <td>Dust</td> <td>0.22 mg/m³</td> <td>ISO 9096-2017</td> </tr> <tr> <td>Hydrocarbons (C₆H₆)</td> <td>0.01 mg/m³</td> <td>Tech. Reg. 435-2013</td> </tr> </tbody> </table> | Sample № (identification) | Research parameter | Measurement result | Method of research | Appeal №:138 Registration №:1902 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg. 435-2013 | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg. 435-2013 | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg. 435-2013 | Carbon oxide (CO) | Not detected | Tech. Reg. 435-2013 | Dust | 0.22 mg/m ³ | ISO 9096-2017 | Hydrocarbons (C ₆ H ₆) | 0.01 mg/m ³ | Tech. Reg. 435-2013 | | | |
| Sample № (identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | |
| Appeal №:138 Registration №:1902 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg. 435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg. 435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg. 435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Carbon oxide (CO) | Not detected | Tech. Reg. 435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Dust | 0.22 mg/m ³ | ISO 9096-2017 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrocarbons (C ₆ H ₆) | 0.01 mg/m ³ | Tech. Reg. 435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> | | | <p>F. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | |
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|--|---|--|

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The Protocol of the Test №1903

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia. Date: 05.06.2020

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhinjauri Settlement 1+950 04.06.2020 11:50

Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 04.06.2020 15:20

Place and date of performance of laboratory activity: Batumi Makhinjauri Settlement 1+950km 04.06.2020 and Lepl – Laboratory Research Center, Batumi Sameba. 04.06.2020 -05.06.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|------------------------------------|---|--------------------|---------------------|
| Appeal №:139 Registration №1903 | Nitrogen dioxide (NO ₂) | Not detected | Tech. Reg .435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 |
| | Dust | 0,18mg/m3 | ISO 9096-2017 |
| | Hydrocarbens (C ₆ H ₆) | Not detected | Tech. Reg .435-2013 |

The result spreads only on the presented sample.

Responsible performer specialist:
 Head of the Testing Laboratory:



J. Tsetskhladze
 E. Antonishvili

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The Protocol of the Test №1904

Name of the customer and contact information; Branch of foreign enterprise „JSC Pofat Yel Yapi Sanayi Ve Ticaret” in Georgia. Date:05.06.2020

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Gantiadi 3+900 km 04.06.2020 12:27

Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 04.06.2020 15:20

Place and date of performance of laboratory activity: Batumi, Gantiadi 3. 900 km 04.06.2020 and Lepl – Laboratory Research Center, Batumi Sameba, 04.06.2020- 05.06.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|------------------------------------|---|------------------------|---------------------|
| Appeal №:140 Registration №1904 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 |
| | Dust | 0,21 mg/m ³ | ISO 9096-2017 |
| | Hydrocarbons (C ₆ H ₆) | 0,01 mg/m ³ | Tech. Reg .435-2013 |

The result spreads only on the presented sample

Responsible performer specialist:



J. Tsatskhladze

Head of the Testing Laboratory:

E. Antonishvili



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| <p style="text-align: center;">საქართველო</p> <p>აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samehalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA, 6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samehalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|------------------------|---------------------------|--------------------|--------------------|--------------------|------------------------------------|-------------------------------------|----------------------|---------------------|-------------------------------------|--------------|---------------------|-----------------------------------|--------------|---------------------|-------------------|--------------|---------------------|------|------------------------|---------------|---------------------|------------------------|---------------------|
| <p>სამუშაოების ნიშნობა / ACCREDITATION CERTIFICATE: GAC-TL-0168 (00.11.17 - 20.11.21); GAC-TL-0219 (6.10.18-20.11.21)</p> <p style="text-align: center;">The Protocol of the Test №1905</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p> | | <p>Date: 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The place of sampling, date: Batumi, Sameba region km 4+700 04.06.2020 13:00</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of sample entry in the laboratory: 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi, Sameba region km 4+700 04.06.2020 and Lepl – Laboratory Research Center, Batumi Sameba, 04.06.2020 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Sample № (identification)</th> <th style="width:30%;">Research parameter</th> <th style="width:20%;">Measurement result</th> <th style="width:20%;">Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="6" style="vertical-align: top;"> Appeal №:141 Registration №1905 </td> <td>Nitrogen dioxide (NO₂)</td> <td style="text-align: center;">0.1mg/m³</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Hydrogen sulfide (H₂S)</td> <td style="text-align: center;">Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Sulfur dioxide (SO₂)</td> <td style="text-align: center;">Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Carbon oxide (CO)</td> <td style="text-align: center;">Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Dust</td> <td style="text-align: center;">0,24 mg/m³</td> <td>ISO 9096-2017</td> </tr> <tr> <td>Hydrocarbons (CnHm)</td> <td style="text-align: center;">0,01 mg/m³</td> <td>Tech. Reg .435-2013</td> </tr> </tbody> </table> | | | | Sample № (identification) | Research parameter | Measurement result | Method of research | Appeal №:141 Registration №1905 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | Dust | 0,24 mg/m ³ | ISO 9096-2017 | Hydrocarbons (CnHm) | 0,01 mg/m ³ | Tech. Reg .435-2013 |
| Sample № (identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | |
| Appeal №:141 Registration №1905 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Dust | 0,24 mg/m ³ | ISO 9096-2017 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrocarbons (CnHm) | 0,01 mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskivadze</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> | | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | |
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საქართველო
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აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21
 The Protocol of the Test №1906

Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapi Sanayi Ve Ticaret” in Georgia. Date: 05.06.2020

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Salibauri Settlement 5+300 km 04.06.2020 13:00

Method of sampling and/or transportation: The sample is taken accordingly specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 04.06.2020 15:20

Place and date of performance of laboratory activity: Batumi Salibauri Settlement 5+300 km 04.06.2020 and Lepl – Laboratory Research Center, Batumi Sameba, 04.06.2020-05.06.2020

| Sample № (identification) | Research parameter | Measurement result | Method of research |
|------------------------------------|--|------------------------|---------------------|
| Appeal №:142 Registration №1906 | Nitrogen dioxide (NO ₂) | 0,1mg/m ³ | Tech. Reg .435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 |
| | Dust | 0,22 mg/m ³ | ISO 9096-2017 |
| | Hydrocarbons (C ₆ H ₆ m) | 0,01mg/m ³ | Tech. Reg .435-2013 |

The result spreads only on the presented sample

Responsible performer specialist:

Head of the Testing Laboratory:



J. Tseiskhladze

E. Antonishvili

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აქრედიტაციის მოქმედი: ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21
 The Protocol of the Test №1907

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yupi Sanayi Ve Ticaret” in Georgia. Date: 05.06.2020

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Garadoki 7+500 km 04.06.2020 14:00

Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 04.06.2020 15:20

Place and date of performance of laboratory activity: Batumi, Garadoki 7+500 km 04.06.2020 and Lepl – Laboratory Research Center, Batumi, Sameba. 04.06.2020-05.06.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|------------------------------------|-------------------------------------|------------------------|---------------------|
| Appeal №:143 Registration №1907 | Nitrogen dioxide (NO ₂) | Not detected | Tech. Reg .435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 |
| | Sulfur dioxide (SO ₂) | 0,1mg/m ³ | Tech. Reg .435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 |
| | Dust | 0,19 mg/m ³ | ISO 9096-2017 |
| | Hydrocarbons (CnHm) | 0,01 mg/m ³ | Tech. Reg .435-2013 |

The result spreads only on the presented sample




Responsible performer specialist:

Head of the Testing Laboratory:

J. Tsetskhadze

E. Antonishvili

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|--|--|---|------------------------|--------------------|-----------------------------------|-------------------------------------|--------------|---------------------|-------------------------------------|--------------|---------------------|-----------------------------------|----------------------|---------------------|-------------------|--------------|---------------------|------|------------------------|---------------|---------------------|-----------------------|---------------------|--|--|--|
| <p>აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAC-TL-0268 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18, 20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №1901</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Potat Yol Yapi Sanayi Ve Ticaret” in Georgia.</p> | | <p>Date: 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The place of sampling, date: Batumi, Opizrebi 97 camp area 04.06.2020 10:30</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of sampling and/or transportation: The sample is taken accordingly a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of sample entry in the laboratory: 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi Opizrebi 97 camp area 04.06.2020 and LepL – Laboratory Research Center, Batumi Sameba 04.06.2020-05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample № (Identification)</th> <th>Research parameter</th> <th>Measurement result</th> <th>Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Appeal №137 Registration №1901</td> <td>Nitrogen dioxide (NO₂)</td> <td>Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Hydrogen sulfide (H₂S)</td> <td>Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Sulfur dioxide (SO₂)</td> <td>0.1mg/m³</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Carbon oxide (CO)</td> <td>Not detected</td> <td>Tech. Reg .435-2013</td> </tr> <tr> <td>Dust</td> <td>0.20 mg/m³</td> <td>ISO 9096-2017</td> </tr> <tr> <td>Hydrocarbons (CnHm)</td> <td>0,01mg/m³</td> <td>Tech. Reg .435-2013</td> </tr> </tbody> </table> | Sample № (Identification) | Research parameter | Measurement result | Method of research | Appeal №137 Registration №1901 | Nitrogen dioxide (NO ₂) | Not detected | Tech. Reg .435-2013 | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 | Sulfur dioxide (SO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | Dust | 0.20 mg/m ³ | ISO 9096-2017 | Hydrocarbons (CnHm) | 0,01mg/m ³ | Tech. Reg .435-2013 | | | |
| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | |
| Appeal №137 Registration №1901 | Nitrogen dioxide (NO ₂) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfur dioxide (SO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Dust | 0.20 mg/m ³ | ISO 9096-2017 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrocarbons (CnHm) | 0,01mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> |  | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | |
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აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21

The Protocol of the Test №837

Date: 06.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia.

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Fridon Khalvashi st. 13+000 km 05.03.2020 13:15

Method of sampling and/or transportation: The sample is taken according to the GOST R ISO 9096-2006 by a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 05.03.2020 16:15

Place and date of performance of laboratory activity: Batumi, Fridon Khalvashi st. 13+000 km 05.03.2020 and Lepl – Laboratory Research Center, Batumi, Sameba 05.03.2020-06.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|-------------------------------------|------------------------|----------------------|
| Appeal №82 Registration №837 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg. 435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg. 435-2013 |
| | Sulfur dioxide (SO ₂) | 0.1mg/m ³ | Tech. Reg. 435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg. 435-2013 |
| | Dust | 0,32 mg/m ³ | GOST R ISO 9096-2006 |
| | Hydrocarbons (CnHm) | 0,01 mg/m ³ | Tech. Reg. 435-2013 |

The result spreads only on the presented sample

Responsible performer specialist:

Head of the Testing Laboratory:



J. Tsetskhladze

E. Antonishvili

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|---|---|--|---|
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| <p>აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | |
| <p>The Protocol of the Test №840</p> | | | |
| <p>Date: 06.03.2020</p> | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia.</p> | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | |
| <p>The place of sampling, date: Batumi, Makhinjauri region 1+800 km 05.03.2020- 14:33</p> | | | |
| <p>Method of sampling and/or transportation: The sample is taken according to the Gost R ISO 9096-2006 by a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | |
| <p>Date of sample entry in the laboratory: 05.03.2020 16 : 15</p> | | | |
| <p>Place and date of performance of laboratory activity: Batumi Makhinjauri region 1+800 km 05.03.2020 and LepI – Laboratory Research Center, Batumi Sameba, 05.03.2020 -06.03.2020</p> | | | |
| <p>Sample № (Identification) Appeal №85 Registration №840</p> | <p>Research parameter Nitrogen dioxide (NO₂) Hydrogen sulfide (H₂S) Sulfur dioxide (SO₂) Carbon oxide (CO) Dust Hydrocarbons (CnHm)</p> | <p>Measurement result 0.1.mg/m3 Not detected Not detected Not detected 0.23mg/m3 0.02mg/m3</p> | <p>Method of research Tech. Reg .435-2013 Tech. Reg .435-2013 Tech. Reg .435-2013 Tech. Reg .435-2013 GOST R ISO 9096-2006 Tech. Reg .435-2013</p> |
| <p>The result spreads only on the presented sample</p> | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> |
| <p>Head of the Testing Laboratory:</p> |  | | <p>E. Antonishvili</p> |
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| <p style="text-align: center;">საქართველო</p> <p>აჭარის ავტონომიური რესპუბლიკის სოფლის-მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010 ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA</p> <p style="text-align: center;">AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------------------------|---------------------------|--------------------|--------------------|--------------------|---------------------------------|--|----------------------|---------------------|--|--------------|---------------------|--|--------------|---------------------|--------------------------|--------------|---------------------|-------------|------------------------|----------------------|----------------------------|------------------------|---------------------|
| <p>აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №838</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date: 06.03.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The place of sampling, date: Batumi, Benze region km 4+780 05.03.2020 13:35</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of sampling and/or transportation: The sample is taken according to the GOST R ISO 9096-2006 by a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of sample entry in the laboratory: 05.03.2020 16:15</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi, Benze region km 4+780 05.03.2020 and Lepl – Laboratory Research Center, Batumi Sameba, 05.03.2020 -06.03.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Sample № (Identification)</th> <th style="width: 25%;">Research parameter</th> <th style="width: 25%;">Measurement result</th> <th style="width: 25%;">Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="6" style="vertical-align: top;">Appeal №83 Registration №838</td> <td style="text-align: center;">Nitrogen dioxide (NO₂)</td> <td style="text-align: center;">0.1mg/m³</td> <td style="text-align: center;">Tech. Reg .435-2013</td> </tr> <tr> <td style="text-align: center;">Hydrogen sulfide (H₂S)</td> <td style="text-align: center;">Not detected</td> <td style="text-align: center;">Tech. Reg .435-2013</td> </tr> <tr> <td style="text-align: center;">Sulfur dioxide (SO₂)</td> <td style="text-align: center;">Not detected</td> <td style="text-align: center;">Tech. Reg .435-2013</td> </tr> <tr> <td style="text-align: center;">Carbon oxide (CO)</td> <td style="text-align: center;">Not detected</td> <td style="text-align: center;">Tech. Reg .435-2013</td> </tr> <tr> <td style="text-align: center;">Dust</td> <td style="text-align: center;">0.30 mg/m³</td> <td style="text-align: center;">GOST R ISO 9096-2006</td> </tr> <tr> <td style="text-align: center;">Hydrocarbons (CnHm)</td> <td style="text-align: center;">0.02 mg/m³</td> <td style="text-align: center;">Tech. Reg .435-2013</td> </tr> </tbody> </table> | | | | Sample № (Identification) | Research parameter | Measurement result | Method of research | Appeal №83 Registration №838 | Nitrogen dioxide (NO₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | Hydrogen sulfide (H₂S) | Not detected | Tech. Reg .435-2013 | Sulfur dioxide (SO₂) | Not detected | Tech. Reg .435-2013 | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | Dust | 0.30 mg/m ³ | GOST R ISO 9096-2006 | Hydrocarbons (CnHm) | 0.02 mg/m ³ | Tech. Reg .435-2013 |
| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | |
| Appeal №83 Registration №838 | Nitrogen dioxide (NO₂) | 0.1mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrogen sulfide (H₂S) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfur dioxide (SO₂) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| | Dust | 0.30 mg/m ³ | GOST R ISO 9096-2006 | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrocarbons (CnHm) | 0.02 mg/m ³ | Tech. Reg .435-2013 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> |  | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | |
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|---|--|--|-----------------------------|
| <p>საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p> |  | <p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA, 6010 BATUMI, TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p> | |
| <p>აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | |
| <p>The Protocol of the Test №839</p> | | | |
| <p>Date: 06.03.2020</p> | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia.</p> | | | |
| <p>Description of the samples, condition: Atmospheric air</p> | | | |
| <p>The place of sampling, date: Batumi, Salibauri region 5+320 km 05.03.2020 - 14:13</p> | | | |
| <p>Method of sampling and/or transportation: The sample is taken according to the GOST P ISO 9096-2006 by a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.</p> | | | |
| <p>Date of sample entry in the laboratory: 05.03.2020 16:15</p> | | | |
| <p>Place and date of performance of laboratory activity: Batumi Salibauri region 5+320 km 05.03.2020 and Lepl – Laboratory Research Center, Batumi, Sameba, 05.03.2020-06.03.2020</p> | | | |
| <p>Sample № (Identification)</p> | <p>Research parameter</p> | <p>Measurement result</p> | <p>Method of research</p> |
| <p>Appcal №84 Registration №839</p> | <p>Nitrogen dioxide (NO₂)</p> | <p>Not detected</p> | <p>Tech. Reg. 435-2013</p> |
| | <p>Hydrogen sulfide (H₂S)</p> | <p>Not detected</p> | <p>Tech. Reg. 435-2013</p> |
| | <p>Sulfur dioxide (SO₂)</p> | <p>0.1 mg/m³</p> | <p>Tech. Reg. 435-2013</p> |
| | <p>Carbon oxide (CO)</p> | <p>Not detected</p> | <p>Tech. Reg. 435-2013</p> |
| | <p>Dust</p> | <p>0.27 mg/m³</p> | <p>GOST P ISO 9096-2006</p> |
| | <p>Hydrocarbons (CnHm)</p> | <p>0,01mg/m³</p> | <p>Tech. Reg. 435-2013</p> |
| <p>The result spreads only on the presented sample</p> | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> |
| <p>Head of the Testing Laboratory:</p> | | | <p>E. Antonishvili</p> |
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საქართველო
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The Protocol of the Test №836

Date: 06.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia.

Description of the samples, condition: Atmospheric air

The place of sampling, date: Batumi, Makhvilauri region 11+650 05.03.2020 12:42

Method of sampling and/or transportation: The sample is taken according to the GOST R ISO 9096-2006 by a specialist of LEPL – Laboratory Research Center, who is responsible for sampling and transportation.

Date of sample entry in the laboratory: 05.03.2020 16:15

Place and date of performance of laboratory activity: Makhvilauri region 11+650 05.03.2020 and Lepl – Laboratory Research Center, Sameba, 05.03.2020-06.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|-------------------------------------|------------------------|----------------------|
| Appeal №81 Registration №836 | Nitrogen dioxide (NO ₂) | 0.1mg/m ³ | Tech. Reg .435-2013 |
| | Hydrogen sulfide (H ₂ S) | Not detected | Tech. Reg .435-2013 |
| | Sulfur dioxide (SO ₂) | Not detected | Tech. Reg .435-2013 |
| | Carbon oxide (CO) | Not detected | Tech. Reg .435-2013 |
| | Dust | 0,26 mg/m ³ | GOST R ISO 9096-2006 |
| | Hydrocarbons (CnHm) | Not detected | Tech. Reg .435-2013 |

The result spreads only on the presented sample

Responsible performer specialist:

J. Tsetskhladze


Head of the Testing Laboratory:




E. Antonishvili








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Noise test

| <p>საქართველო აქარის ავტონომიური რესპუბლიკის ხოვლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010 ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p> |  | <p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA, 6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|------------------------|------------------|----------|---|-------------|----------------------------|--------------------|--------|---------------|--|--------------------|---------|---------------|------------------------|--------------------|--------|---------------|---------------------|--------------------|--------|---------------|------------------------------|--------------------|--------|---------------|----------------------------------|--------------------|---------|---------------|----------------------|--------------------|---------|---------------|
| <p>აკრედიტაციის მოქმედა ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №1900</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapı Sanayi Ve Ticaret“ in Georgia, Batumi Opizrebi Str.97</p> | | <p>Date: 05.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Noise level determination</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi Opizrebi Str.97</p> | | <p>04.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Measurement area</th> <th style="width: 20%;">Features</th> <th style="width: 20%;">Test result (Sounds max. level LA max. db A)</th> <th style="width: 30%;">Test result</th> </tr> </thead> <tbody> <tr> <td>Contractor camp area 10:42</td> <td>Intermittent noise</td> <td>45.0db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Makhvilauri Settlement 11+500 11:18</td> <td>Intermittent noise</td> <td>44.2 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Makhinjaur 1+950 12:03</td> <td>Intermittent noise</td> <td>45.1db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Gantidi 3+900 12:40</td> <td>Intermittent noise</td> <td>45.3db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Benze settlement 4+700 13:12</td> <td>Intermittent noise</td> <td>46.4db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Salibauri Settlement 5+300 13:40</td> <td>Intermittent noise</td> <td>47.4 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Gerodoki 7+500 14:10</td> <td>Intermittent noise</td> <td>46.4 db</td> <td>GOST 23337-14</td> </tr> </tbody> </table> | | | | Measurement area | Features | Test result (Sounds max. level LA max. db A) | Test result | Contractor camp area 10:42 | Intermittent noise | 45.0db | GOST 23337-14 | Makhvilauri Settlement 11+500 11:18 | Intermittent noise | 44.2 db | GOST 23337-14 | Makhinjaur 1+950 12:03 | Intermittent noise | 45.1db | GOST 23337-14 | Gantidi 3+900 12:40 | Intermittent noise | 45.3db | GOST 23337-14 | Benze settlement 4+700 13:12 | Intermittent noise | 46.4db | GOST 23337-14 | Salibauri Settlement 5+300 13:40 | Intermittent noise | 47.4 db | GOST 23337-14 | Gerodoki 7+500 14:10 | Intermittent noise | 46.4 db | GOST 23337-14 |
| Measurement area | Features | Test result (Sounds max. level LA max. db A) | Test result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contractor camp area 10:42 | Intermittent noise | 45.0db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Makhvilauri Settlement 11+500 11:18 | Intermittent noise | 44.2 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Makhinjaur 1+950 12:03 | Intermittent noise | 45.1db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gantidi 3+900 12:40 | Intermittent noise | 45.3db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benze settlement 4+700 13:12 | Intermittent noise | 46.4db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salibauri Settlement 5+300 13:40 | Intermittent noise | 47.4 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gerodoki 7+500 14:10 | Intermittent noise | 46.4 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | | <p>J. Tsetskhladze</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> |  | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p style="text-align: center;">საქართველოს აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა: samebalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA, 6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL: samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------------------|----------|--|-------------|------------------------------------|--------------------|--------|---------------|--|--------------------|---------|---------------|-----------------------------|--------------------|-------|---------------|-----------------------------------|--------------------|---------|---------------|----------------------------|--------------------|---------|---------------|
| <p style="text-align: center;">აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18-20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №835</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date: 06.03.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition: Noise level determination</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place and date of performance of laboratory activity: Batumi Opizrebi Str.97 05.03.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Measurement area</th> <th style="width: 25%;">Features</th> <th style="width: 25%;">Test result (Sounds max. level LA max. db A)</th> <th style="width: 25%;">Test result</th> </tr> </thead> <tbody> <tr> <td>Makhvilauri Region 11+650 km 12:30</td> <td>Intermittent noise</td> <td style="text-align: center;">39.7db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Fridon Khalvashiani st 13+000 km 13:05</td> <td>Intermittent noise</td> <td style="text-align: center;">60.9 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Benze Region 4+780 km 13:48</td> <td>Intermittent noise</td> <td style="text-align: center;">67 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Salibauri Region - 5+320 km 14:00</td> <td>Intermittent noise</td> <td style="text-align: center;">51.1 db</td> <td>GOST 23337-14</td> </tr> <tr> <td>Makhinjauri 1+800 km 14:45</td> <td>Intermittent noise</td> <td style="text-align: center;">64.3 db</td> <td>GOST 23337-14</td> </tr> </tbody> </table> | | | Measurement area | Features | Test result (Sounds max. level LA max. db A) | Test result | Makhvilauri Region 11+650 km 12:30 | Intermittent noise | 39.7db | GOST 23337-14 | Fridon Khalvashiani st 13+000 km 13:05 | Intermittent noise | 60.9 db | GOST 23337-14 | Benze Region 4+780 km 13:48 | Intermittent noise | 67 db | GOST 23337-14 | Salibauri Region - 5+320 km 14:00 | Intermittent noise | 51.1 db | GOST 23337-14 | Makhinjauri 1+800 km 14:45 | Intermittent noise | 64.3 db | GOST 23337-14 |
| Measurement area | Features | Test result (Sounds max. level LA max. db A) | Test result | | | | | | | | | | | | | | | | | | | | | | | |
| Makhvilauri Region 11+650 km 12:30 | Intermittent noise | 39.7db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | |
| Fridon Khalvashiani st 13+000 km 13:05 | Intermittent noise | 60.9 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | |
| Benze Region 4+780 km 13:48 | Intermittent noise | 67 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | |
| Salibauri Region - 5+320 km 14:00 | Intermittent noise | 51.1 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | |
| Makhinjauri 1+800 km 14:45 | Intermittent noise | 64.3 db | GOST 23337-14 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The result spreads only on the presented sample</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible performer specialist:</p> |  | <p>J. Tsetskhladze</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of the Testing Laboratory:</p> |  | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | | |
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Annex 3. Water quality results

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|--|--|---|---------------------------|
| <p>საქართველო აქარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევის ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: +995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com</p> |  | <p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVEDA SAMEBA,6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com</p> | |
| <p>აგრედიტაციის მოწმობა /AGGREGATION CERTIFICATE - GAC-TL-0219 სსიპ ცენტრი 17025:2017/2018 06.04.20 - 20.11.21</p> | | | |
| <p>The Protocol of the Test №1895</p> | | | |
| <p>Date 08.06.2020</p> | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapi Sanayi Ve Ticaret“ in Georgia.</p> | | | |
| <p>Description of the samples, condition : River water 4L in Plastic Bottle</p> | | | |
| <p>Place of taking the examination sample (s), date: Batumi, Makhinjauri 1 + 950 section, Makhinjauri river. 04.06.2020 11:55-12:00</p> | | | |
| <p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure", Resolution of the Government of Georgia No. 26, January 3, 2014.</p> | | | |
| <p>Date of taking the examination sample (s): 04.06.2020 15:20</p> | | | |
| <p>Location and date of laboratory activity: LEPL Laboratory Research Center.Batumi 6010. Qveda Sameba 04.06.2020 - 08.06.2020</p> | | | |
| <p>Sample № (Identification) Registration №1895 Protocol of the Test №131</p> | <p>Research parameter</p> | <p>Measurement result</p> | <p>Method of research</p> |
| | Chlorides | 22,54 mg/l | GD 52, 24, 407-2006 |
| | Sulfates | 8,0 mg/l | COST 4389-72 |
| | Polyphosphate | <0,01 mg/l | COST 18309-2014 |
| | Nitrates | 0,35 mg/l | COST 33045-2014 |
| | Alkalinity | 1,2 mg/cq/l | COST 31957-2012 |
| | The Lead | 0,002 mg/l | COST 31870-2012 |
| | Zinc | 0,04 mg/l | COST 31870-2012 |
| <p>Results are given only for the sample (s) submitted.</p> | | | |
| <p>Responsible Artist:</p> | | <p> N. Ghachava  L. Verulidze  E. Tsivadze</p> | |
| <p>Head of Exam Lab:</p> | <p> E. Antonishvili</p> | | |
| <p>The full or partial reproduction and distribution of this protocol of the Test is inadmissible without the permission of LEPL Laboratory Research Center</p> | | | |
| <p>1/1</p> | | | |

საქართველო
 აჭარის ავტონომიური რესპუბლიკის
 სოფლის მეურნეობის სამინისტრო,
 სსიპ ლაბორატორიული კვლევითი ცენტრი
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აკრედიტაციის მოწმობა / ACCREDITATION CERTIFICATE - GAC-TL-0219 სსტ ცხრილი 17025:2017/2018 06.04.20 - 20.11.21

The Protocol of the Test №1894

Date: 08.06.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret“ in Georgia.

Description of the samples, condition : River water 4L in Plastic Bottle

Place of taking the examination sample (s), date: Batumi, Makhvilauri settlement, Makhvilauri 11 + 900 section, Makhvilauri river, 04.06.2020 10:52- 10:57

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of taking the examination sample (s): 04.06.2020 15:20

Location and date of laboratory activity: LEPL Laboratory Research Center, Batumi 6010, Qveda Sameba 04.06.2020 - 08.06.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|--|--------------------|--------------------|---------------------|
| Registration №1894 Protocol of the Test N 130 | Chlorides | 32,34 mg/l | GD 52. 24. 407-2006 |
| | Sulfates | 11,0 mg/l | COST 4389-72 |
| | Polyphosphate | <0,01 mg/l | COST 18309-2014 |
| | Nitrates | 0,15 mg/l | COST 33045-2014 |
| | Alkalinity | 1,7 mg/eq/l | COST 31957-2012 |
| | The Lead | <0,002 mg/l | COST 31870-2012 |
| | Zinc | 0,03 mg/l | COST 31870-2012 |

Results are given only for the sample (s) submitted.

Responsible Artist:




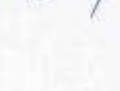

(Handwritten signatures)
 N. Ghachava
 L. Verulidze
 E. Tsvadze


Head of Exam Lab:





(Handwritten signature and blue circular stamp of the Laboratory Research Center)

E. Antonishvili

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| <p style="text-align: center;">საქართველო</p> <p>აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA</p> <p style="text-align: center;">AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA,6010 BATUMI, TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---------------------|---------------------------|--------------------|--------------------|--------------------|---|-----------|----------|---------------------|----------|-----------|--------------|---------------|------------|-----------------|----------|-----------|-----------------|------------|-------------|-----------------|----------|-------------|-----------------|------|-----------|-----------------|
| <p>აკრედიტაციის მანქაზა / ACCREDITATION CERTIFICATE - GAC/IL-0219 სსიპ ცხვინგი 17025/2017/2018 06.04.20 - 20.11.21</p> <p style="text-align: center;">The Protocol of the Test №1899</p> <p style="text-align: right;">Data: 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition : River water 4L in Plastic Bottle</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place of taking the examination sample (s), date: st. Batumi Gorodok settlement 7 + 500 section, Akhalshevi river. 04.06.2020 14:05- 14:10</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of taking the examination sample (s): 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Location and date of laboratory activity: LEPL Laboratory Research Center, Batumi 6010, Qveda Sameba 04.06.2020 - 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">Sample № (Identification)</th> <th style="width:30%;">Research parameter</th> <th style="width:20%;">Measurement result</th> <th style="width:25%;">Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="7" style="text-align: center;"> Registration №1899 Protocol of the Test №135 </td> <td>Chlorides</td> <td style="text-align: center;">9,8 mg/l</td> <td style="text-align: center;">GD 52. 24. 407-2006</td> </tr> <tr> <td>Sulfates</td> <td style="text-align: center;">10,0 mg/l</td> <td style="text-align: center;">GOST 4389-72</td> </tr> <tr> <td>Polyphosphate</td> <td style="text-align: center;"><0,01 mg/l</td> <td style="text-align: center;">GOST 18309-2014</td> </tr> <tr> <td>Nitrates</td> <td style="text-align: center;">0,23 mg/l</td> <td style="text-align: center;">GOST 33045-2014</td> </tr> <tr> <td>Alkalinity</td> <td style="text-align: center;">1,3 mg/eq/l</td> <td style="text-align: center;">GOST 31957-2012</td> </tr> <tr> <td>The Lead</td> <td style="text-align: center;"><0,002 mg/l</td> <td style="text-align: center;">GOST 31870-2012</td> </tr> <tr> <td>Zinc</td> <td style="text-align: center;">0,03 mg/l</td> <td style="text-align: center;">GOST 31870-2012</td> </tr> </tbody> </table> | | | | Sample № (Identification) | Research parameter | Measurement result | Method of research | Registration №1899 Protocol of the Test №135 | Chlorides | 9,8 mg/l | GD 52. 24. 407-2006 | Sulfates | 10,0 mg/l | GOST 4389-72 | Polyphosphate | <0,01 mg/l | GOST 18309-2014 | Nitrates | 0,23 mg/l | GOST 33045-2014 | Alkalinity | 1,3 mg/eq/l | GOST 31957-2012 | The Lead | <0,002 mg/l | GOST 31870-2012 | Zinc | 0,03 mg/l | GOST 31870-2012 |
| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Registration №1899 Protocol of the Test №135 | Chlorides | 9,8 mg/l | GD 52. 24. 407-2006 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfates | 10,0 mg/l | GOST 4389-72 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nitrates | 0,23 mg/l | GOST 33045-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Alkalinity | 1,3 mg/eq/l | GOST 31957-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | The Lead | <0,002 mg/l | GOST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Zinc | 0,03 mg/l | GOST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Results are given only for the sample (s) submitted.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Responsible Artist:</p> | | <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  N. Ghachava </div> <div style="text-align: center;">  L. Verulidze </div> <div style="text-align: center;">  E. Tsivadze </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of Exam Lab:</p> | |  E. Antonishvili | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო. სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010.კვედა სამება ტელ: +995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com</p> |  | <p>GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE. LEPL LABORATORY RESEARCH CENTRE. KVEDA SAMEBA.6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|----------------------|--------------------|---|-----------|-----------|----------------------|----------|----------|--------------|---------------|------------|-----------------|----------|-----------|-----------------|------------|-------------|-----------------|----------|------------|-----------------|------|-----------|-----------------|--|--|--|
| <p>აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAG-TL-0219 სსტ იხილეთ 17025:2017/2018 06.04.20 - 20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №1898</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: right;">Data: 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polar Yol Yapi Sanayi Ve Ticaret“ in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition : River water 4L in Plastic Bottle</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place of taking the examination sample (s), date: Salisauri settlement 5 + 400 section, 04.06.2020 13:30- 13:35</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of taking the examination sample (s): 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Location and date of laboratory activity: LEPL Laboratory Research Center,Batumi 6010. Qveda Sameba 04.06.2020 - 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Registration №1898 Protocol of the Test №134 | Chlorides | 19,6 mg/l | G.D 52. 24. 407-2006 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfates | 8,0 mg/l | COST 4389-72 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyphosphate | <0,01 mg/l | COST 18309-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nitrates | 0,31 mg/l | COST 33045-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Alkalinity | 1,6 mg/cq/l | COST 31957-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | The Lead | 0,002 mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Zinc | 0,05 mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Results are given only for the sample (s) submitted.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Responsible Artist:</p> | |  N. Ghacheva  L. Verulidze E. Tsivadze  E. Antonishvili | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of Exam Lab:</p> | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p style="text-align: center;">საქართველო აჭარის ავტონომიური რესპუბლიკის სოფლის მეურნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ჭყედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE, LEPL LABORATORY RESEARCH CENTRE, KVEDA SAMEBA,6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---------------------|---------------------------|--------------------|--------------------|--------------------|---|-----------|------------|---------------------|----------|----------|--------------|---------------|------------|-----------------|----------|-----------|-----------------|------------|-------------|-----------------|----------|-------------|-----------------|------|-----------|-----------------|
| <p>აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAC-TL-0219 სსიპ ცსრ/ცკ 17025:2017/2018 06.04.20 - 20.11.21</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Protocol of the Test №1897</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>თარიღი: 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polet Yol Yapı Sanayi Ve Ticaret” in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition : River water 4L in Plastic Bottle</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place of taking the examination sample (s), date: Batumi Benze settlement 4 + 500 section, Chaisubani river water. 04.06.2020 13:00- 13:05</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of taking and / or transporting the test sample (s): 'Wastewater Sampling Procedure'. Resolution of the Government of Georgia No. 26, January 3, 2014.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of taking the examination sample (s): 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Location and date of laboratory activity: LEPL Laboratory Research Center,Batumi 6010. Qveda Sameba. 04.06.2020 – 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Registration №1897 Protocol of the Test №133 | Chlorides | 21,56 mg/l | GD 52. 24. 407-2006 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfates | 2,2 mg/l | COST 4389-72 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyphosphate | <0,01 mg/l | COST 18309-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nitrates | 0,38 mg/l | COST 33045-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Alkalinity | 1,8 mg/eq/l | COST 31957-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | The Lead | <0,002 mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Zinc | 0,04 mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Results are given only for the sample (s) submitted.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Responsible Artist:</p> | | <p style="text-align: center;"> N. Ghachava</p> <p style="text-align: center;"> L. Verulidze</p> <p style="text-align: center;">E. Tsivadze</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of Exam Lab:</p> | | <p style="text-align: center;"> E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The full or partial reproduction and distribution of this protocol of the Test is inadmissible without the permission of LEPL Laboratory Research Center</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1/1</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| <p style="text-align: center;">საქართველო აჭარის ავტონომიური რესპუბლიკის საფლავის მუღრნეობის სამინისტრო, სსიპ ლაბორატორიული კვლევითი ცენტრი ქ.ბათუმი 6010, ქვედა სამება ტელ: + 995 (04 22) 25 13 68 ელ.ფოსტა:samebalab@gmail.com</p> |  | <p style="text-align: center;">GEORGIA AUTONOMOUS REPUBLIC OF AJARA MINISTRY OF AGRICULTURE LEPL LABORATORY RESEARCH CENTRE KVELDA SAMEBA, 6010 BATUMI. TEL: + 995 (04 22) 25 13 68 E-MAIL:samebalab@gmail.com</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|----------------------|---------------------------|--------------------|--------------------|--------------------|---|-----------|------------|----------------------|----------|----------|--------------|---------------|------------|-----------------|----------|-----------|-----------------|------------|-------------|-----------------|----------|-------------|-----------------|------|-----------|-----------------|
| <p>აკრედიტაციის მოქმედება / ACCREDITATION CERTIFICATE - GAC/PL-0219 სსიპ ცენტრი 17025:2017/2018 06.04.20 - 20.11.21</p> <p style="text-align: center;">The Protocol of the Test №1896</p> <p style="text-align: right;">Data: 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Description of the samples, condition : River water 4L in Plastic Bottle</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Place of taking the examination sample (s), date: Batumi Gantiadi 3 + 650 section, Gantiadi river. 04.06.2020 12:20- 12:25</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Date of taking the examination sample (s): 04.06.2020 15:20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Location and date of laboratory activity: LEPL Laboratory Research Center, Batumi 6010. Qveda Sameba 04.06.2020 - 08.06.2020</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">Sample № (Identification)</th> <th style="width:30%;">Research parameter</th> <th style="width:25%;">Measurement result</th> <th style="width:20%;">Method of research</th> </tr> </thead> <tbody> <tr> <td rowspan="7" style="text-align: center;"> Registration №1896 Protocol of the Test №132 </td> <td>Chlorides</td> <td style="text-align: center;">20,58 Mg/l</td> <td>GD 52. 24. 407- 2006</td> </tr> <tr> <td>Sulfates</td> <td style="text-align: center;">1,0 Mg/l</td> <td>COST 4389-72</td> </tr> <tr> <td>Polyphosphate</td> <td style="text-align: center;"><0,01 Mg/l</td> <td>COST 18309-2014</td> </tr> <tr> <td>Nitrates</td> <td style="text-align: center;">0,28 Mg/l</td> <td>COST 33045-2014</td> </tr> <tr> <td>Alkalinity</td> <td style="text-align: center;">1,3 Mg/eq/l</td> <td>COST 31957-2012</td> </tr> <tr> <td>The Lead</td> <td style="text-align: center;"><0,002 Mg/l</td> <td>COST 31870-2012</td> </tr> <tr> <td>Zinc</td> <td style="text-align: center;">0,02 Mg/l</td> <td>COST 31870-2012</td> </tr> </tbody> </table> | | | | Sample № (Identification) | Research parameter | Measurement result | Method of research | Registration №1896 Protocol of the Test №132 | Chlorides | 20,58 Mg/l | GD 52. 24. 407- 2006 | Sulfates | 1,0 Mg/l | COST 4389-72 | Polyphosphate | <0,01 Mg/l | COST 18309-2014 | Nitrates | 0,28 Mg/l | COST 33045-2014 | Alkalinity | 1,3 Mg/eq/l | COST 31957-2012 | The Lead | <0,002 Mg/l | COST 31870-2012 | Zinc | 0,02 Mg/l | COST 31870-2012 |
| Sample № (Identification) | Research parameter | Measurement result | Method of research | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Registration №1896 Protocol of the Test №132 | Chlorides | 20,58 Mg/l | GD 52. 24. 407- 2006 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sulfates | 1,0 Mg/l | COST 4389-72 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Polyphosphate | <0,01 Mg/l | COST 18309-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nitrates | 0,28 Mg/l | COST 33045-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Alkalinity | 1,3 Mg/eq/l | COST 31957-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | The Lead | <0,002 Mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Zinc | 0,02 Mg/l | COST 31870-2012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Results are given only for the sample (s) submitted.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Responsible Artist:</p> | | <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">    </div> <div style="text-align: left;"> <p>N. Ghachava</p> <p>L. Veradize</p> <p>E. Tsivadze</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Head of Exam Lab:</p> | | <p>E. Antonishvili</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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აკრედიტაციის მოწმობა /ACCREDITATION CERTIFICATE - GAC-TL-0168 (20.11.17 - 20.11.21); GAC-TL-0219 16.10.18 - 20.11.21

The Protocol of the Test №992

Date 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L-Plastic bottle

The place of sampling, date: Batumi, River 11+850 km Makhvilauri center 12.03.2020. 11:10-11:15

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: LepI – Laboratory Research Center, Batumi
 6010 Qveda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|--------------------|--------------------|--------------------|
| Appeal №992 Registration №84 | Chlorides | 21,56 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 38,7 mg/l | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,16 mg/l | GOST 33045-2014 |
| | Tutility | 0,53 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,03 mg/l | GOST P57162-2016 |

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results.

Responsible Artist:



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 2

N.Ghachava
 Q. Tsertvadze
 L. Verulidze

Head of Exam Lab:

E. Antonishvili

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The Protocol of the Test №996

Data: 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L-Plastic bottle

The place of sampling, date: Batumi, River 7+450 km Axalsheni Territory 12.03.2020 12:45-12:50

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: Lepl – Laboratory Research Center, Batumi
6010 Qyeda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|--------------------|--------------------|--------------------|
| Appeal №996 Registration №88 | Chlorides | 26,46 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 48,0 mg/l | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,11 mg/l | GOST 33045-2014 |
| | Tutility | 0,48 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,03 mg/l | GOST P57162-2016 |

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Responsible Artist:



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N.Ghachava
Q. Tsertsvadze
L. Verulidze

Head of Exam Lab:

E. Antonishvili

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The Protocol of the Test №995

Date: 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L-Plastic bottle

The place of sampling, date: Batumi, River 4+500 Benze Region 12.03.2020 12:30-12:35

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: Lepl – Laboratory Research Center, Batumi
 6010 Qveda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|--------------------|--------------------|--------------------|
| Appeal №995 Registration №87 | Chlorides | 25,48 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 50,0 mg/l | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,13 mg/l | GOST 33045-2014 |
| | Tutility | 0,50 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,028 mg/l | GOST P57162-2016 |

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

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Responsible Artist:



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 Q. Tsertsvadze
 L. Verulidze

Head of Exam Lab:

E. Antonishvili

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The Protocol of the Test №994

Data: 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret“ in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L-Plastic bottle

The place of sampling, date: Batumi, River 3+490 Gantiadi Region 12.03.2020 12:10-12:15

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: Lepl – Laboratory Research Center, Batumi
6010 Qveda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|--------------------|--------------------|--------------------|
| Appeal №994 Registration №86 | Chlorides | 23,52 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 41,0 mg/l | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,19 mg/l | GOST 33045-2014 |
| | Tutility | 0,48 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,03 mg/l | GOST P57162-2016 |

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Responsible Artist:



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E. Antonishvili

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The Protocol of the Test №993

Data : 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapi Sanayi Ve Ticaret” in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L-Plastic bottle

The place of sampling, date: Batumi, River 1+900 Makhinjauri 12.03.2020 11:45-11:50

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: Lepl – Laboratory Research Center, Batumi
 6010 Qveda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|---------------------------------|--------------------|--------------------|--------------------|
| Appeal №993 Registration №85 | Chlorides | 24,5 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 39,0 mg/l | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,17 mg/l | GOST 33045-2014 |
| | Tutility | 0,50 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,03 mg/l | GOST P57162-2016 |

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

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Responsible Artist:



N. Ghachava
 Q. Tsertsvadze
 L. Verulidze

Head of Exam Lab:

E. Antonishvili

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The Protocol of the Test №991

Date 16.03.2020

Name of the customer and contact information: Branch of foreign enterprise „JSC Polat Yol Yapı Sanayi Ve Ticaret” in Georgia. Opizrebi str. 97

Description of the samples, condition : River water 2L –Plastic bottle

The place of sampling, date: Batumi, River 12+800 Makhvilauri Region 12.03.2020 10:50-10:55

Method of taking and / or transporting the test sample (s): "Wastewater Sampling Procedure". Resolution of the Government of Georgia No. 26, January 3, 2014.

Date of sample entry in the laboratory: 12.03.2020 13: 10

Place and date of performance of laboratory activity: LepI – Laboratory Research Center, Batumi
 6010 Qveda Sameba 12.03.2020-16.03.2020

| Sample № (Identification) | Research parameter | Measurement result | Method of research |
|----------------------------------|--------------------|--------------------|--------------------|
| Appeal №:991 Registration №83 | Chlorides | 19,6 mg/l | RD 52. 24. 407-06 |
| | Sulphates | 42,0 მგ/ლ | GOST 4389-72 |
| | Polyphosphate | <0,01 mg/l | GOST 18309-2014 |
| | Nitrates | 0,17 mg/l | GOST 33045-2014 |
| | Tutility | 0,55 mg/l | GOST 31957-2012 |
| | Lead | 0,002 mg/l | GOST P57162-2016 |
| | Zinc | 0,03 mg/l | GOST P57162-2016 |

Results are given only for the sample (s) submitted. Samples and information provided for the sample (s)

By the customer and may affect the validity of the results,

Responsible Artist:



(Handwritten signature)

N.Ghachava
 Q. Tsertsvadze
 L. Verulidze

Head of Exam Lab:

E. Antonishvili

The full or partial reproduction and distribution of this protocol of the Test is inadmissible without the permission of LEPL Laboratory Research Center

Annex 4. Vibration Test Results

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: April/01/2020 Time of blast: 19.56.p.m. Blast Number: L4 68

Seismograph Make and Model: Instantel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Jambul Jintcharadze

Witness (If Any) : _____

Additional comments Blasting location at KM 8+206 Tunnel 4, NORTH MIC= 14,17 kg

Seismograph was installed at predetermined distance of L= 735 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time MicL at 19:56:27 April 1, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 2.000 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL A MMB

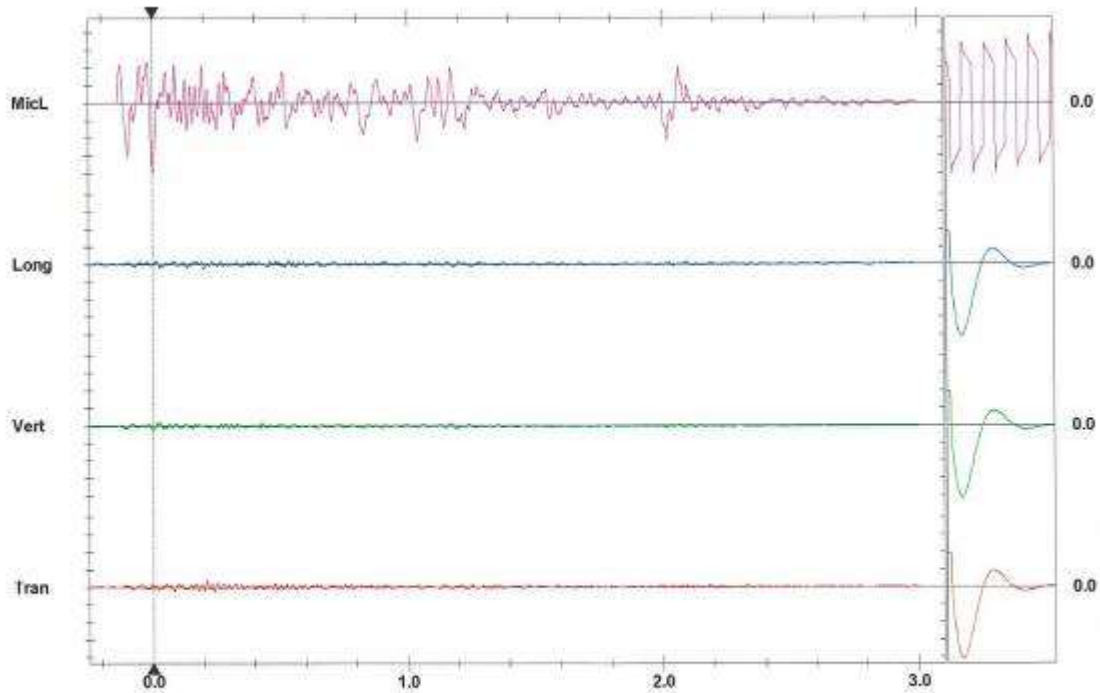
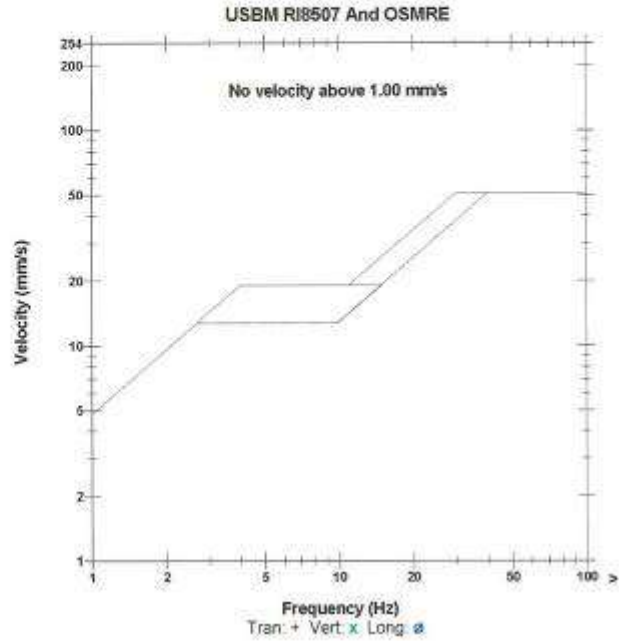
Serial Number UM 90 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20200401195627 IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
Microphone Linear Weighting
PSPL 78 2 pa.(L) at 0.004 sec
ZC Freq 17 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1431 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.757 | 0.504 | 0.441 | mm/s |
| ZC Freq | 47 | 22 | 51 | Hz |
| Time (Rel. to Trig) | 0.212 | 0.001 | 0.203 | sec |
| Peak Acceleration | 0.036 | 0.023 | 0.032 | g |
| Peak Displacement | 0.003 | 0.003 | 0.003 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.1 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.9 | |

Peak Vector Sum 0.763 mm/s at 0.212 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 20.00 pa.(L)/div
 Trigger = > <

Sensor Check

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 04/06/2020 **Time of blast:** 10:25:46 **BlastNumber:** PBR01

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : Nodar GORGADZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 6+298 Tunnel №3 MIC=19,62

Seismograph was installed at predetermined distance of L= 57 meters from the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Vert at 10:25:46 June 4, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.nmb

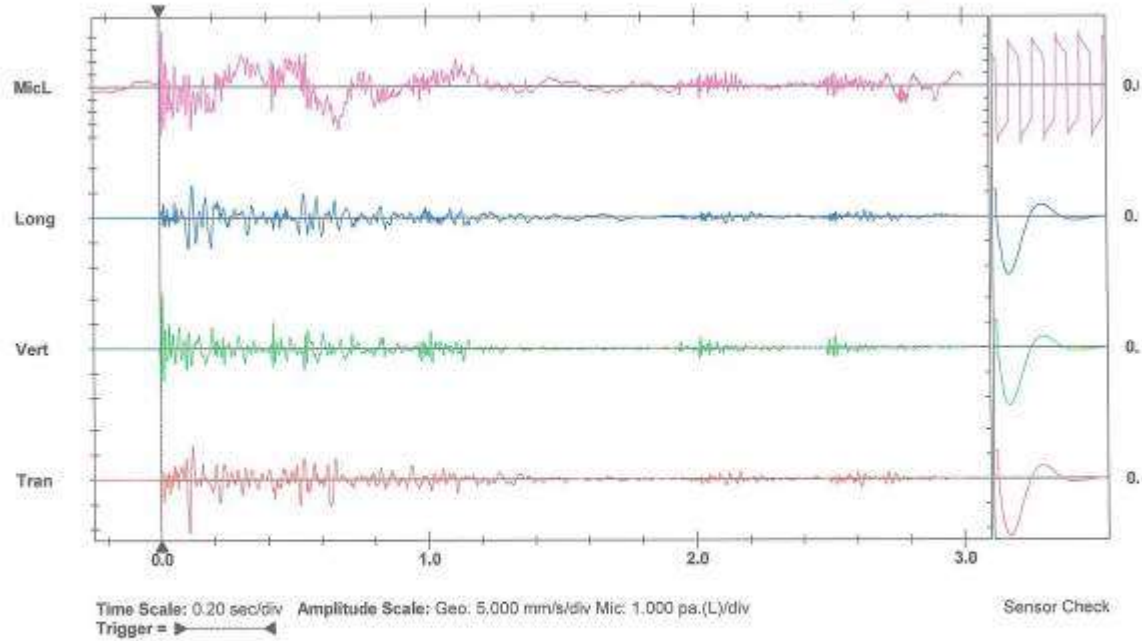
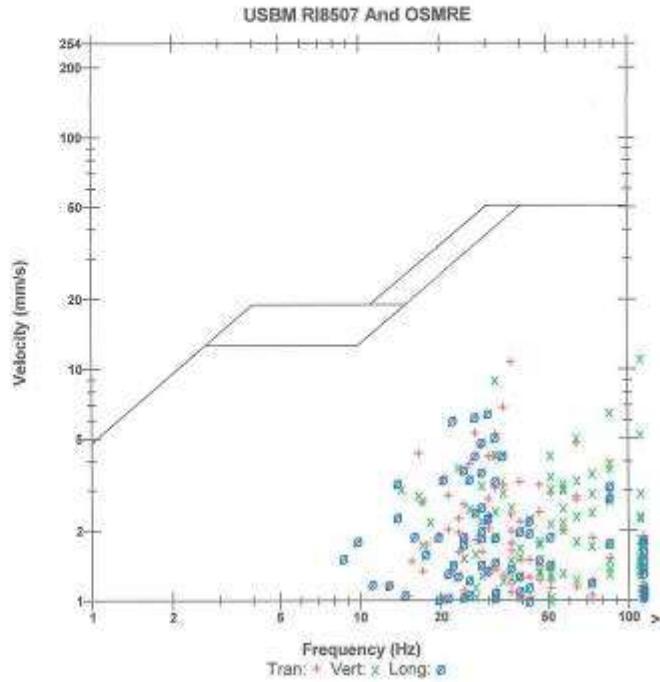
Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200604102546.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blatni Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
 Microphone Linear Weighting
 PSPL 4.465 pa.(L) at 0.013 sec
 ZC Freq >100 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1287 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 10.74 | 11.19 | 6.479 | mm/s |
| ZC Freq | 37 | >100 | 30 | Hz |
| Time (Rel. to Trig) | 0.104 | 0.008 | 0.121 | sec |
| Peak Acceleration | 0.233 | 0.625 | 0.166 | g |
| Peak Displacement | 0.044 | 0.029 | 0.039 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 5.1 | 4.6 | |

Peak Vector Sum 12.75 mm/s at 0.105 sec.



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 06/06/2020 **Time of blast:** 09:56:01 **BlastNumber:** BR011

Seismograph Make and Model: Instantel,Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : Nodar SAKANDELIDZE /B2

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 8+383 Tunnel №4 MIC=14,17

Seismograph was installed at predetermined distance of L= 100 meters from the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Tran at 09:56:01 June 6, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

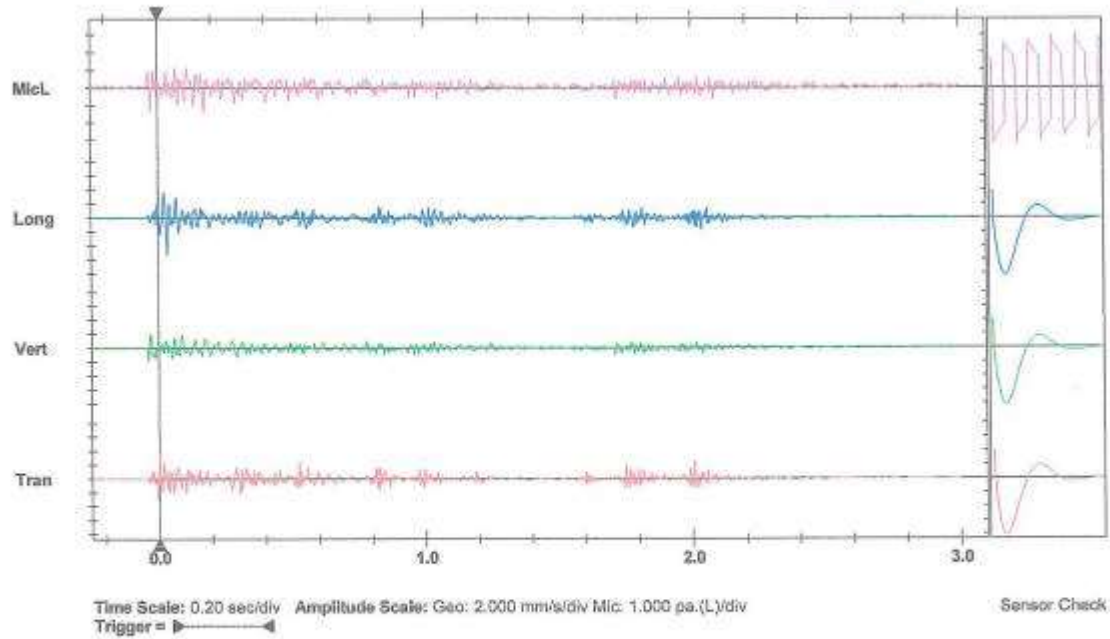
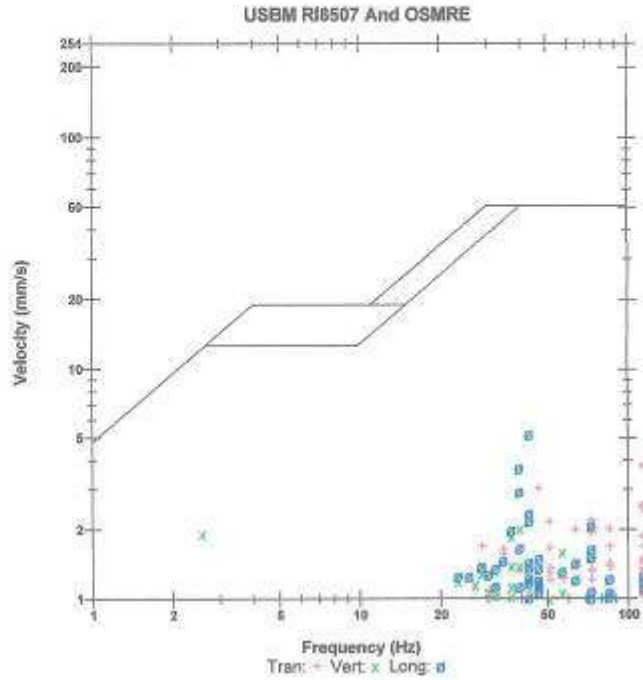
Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200606095601.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Aysz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
 Microphone Linear Weighting
 PSPL 1.381 pa.(L) at 0.173 sec
 ZC Freq 43 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1307 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 3.807 | 2.026 | 5.194 | mm/s |
| ZC Freq | >100 | 39 | 43 | Hz |
| Time (Rel. to Trig) | 0.000 | -0.030 | 0.035 | sec |
| Peak Acceleration | 0.278 | 0.100 | 0.145 | g |
| Peak Displacement | 0.007 | 0.008 | 0.016 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.8 | |

Peak Vector Sum 5.379 mm/s at 0.035 sec



| | | |
|---|---|---|
|  | Project Batumi Bypass Road Section km-1+000—km- 13+325 |  |
|---|---|---|

| | |
|--------------------------------------|------------------------------------|
| SEISMOGRAPH OPERATOR'S REPORT | |
| Client : | <u>ROADS DEPARTMENT OF GEORGIA</u> |
| Project: | <u>BATUMI BYPASS PROJECT</u> |

| | | |
|--------------------------------|---------------------------------------|----------------------------------|
| Date: <u>08/06/2020</u> | Time of blast: <u>10:06:23</u> | BlastNumber: <u>PBR02</u> |
|--------------------------------|---------------------------------------|----------------------------------|

| | | | |
|--|--|-------------------------|------------------------------|
| Seismograph Make and Model: | <u>Instantel, Micromate</u> | Serial Number: | <u>UM13228</u> |
| Trigger Source: | <u>GEO: 3.7 mm/sn</u> | | |
| Range Selected: | <u>GEO: 254 mm/sn</u> | Record Duration: | <u>3 seconds at 1024 sps</u> |
| Sensor Test Result (at set-up): | <u>passed</u> | | |
| Geophone Location : | <u>Nuri TSETSKHLADZE</u> | | |
| Witness (If Any) : | <u>(House owner)</u> | | |
| Additional comments | <u>Blasting location at KM 8+386 Tunnel №4 MIC=14,17</u> | | |
| Seismograph was installed at predetermined distance of L= 24 meters from the blasting location. | | | |
| The ground vibration was measured within the limits | | | |
| <hr/> I certify that the above listed monitoring equipment was properly set in place for the blast indicated | | | |
| Signature of seismograph operator: | | | |
| Printed name : <u>Ayaz ABDURAHMANOV</u> | | | |
| Company : <u>POLATYOL & MAPA JV</u> | | | |

Date/Time Vert at 10:06:23 June 8, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200608100623.IDFW

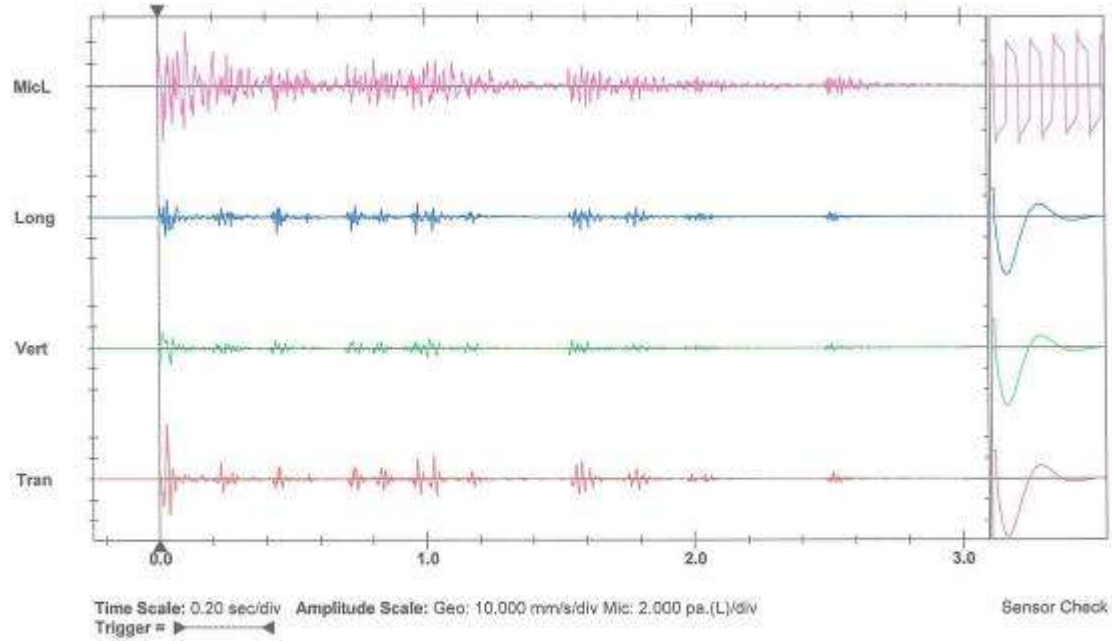
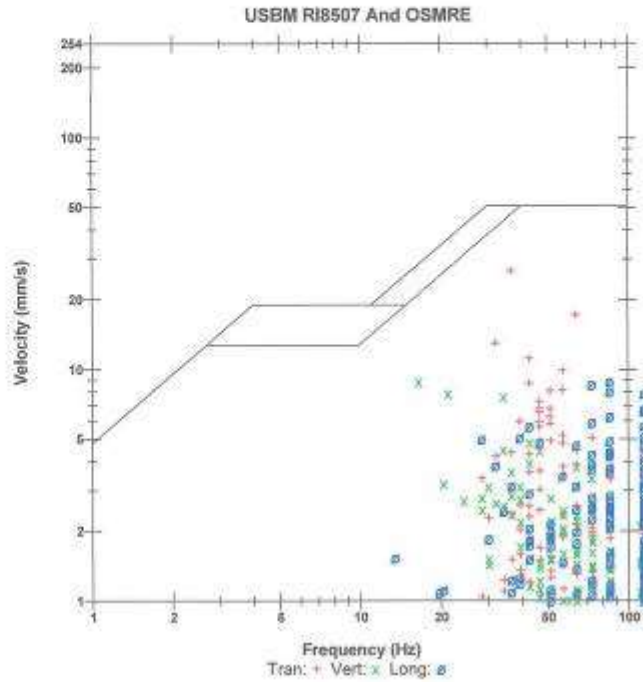
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
 PSPL 4.985 pa.(L) at 0.017 sec
 ZC Freq 32 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1256 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 26.67 | 8.843 | 8.914 | mm/s |
| ZC Freq | 37 | 17 | 85 | Hz |
| Time (Rel. to Trig) | 0.026 | 0.002 | 0.025 | sec |
| Peak Acceleration | 0.774 | 0.380 | 0.593 | g |
| Peak Displacement | 0.098 | 0.047 | 0.022 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 4.9 | 4.7 | |

Peak Vector Sum 27.84 mm/s at 0.026 sec



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 09/05/2020 Time of blast: 16.52 pm Blast Number: CL 29

Seismograph Make and Model: Instantel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Revaz Tsetskhladze

Witness (If Any) : _____

Additional comments Blasting location at KM 8+315 Tunnel 4, NORTH MIC=14.17 kg

Seismograph was installed at predetermined distance of L= 63 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV



Date/Time Vert at 16:52:09 May 9, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.98 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

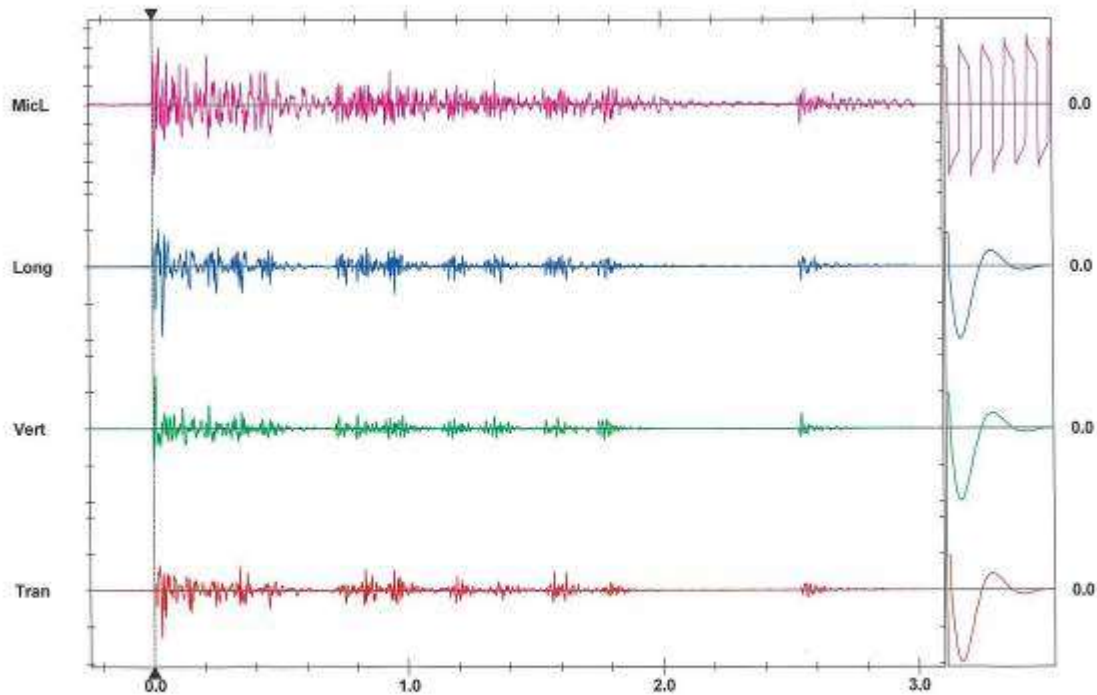
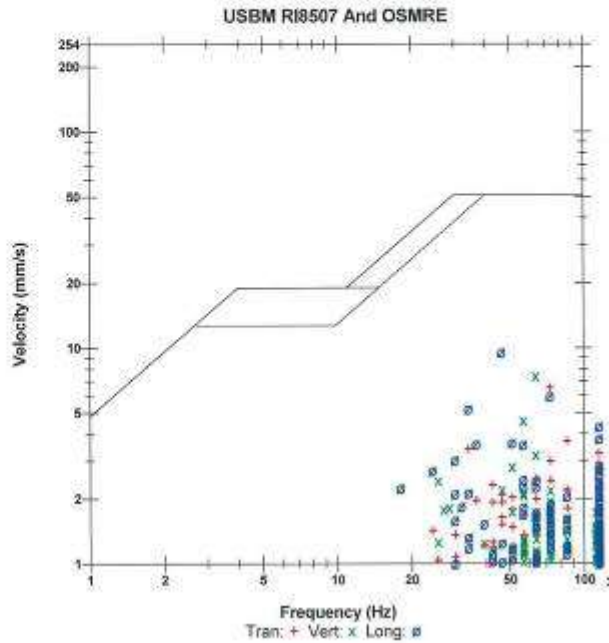
Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
File Name UM14790_20200509165209.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
Microphone Linear Weighting
PSPL 3.646 pa.(L) at 0.009 sec
ZC Freq 73 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1393 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 6.518 | 7.409 | 9.513 | mm/s |
| ZC Freq | 73 | 64 | 47 | Hz |
| Time (Rel. to Trig) | 0.030 | 0.007 | 0.037 | sec |
| Peak Acceleration | 0.309 | 0.297 | 0.346 | g |
| Peak Displacement | 0.016 | 0.018 | 0.030 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.8 | |

Peak Vector Sum 9.567 mm/s at 0.037 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 5.000 mm/s/div Mic: 1.000 pa.(L)/div
 Trigger =

Sensor Check

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 10 / April / 2020 **Time of blast:** 16.31 pm **Blast Number:** VT 11

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of David Baramidze

Witness (If Any) : _____

Additional comments Blasting location at KM6+406 Tunnel 3, SOUTH MIC= 2071

Seismograph was installed at predetermined distance of L= 313 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV



Company : POLATYOL & MAPA JV

Date/Time MicL at 16:31:31 April 10, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLAT YOL B mmb

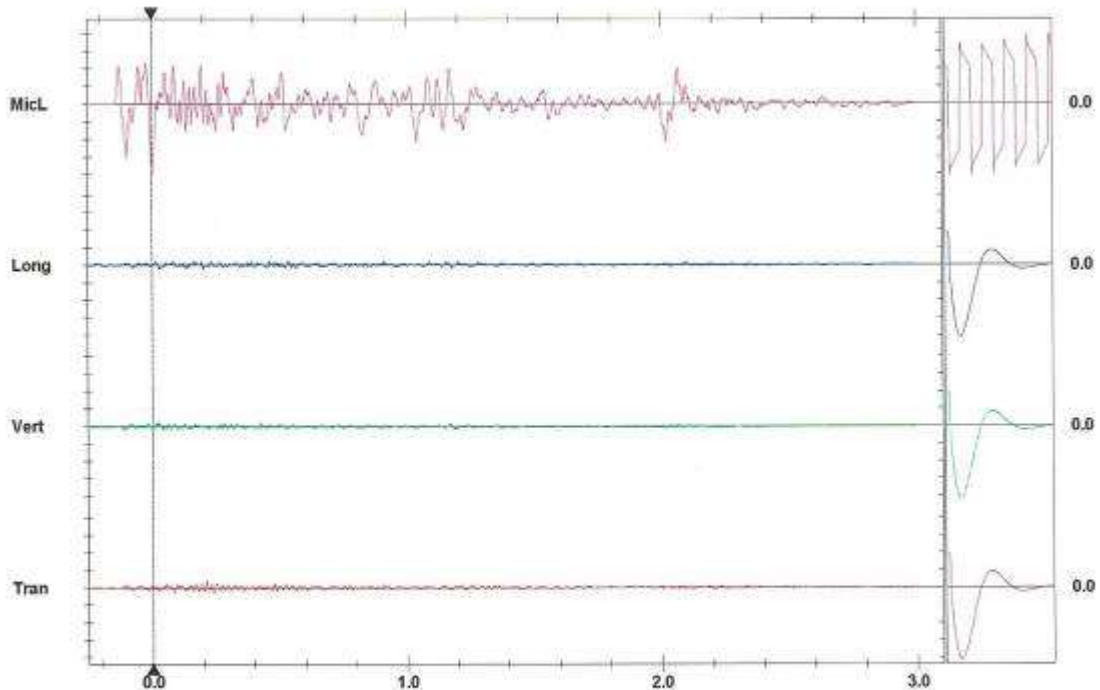
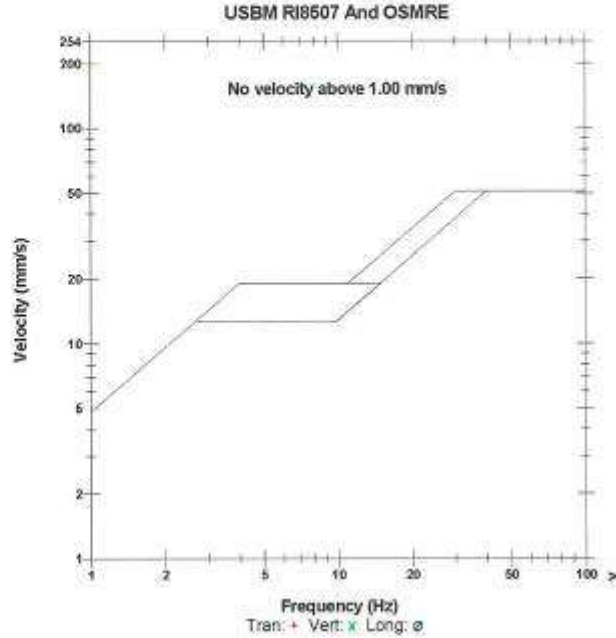
Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.8 Volts
File Name UM14790_20200410163131.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abduraimatov
 General: Blisgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
Microphone Linear Weighting
PSPL 78.62 pa.(L) at 0.004 sec
ZC Freq 17 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1431 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.757 | 0.504 | 0.441 | mm/s |
| ZC Freq | 47 | 22 | 51 | Hz |
| Time (Rel. to Trig) | 0.212 | 0.001 | 0.203 | sec |
| Peak Acceleration | 0.036 | 0.023 | 0.032 | g |
| Peak Displacement | 0.003 | 0.003 | 0.003 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.1 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.9 | |

Peak Vector Sum 0.763 mm/s at 0.212 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 20.00 pa.(L)/div
 Trigger =

Sensor Check

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: April / 11 / 2020 Time of blast: 9:50 am Blast Number: PT 16

Seismograph Make and Model: InstanTel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Tambul Tintcharadze

Witness (If Any) : _____

Additional comments Blasting location at KM 6+604 Tunnel 3, South MIC= 20.71 kg

Seismograph was installed at predetermined distance of L=1073 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Vert at 09:49:56 April 11, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator: POLAT YOL B mmb

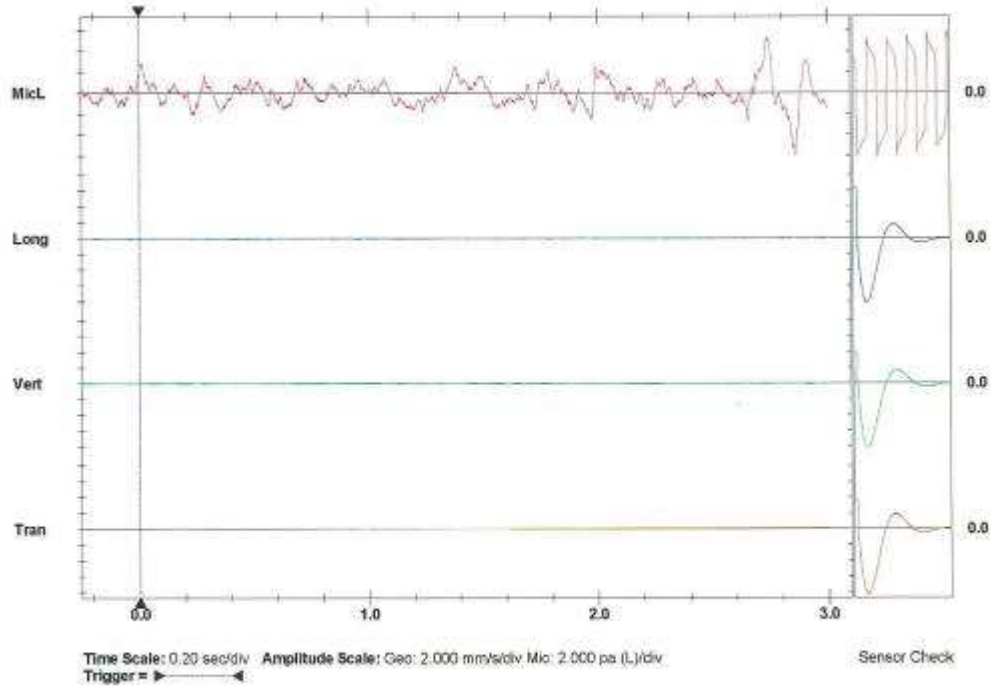
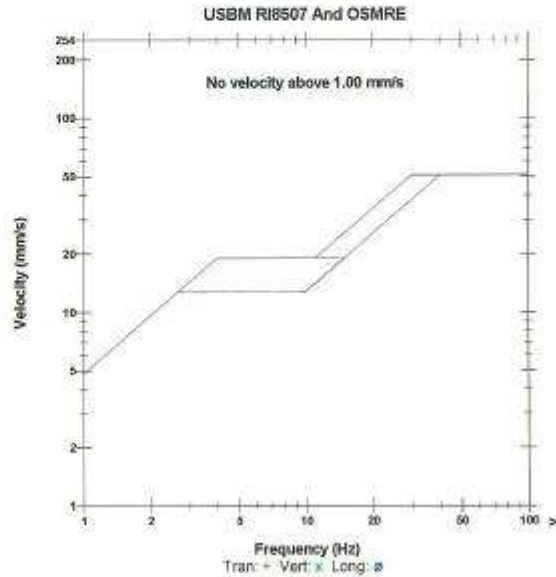
Serial Number UM14780 V 10-89 Micromate ISEE
Battery Level 3.8 Volts
File Name UM14780_02/00411094956BJF-W

Notes
Location: BATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurrahmanov
General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Microphone Linear Weighting
PSPL 5.969 pa(L) at 2.853 sec
ZC Freq 5.3 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1356 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.079 | 0.047 | 0.055 | mm/s |
| ZC Freq | N/A | 18 | 24 | Hz |
| Time (Rel. to Trig) | 0.001 | -0.176 | 1.938 | sec |
| Peak Acceleration | 0.005 | 0.005 | 0.005 | g |
| Peak Displacement | 0.000 | 0.001 | 0.001 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.5 | Hz |
| Overswing Ratio | 4.5 | 5.2 | 4.7 | |

Peak Vector Sum 0.007 mm/s at 1.372 sec
N/A: Not Applicable



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: April / 11 / 2020 Time of blast: 9:50 am Blast Number: PT 16

Seismograph Make and Model: InstanTel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Tambul Tintcharadze

Witness (If Any) : _____

Additional comments Blasting location at KM 6+604 Tunnel 3, South MIC= 20.71 kg

Seismograph was installed at predetermined distance of L=1073 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Vert at 09:49:56 April 11, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa (L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator: POLAT YOL B mmb

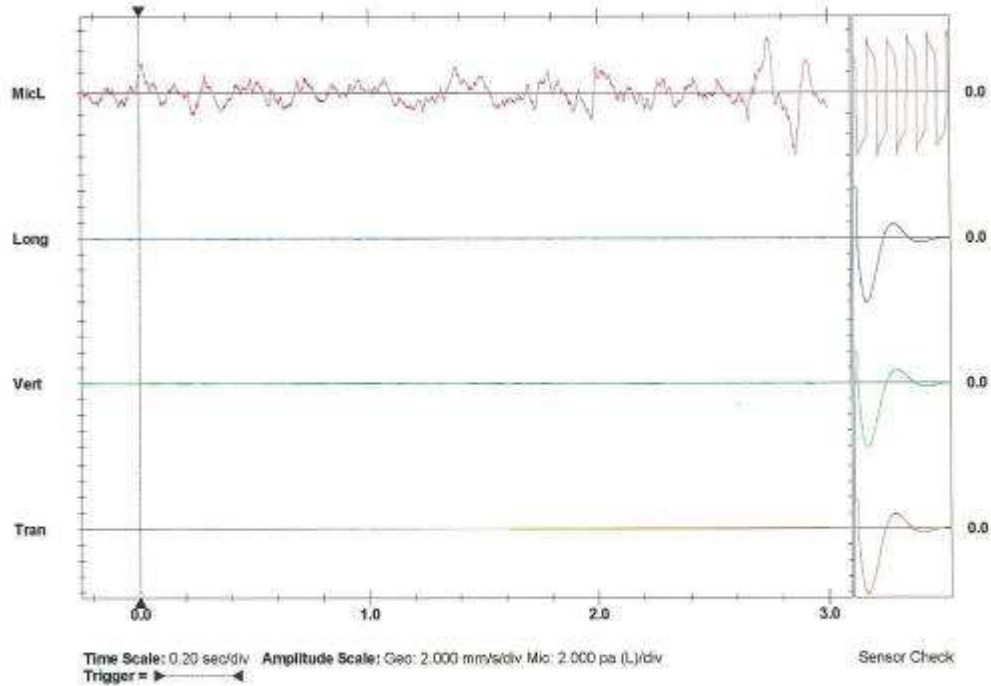
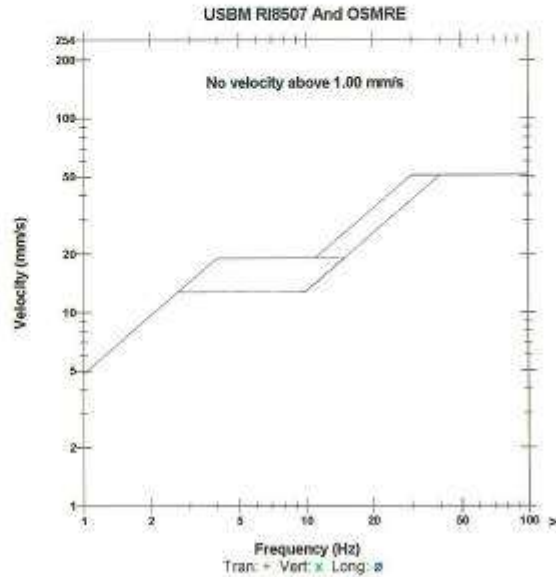
Serial Number UM14780 V 10-89 Micromate ISEE
Battery Level 3.8 Volts
File Name UM14780_02/004110949565JF-W



Notes
Location: BATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurhamanov
General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Microphone Linear Weighting
PSPL 5.969 pa (L) at 2.853 sec
ZC Freq 5.3 Hz
Channel Test Passed (Freq = 20.5 Hz Amp = 1356 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.079 | 0.047 | 0.055 | mm/s |
| ZC Freq | N/A | 18 | 24 | Hz |
| Time (Rel. to Trig) | 0.001 | -0.176 | 1.938 | sec |
| Peak Acceleration | 0.005 | 0.005 | 0.005 | G |
| Peak Displacement | 0.000 | 0.001 | 0.001 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.5 | Hz |
| Overswing Ratio | 4.5 | 5.2 | 4.7 | |

Peak Vector Sum 0.007 mm/s at 1.372 sec
N/A: Not Applicable



| | | |
|---|---|---|
|  | <p>Project Batumi Bypass Road Section km+1+000—km+ 13+325</p> |  |
|---|---|---|

| | |
|--------------------------------------|------------------------------------|
| SEISMOGRAPH OPERATOR'S REPORT | |
| Client : | <u>ROADS DEPARTMENT OF GEORGIA</u> |
| Project: | <u>BATUMI BYPASS PROJECT</u> |

| | | |
|--------------------------------|---------------------------------------|----------------------------------|
| Date: <u>11/06/2020</u> | Time of blast: <u>21:54:43</u> | BlastNumber: <u>BR017</u> |
|--------------------------------|---------------------------------------|----------------------------------|

| | | | |
|--|--------------------------------------|-------------------------|------------------------------|
| Seismograph Make and Model: | <u>Instantel, Micromate</u> | Serial Number: | <u>UM13228</u> |
| Trigger Source: | <u>GEO: 3.7 mm/sn</u> | | |
| Range Selected: | <u>GEO: 254 mm/sn</u> | Record Duration: | <u>3 seconds at 1024 sps</u> |
| Sensor Test Result (at set-up): | <u>passed</u> | | |
| Geophone Location | <u>Nuri TSETSHKLADZE</u> | | |
| Witness (If Any) : | <u>(House owner)</u> | | |
| Additional comments | <u>Blasting location at KM 8+400</u> | <u>Tunnel №4</u> | <u>MIC=14,17</u> |
| Seismograph was installed at predetermined distance of <u>L= 26 meters</u> from the blasting location. | | | |
| The ground vibration was measured within the limits | | | |
| I certify that the above listed monitoring equipment was properly set in place for the blast indicated | | | |
| Signature of seismograph operator: | | | |
| Printed name : <u>Ayaz ABDURAHMANOV</u> | | | |
| Company : <u>POLATYOL & MAPA JV</u> | | | |

Date/Time Vert at 21:54:43 June 11, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromaté ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200611215443.IDFW

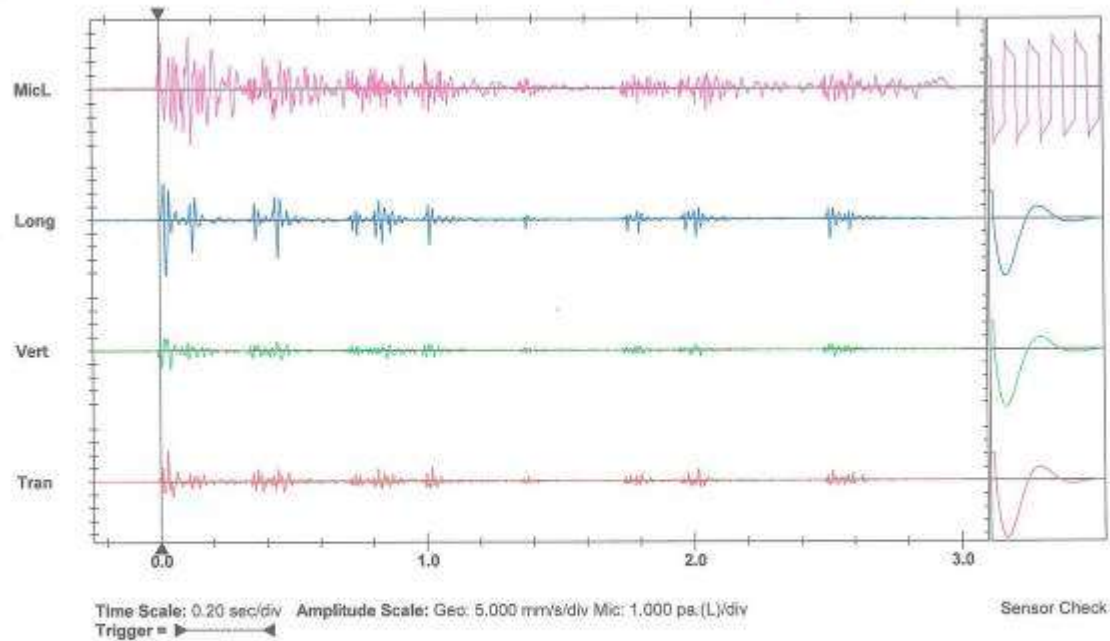
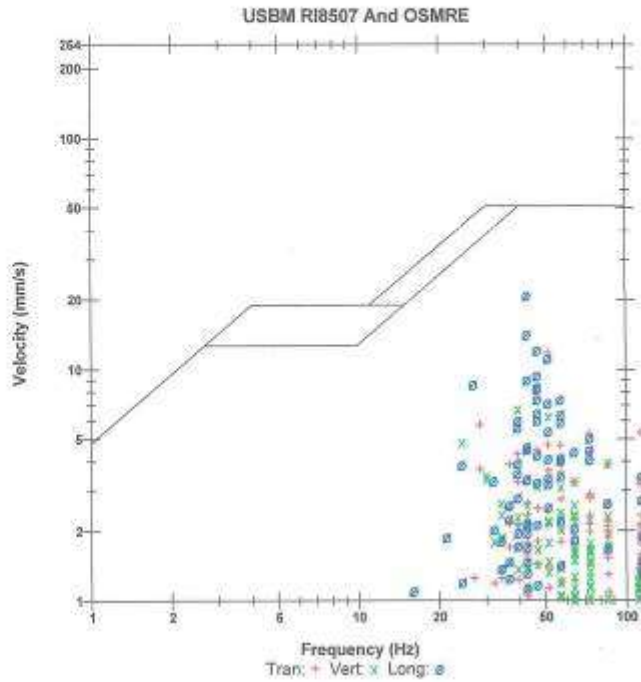
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit



Extended Notes

Microphone Linear Weighting
 PSPL 3.972 pa.(L) at 0.120 sec
 ZC Freq 39 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1323 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 11.77 | 6.763 | 20.97 | mm/s |
| ZC Freq | 51 | 39 | 43 | Hz |
| Time (Ref. to Trig) | 0.027 | 0.040 | 0.023 | sec |
| Peak Acceleration | 0.337 | 0.271 | 0.750 | g |
| Peak Displacement | 0.033 | 0.030 | 0.079 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 5.0 | 4.8 | |

Peak Vector Sum 21.44 mm/s at 0.024 sec



| | | |
|---|---|---|
|  | Project Batumi Bypass Road Section km-1+000—km- 13+325 |  |
|---|---|---|

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA
Project: BATUMI BYPASS PROJECT
Date: 15/01/2020 **Time of blast:** 10:07 **Blast Number:** TUNNEL 4-AC
Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM14790
Trigger Source: GEO: 3.7 mm/s
Range Selected: GEO: 254 mm/s **Record Duration:** 3 seconds at 1024 sps
Sensor Test Result (at set-up): passed
Geophone Location : House of Ruslan Shentadze
Witness (If Any) : _____
Additional comments : Blasting location at KM 7+964; Tunnel 4 MIC=27.5kg
 Seismograph was installed at predetermined, hypotenuse, distance of L=25 meters
 From the blasting location. The ground vibration was measured within the limits.

I certify that the above listed monitoring equipment was properly set in place for the blast indicated


Signature of seismograph operator:
Printed name : Ayaz ABDURAHMANOV
Company : POLATYOL & MAPA JV

Date/Time Vert at 10:07:33 January 15, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

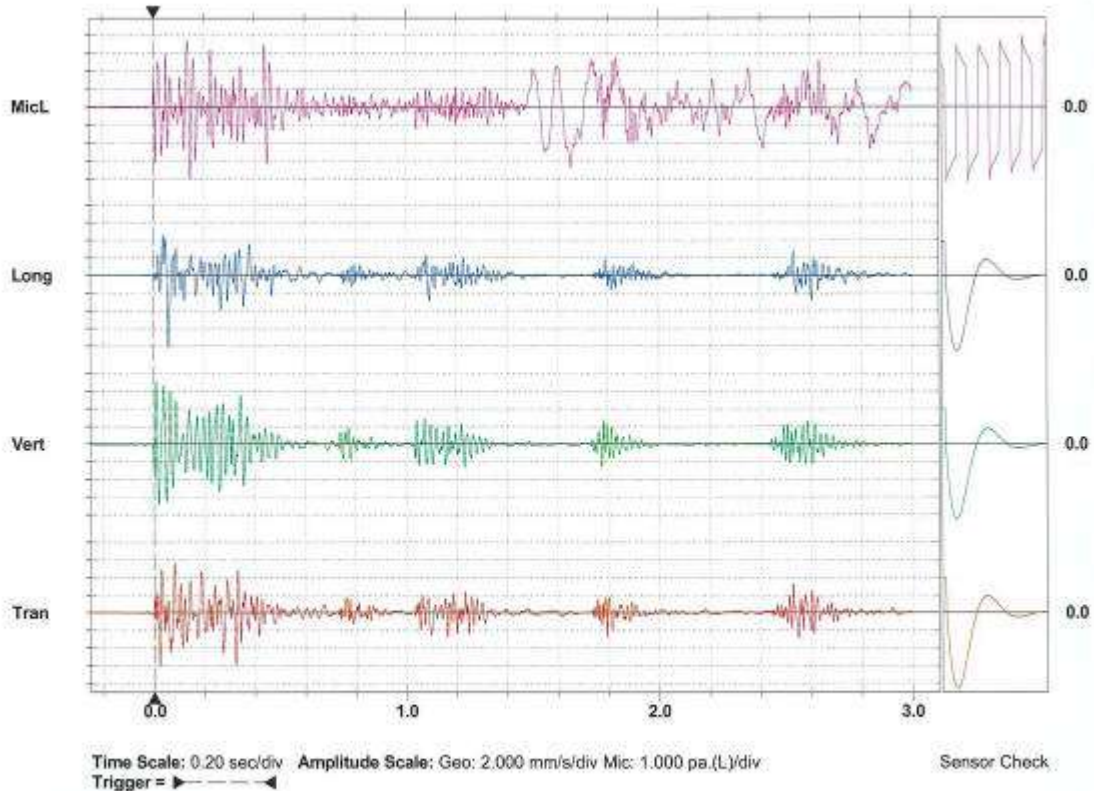
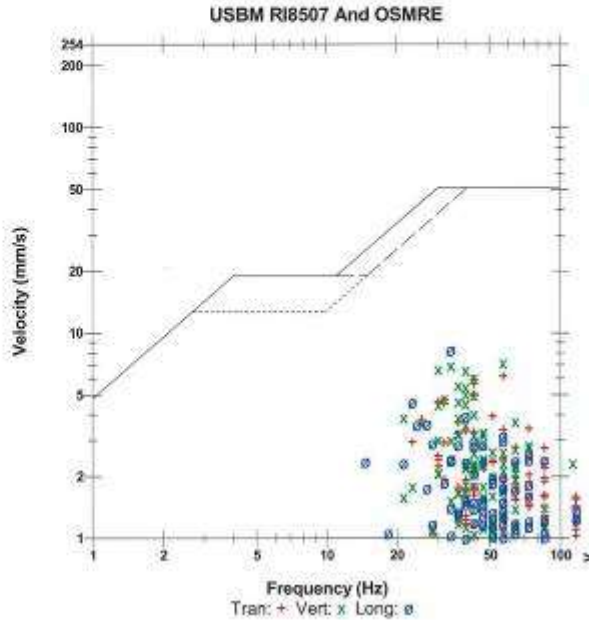
Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.7 Volts
Unit Calibration February 15, 2019 by Istantel
File Name UM14790_20200115100733.IDFW

Notes
Location: BATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurahmanov
General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
PSPL 4.034 pa.(L) at 0.145 sec
ZC Freq 43 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1382 mv.)

| | Tran | Vert | Long | |
|---------------------|-------------------------|--------|--------|------|
| PPV | 6.124 | 7.109 | 8.237 | mm/s |
| PPV | 66.74 | 68.04 | 69.31 | dB |
| ZC Freq | 57 | 57 | 34 | Hz |
| Time (Rel. to Trig) | 0.021 | 0.008 | 0.056 | sec |
| Peak Acceleration | 0.272 | 0.252 | 0.252 | g |
| Peak Displacement | 0.023 | 0.029 | 0.035 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.1 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.9 | |
| Peak Vector Sum | 8.428 mm/s at 0.061 sec | | | |





Project Batumi Bypass Road Section
km-1+000—km- 13+325



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 15/05/2020 **Time of blast:** -11:34:48

BlastNumber: AKP2734SKC

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Davit PUTKARADZE

Witness (If Any) : _____

Additional comments Blasting location at KM 6+347 Tunnel №3 MIC=19.62

Seismograph was installed at predetermined distance of L= 68.05 meters from the blasting location.

The ground vibration was measured within the limits.

—

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Tran at 11:34:48 May 15, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time: 3.0 sec at 1024 sps
 Operator/Setup: Operator:POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200515113448.IDFW

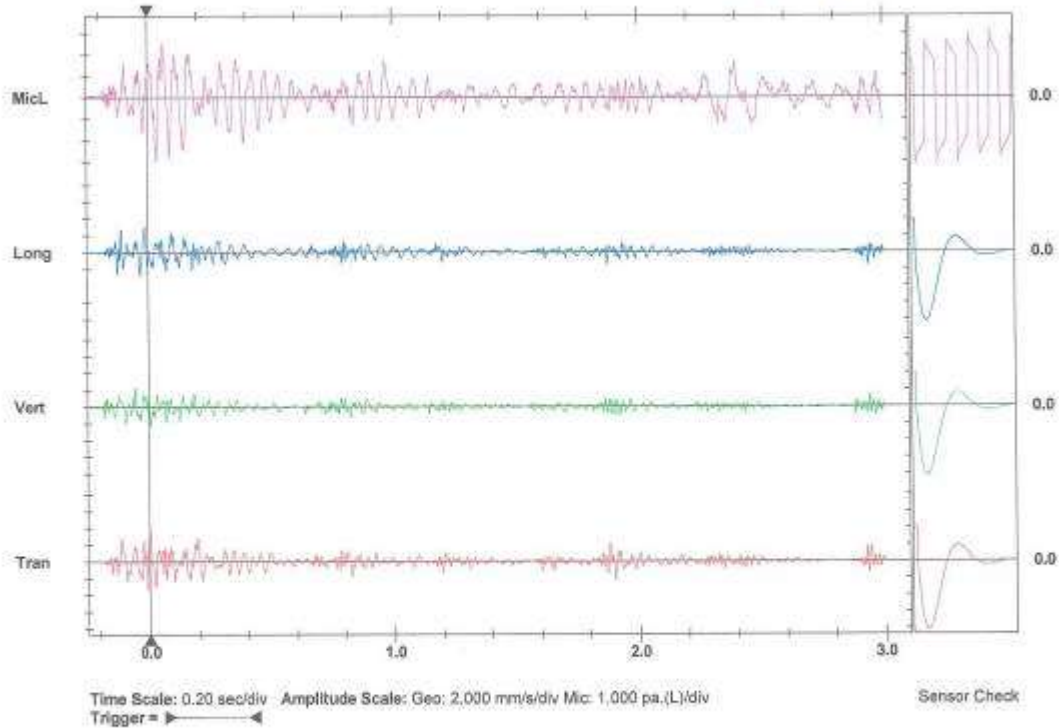
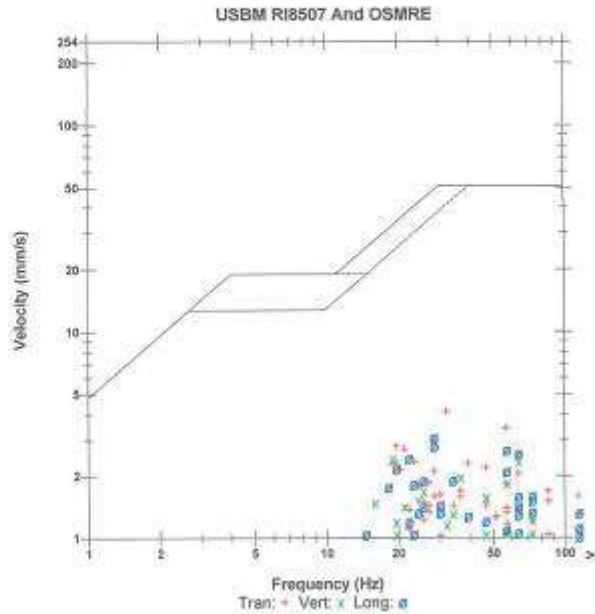
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Clerk: ROADS DEPARTMENT OF GEORGIA
 User Name: Aysz Abdurahmanov
 General: Blsign Tunnel 4 Entrance / Tunnel 3 Exit



Extended Notes

Microphone Linear Weighting
 PSPL 3.025 pa.(L) at 0.037 sec
 ZC Freq 19 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1259 mv)

| | Tran | Vert | Long | mm/s |
|---------------------|--------|--------|--------|------|
| PPV | 4.099 | 2.428 | 3.074 | |
| ZC Freq | 32 | 19 | 28 | Hz |
| Time (Rel. to Trlg) | 0.001 | 0.007 | -0.015 | sec |
| Peak Acceleration | 0.123 | 0.096 | 0.116 | g |
| Peak Displacement | 0.020 | 0.014 | 0.017 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 4.9 | 4.8 | |

Peak Vector Sum: 4.165 mm/s at 0.001 sec



| | | |
|---|---|---|
|  | <p>Project Batumi Bypass Road Section km-1+000—km- 13+325</p> |  |
|---|---|---|

| | |
|--------------------------------------|------------------------------------|
| SEISMOGRAPH OPERATOR'S REPORT | |
| Client : | <u>ROADS DEPARTMENT OF GEORGIA</u> |
| Project: | <u>BATUMI BYPASS PROJECT</u> |

| | | |
|--------------------------------|---------------------------------------|-------------------------------------|
| Date: <u>21/05/2020</u> | Time of blast: <u>10:25:08</u> | BlastNumber: <u>CS076801</u> |
|--------------------------------|---------------------------------------|-------------------------------------|

| | | | |
|---|--|-------------------------|------------------------------|
| Seismograph Make and Model: | <u>InstanTel, Micromate</u> | Serial Number: | <u>UM13228</u> |
| Trigger Source: | <u>GEO: 3.7 mm/sn</u> | | |
| Range Selected: | <u>GEO: 254 mm/sn</u> | Record Duration: | <u>3 seconds at 1024 sps</u> |
| Sensor Test Result (at set-up): | <u>passed</u> | | |
| Geophone Location : | <u>Nuri TSETSKHLADZE</u> | | |
| Witness (If Any) : | _____ | | |
| Additional comments | <u>Blasting location at KM 6+348 Tunnel №4 MIC= 14.17 kg</u> | | |
| <u>Seismograph was installed at predetermined distance of L= 46 meters from the blasting location.</u> | | | |
| <u>The ground vibration was measured within the limits</u> | | | |
| _____ | | | |
| <u>I certify that the above listed monitoring equipment was properly set in place for the blast indicated</u> | | | |
| | | | |
| Signature of seismograph operator: | | | |
| Printed name : <u>Ayaz ABDURAHMANOV</u> | | | |
| Company : <u>POLATYOL & MAPA JV</u> | | | |

Date/Time Vert at 10:25:08 May 21, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

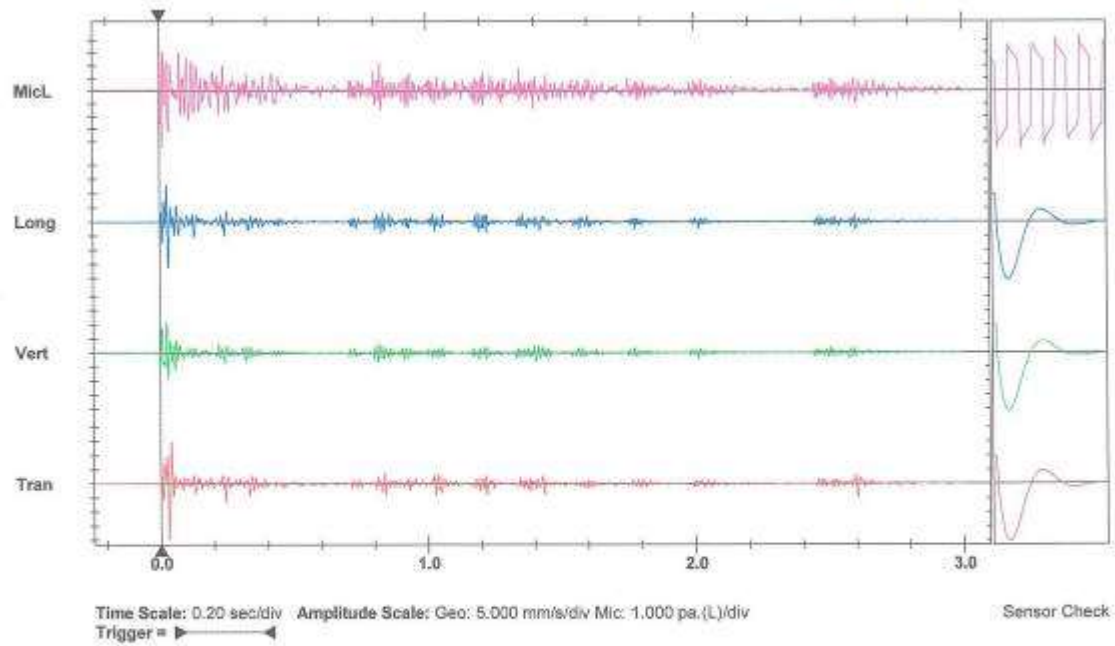
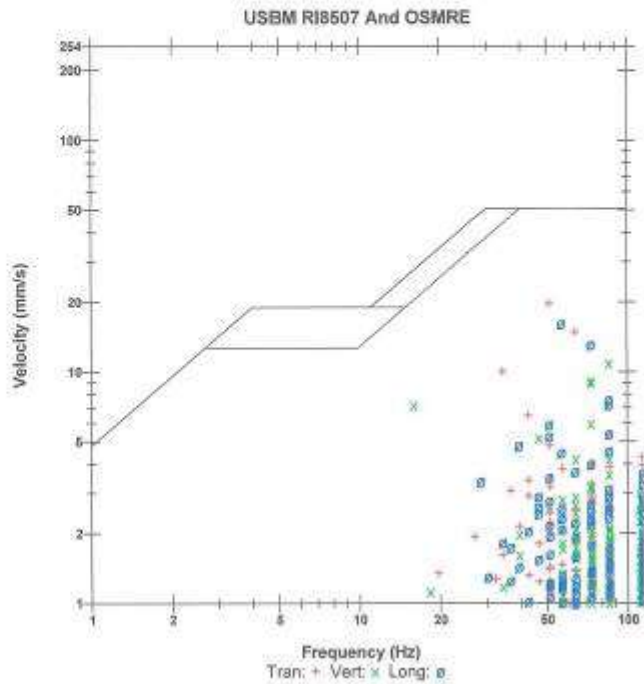
Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.7 Volts
 File Name UM14790_20200521102508.IDFW



Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
 Microphone Linear Weighting
 PSPL 4.391 pa.(L) at 0.009 sec
 ZC Freq 85 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1260 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 19.59 | 10.96 | 16.18 | mm/s |
| ZC Freq | 51 | 85 | 57 | Hz |
| Time (Rel. to Trig) | 0.029 | 0.024 | 0.031 | sec |
| Peak Acceleration | 0.747 | 0.539 | 0.738 | g |
| Peak Displacement | 0.059 | 0.022 | 0.043 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 5.0 | 4.7 | |

Peak Vector Sum 26.83 mm/s at 0.030 sec



| | | |
|---|---|---|
|  | Project Batumi Bypass Road Section km-1+000—km- 13+325 |  |
|---|---|---|

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 22/05/2020 **Time of blast:** 10:15:22 **BlastNumber:** HXJ1220

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : Davit BARAMIDZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 6+326 Tunnel №3 MIC=19.62

Seismograph was installed at predetermined distance of L= 389 meters from the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time: MicL at 10:15:22 May 22, 2020
 Trigger Source: Geo: 3.700 mm/s, Mic: 70.98 pa.(L)
 Range: Geo: 254.0 mm/s
 Record Time: 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

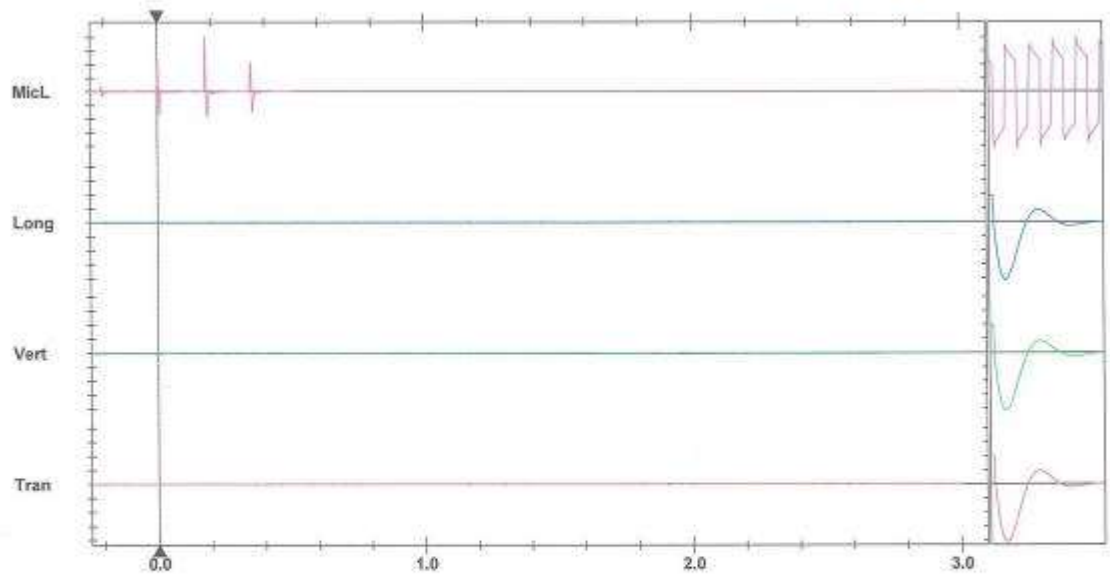
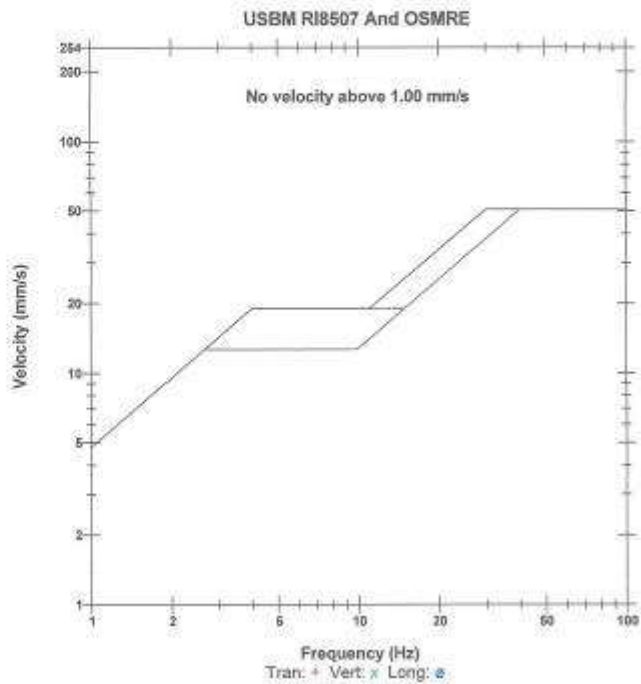
Serial Number: UM14790 V 10-89 Micromate ISEE
 Battery Level: 3.7 Volts
 File Name: UM14790_20200522101522.IDFW

Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blisgn Tunnel 4 Entrance / Tunnel 3 Exit



Extended Notes
 Microphone: Linear Weighting
 PSPL: 410.0 pa.(L) at 0.179 sec
 ZC Freq: 5.1 Hz
 Channel Test: Passed (Freq = 19.7 Hz Amp = 1264 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.079 | 0.126 | 0.126 | mm/s |
| ZC Freq | 27 | 37 | 16 | Hz |
| Time (Rel. to Trig) | 2.579 | 0.190 | 0.193 | sec |
| Peak Acceleration | 0.006 | 0.005 | 0.005 | g |
| Peak Displacement | 0.000 | 0.007 | 0.010 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 4.9 | 4.8 | |

Peak Vector Sum: 0.152 mm/s at 0.193 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 100.00 pa.(L)/div
 Trigger = Printed: May 22, 2020 (V 10.74) Sensor Check: Format © 1995-2016 Xmark Corporation

| | | |
|---|---|---|
|  | <p>Project Batumi Bypass Road Section km-1+000—km- 13+325</p> |  |
|---|---|---|

SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 23/06/2020 **Time of blast:** 12:01:36 **BlastNumber:** BR27

Seismograph Make and Model: Instantel, Micromate **Serial Number:** UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn **Record Duration:** 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Nodar SAKANDELIDZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 8+434 Tunnel №4 MIC=14,17

Seismograph was installed at predetermined distance of L= 41meters from the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time Tran at 12:01:36 June 23, 2020
 Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

Serial Number UM14790 V 10-89 Micromate ISEE
 Battery Level 3.8 Volts
 File Name UM14790_20200523120136.IDPW

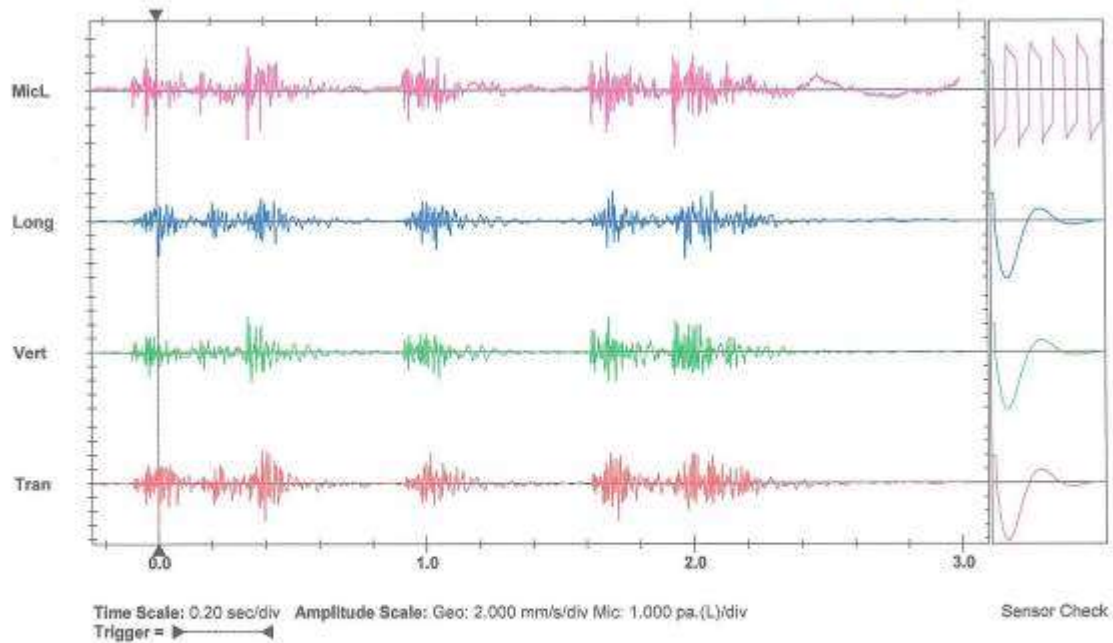
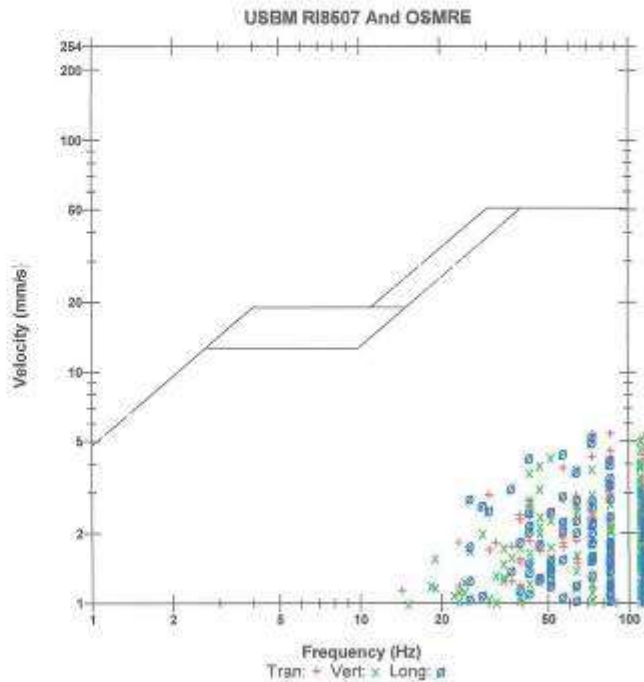
Notes
 Location: BATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Aysz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
 PSPL 3.196 pa.(L) at 1.937 sec
 ZC Freq >100 Hz
 Channel Test Passed (Freq = 19.7 Hz Amp = 1245 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 5.391 | 5.131 | 5.265 | mm/s |
| ZC Freq | 85 | >100 | 73 | Hz |
| Time (Rel. to Trig) | 1.718 | 1.686 | 1.972 | sec |
| Peak Acceleration | 0.378 | 0.541 | 0.434 | g |
| Peak Displacement | 0.010 | 0.012 | 0.013 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 4.9 | 4.7 | |

Peak Vector Sum 6.350 mm/s at 0.394 sec



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 28/04/2020 Time of blast: 10:55 Blast Number: CP 21

Seismograph Make and Model: InstanTel, Micromate Serial Number: UM13228

Trigger Source: GEO: 3.7 mm/sn

Range Selected: GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location : House of Gulizar Devadze

Witness (If Any) : _____

Additional comments Blasting location at KM8+282 Tunnel 4, NORTH MIC= 14.17 kg

Seismograph was installed at predetermined distance of L= 93 meters

From the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : **Ayaz ABDURAHMANOV**

Company : **POLATYOL & MAPA JV**

Date/Time Tran at 10:55:14 April 28, 2020
Trigger Source Geo: 3.700 mm/s, Mic: 70.96 pa (L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps
Operator/Setup: Operator/POLATYOL B.mmb

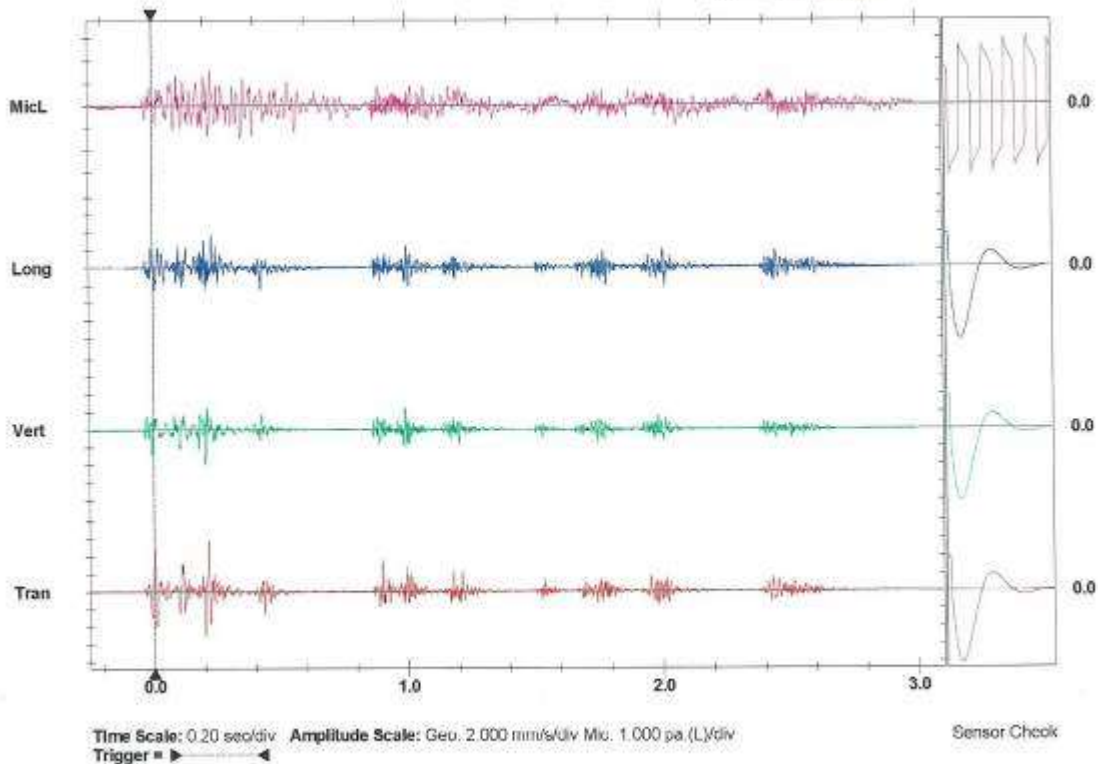
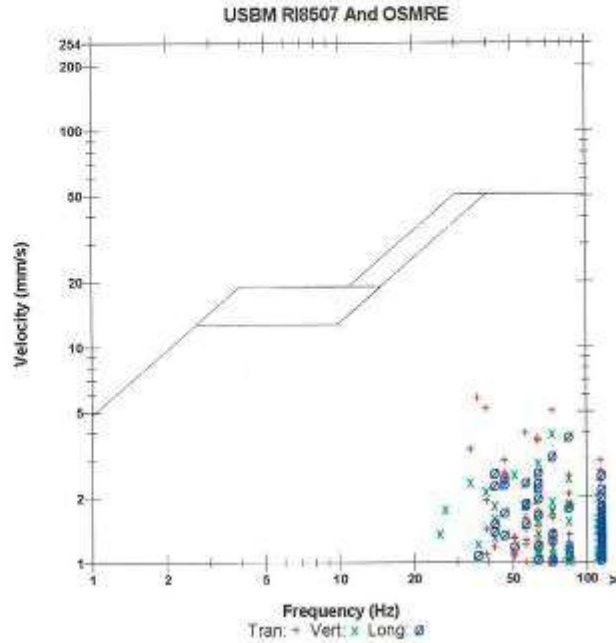
Serial Number UM14790 V 10-89 Micromate ISEE
Battery Level 3.8 Volts
File Name UM14790_20200428105514.IDFW

Notes
Location: DATUMI BYPASS ROAD PROJECT
Client: ROADS DEPARTMENT OF GEORGIA
User Name: Ayaz Abdurahmanov
General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes

Microphone Linear Weighting
PSPL 1.629 pa (L) at 0.232 sec
ZC Freq 34 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1361 mv)

| | Tran | Vert | Long | |
|----------------------------|-------------------------|--------|--------|------|
| PPV | 5.777 | 3.949 | 3.623 | mm/s |
| ZC Freq | 37 | 73 | 86 | Hz |
| Time (Rel. to Trig) | 0.217 | 0.205 | 0.232 | sec |
| Peak Acceleration | 0.306 | 0.202 | 0.193 | g |
| Peak Displacement | 0.018 | 0.009 | 0.008 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.5 | 5.0 | 4.8 | |
| Peak Vector Sum | 5.916 mm/s at 0.202 sec | | | |



SEISMOGRAPH OPERATOR'S REPORT

Client : ROADS DEPARTMENT OF GEORGIA

Project: BATUMI BYPASS PROJECT

Date: 29/05/2020 Time of blast: 16:11:10 BlastNumber: _OBTL01_

Seismograph Make and Model: Instantel, Micromate Serial Number: UM13228

Trigger Source: _GEO: 3.7 mm/sn

Range Selected: _GEO: 254 mm/sn Record Duration: 3 seconds at 1024 sps

Sensor Test Result (at set-up): passed

Geophone Location Eliso DIASAMIDZE

Witness (If Any) : (House owner)

Additional comments Blasting location at KM 6+314 Tunnel №3 MIC=19,62

Seismograph was installed at predetermined distance of L= 697 meters from the blasting location.

The ground vibration was measured within the limits

I certify that the above listed monitoring equipment was properly set in place for the blast indicated

Signature of seismograph operator:

Printed name : Ayaz ABDURAHMANOV

Company : POLATYOL & MAPA JV

Date/Time: MicL at 16:11:10 May 29, 2020
 Trigger Source: Geo: 3.700 mm/s, Mic: 70.96 pa.(L)
 Range: Geo: 254.0 mm/s
 Record Time: 3.0 sec at 1024 sps
 Operator/Setup: Operator/POLATYOL B.mmb

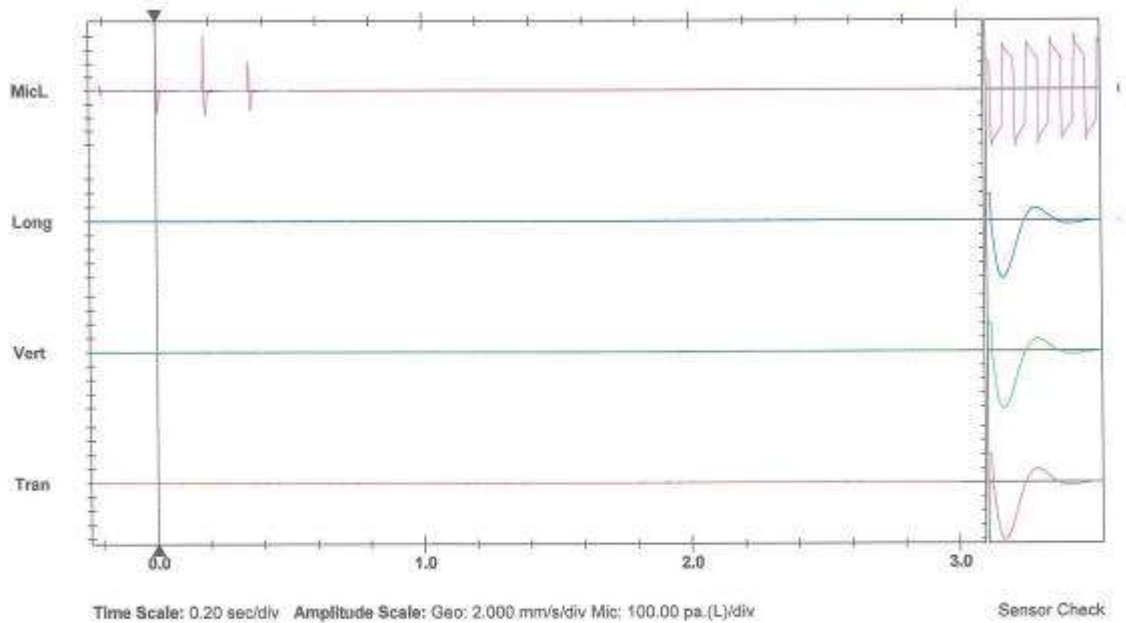
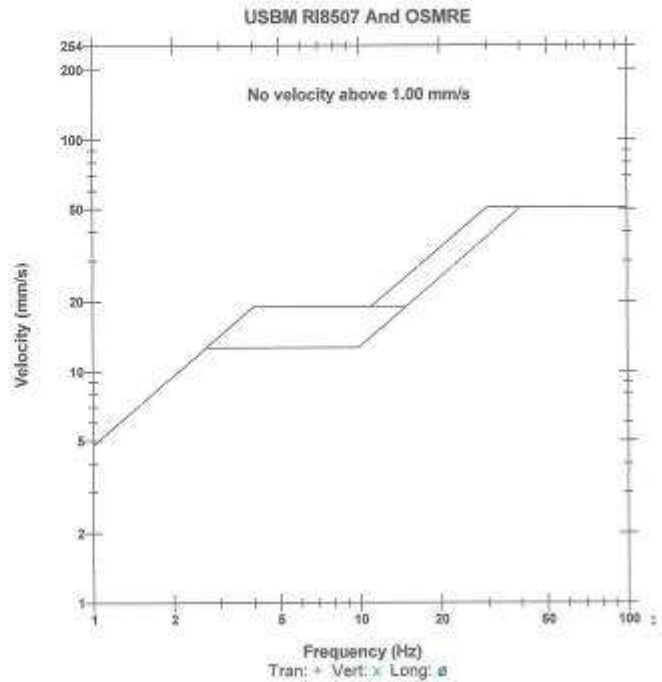
Serial Number: UM14790 V 10-89 Micromate ISEE
 Battery Level: 3.7 Volts
 File Name: UM14790_20200514172222.IDFW

Notes
 Location: SATUMI BYPASS ROAD PROJECT
 Client: ROADS DEPARTMENT OF GEORGIA
 User Name: Ayaz Abdurahmanov
 General: Blstgn Tunnel 4 Entrance / Tunnel 3 Exit

Extended Notes
 Microphone: Linear Weighting
 PSPL: 410.0 pa.(L) at 0.179 sec
 ZC Freq: 5.1 Hz
 Channel Test: Passed (Freq = 19.7 Hz Amp = 1284 mv)


| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 0.029 | 0.071 | 0.068 | mm/s |
| ZC Freq | 27 | 17 | 15 | Hz |
| Time (Rel. to Trig) | 2.112 | 0.132 | 0.121 | sec |
| Peak Acceleration | 0.006 | 0.005 | 0.005 | g |
| Peak Displacement | 0.000 | 0.007 | 0.010 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.1 | 7.3 | Hz |
| Overswing Ratio | 4.4 | 4.9 | 4.8 | |

Peak Vector Sum: 0.152 mm/s at 0.193 sec



Annex 5. ENCRs

| | | |
|--|--|---|
| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Surbana Jurong Group |
| Part 1 – Non-Conformance Description: | | |
| Reference Number: | ENCR 20 | |
| Project Name: | Batumi Bypass Road Project | Date raised: 11.01.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | |
| Location: | Tunnel No.5 Portal | |
| Non-Conformance details: | | |
| Contamination of slope and watercourse with concrete. | | |
| Engineer's Representative: | Giorgi Shukeshvili | Signature:  |
| Part 2 – Corrective Actions (attach any supporting information) | | |
| Sedimentation basin was builded for concrete Contamination , prevention was taken for environment. | | |
| | | Agreed Close-out Date Date: 15.01.2020 |
| Contractor's Representative: | Abdurrahman et. | Signature:  |
| Part 3 – Inspection (evidence to support corrective action implementation) | | |
| Photo material. | | |
| Engineer's Representative: | Giorgi Shukeshvili | Signature: 15.01.2020 |
| Closure Date: |  | |

| | | |
|-----------------|--|--|
| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
|-----------------|--|--|

Part 1 – Non-Conformance Description:

| | | | |
|-------------------|--------------------------------|--------------|-----------|
| Reference Number: | ENCR 21 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11.1.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No.12 Stone Column Area | | |

Non-Conformance details:

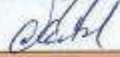
Burned tires.

| | | | |
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| Engineer's Representative: | <i>Giorgi Shinkoshvili</i> | Signature: |  |
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Part 2 – Corrective Actions (attach any supporting information)

Burned tires were removed from the site.

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| Agreed Close-out Date |
| Date: 13.01.2020 |


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|------------------------------|---------------------|------------|---|
| Contractor's Representative: | <i>Abdourahmane</i> | Signature: |  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Photo materials

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| Engineer's Representative: | <i>Giorgi Shinkoshvili</i> | Signature: | <i>13.01.2020</i> |
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| Closure Date: |  |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR 22 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11.01.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | IC-4 | | |

Non-Conformance details:


Strong oil contamination near watercourse (former water pump location).

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| Engineer's Representative: | <i>Georgi Shinkashvili</i> | Signature: |  |
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Part 2 – Corrective Actions (attach any supporting information)


Sedimentation basins were provided, water pumps were repaired by the subcontractor. Oil leakage issue was solved. Contaminated soil was removed (cleaned up) from the site.

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| Agreed Close-out Date |
| Date: 15.01.2020 |


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| Contractor's Representative: | <i>Abdurahmana et.</i> | Signature: |  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Dove photos

| | | | |
|----------------------------|----------------------------|------------|---|
| Engineer's Representative: | <i>Georgi Shinkashvili</i> | Signature: |  |
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|---------------|-----------------|
| Closure Date: | <i>27.01.20</i> |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|--------------------------------|--------------|------------|
| Reference Number: | ENCR 23 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11.01.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No.12 Stone Column Area | | |

Non-Conformance details:
 Strong oil contamination near watercourse.

Engineer's Representative: *Giorgi Shinkashvili* Signature: 

Part 2 – Corrective Actions (attach any supporting information)

Contaminated sand was cleaned up from the site.

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| Agreed Close-out Date |
| Date: 15.01.2020 |

Contractor's Representative: *Abdurrahmana A.* Signature: 


Part 3 – Inspection (evidence to support corrective action implementation)

*Contaminated soil is not fully removed.
 Needs additional measures.
 See photos*

Engineer's Representative: *Giorgi Shinkashvili* Signature: 

Closure Date:


*Done (Photos)
 7.02.2020*

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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jirong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR 24 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 06.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | T5 Portal 2 | | |


Non-Conformance details:
 Former oil storage area leaks oil, contaminates soil and nearby watercourse.

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| Engineer's Representative: | Georgi Shinkeshvili | Signature: |  |
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Part 2 – Corrective Actions (attach any supporting information)


Former oil storage and contaminated soil were removed from the site.

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| Agreed Close-out Date |
| Date: 15.02.2020 |


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|------------------------------|------------|------------|---|
| Contractor's Representative: | Abraham A. | Signature: |  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

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| Engineer's Representative: | Georgi Shinkeshvili | Signature: |  |
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| Closure Date: | 15.02.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR 25 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 06.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | T5 Portal 2 | | |


Non-Conformance details:
 Surrounding territory is contaminated household and construction waste.

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| Engineer's Representative: | <i>Georgi Shinkashvili</i> | Signature: |  |
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Part 2 – Corrective Actions (attach any supporting information)


Construction waste was cleaned from the site.

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| Agreed Close-out Date |
| Date: 15.02.2020 |


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| Contractor's Representative: | <i>Abulmoneem A.</i> | Signature: |  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

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| Engineer's Representative: | <i>Georgi Shinkashvili</i> | Signature: |  |
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| Closure Date: | <i>15.02.2020</i> |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surlana Juring Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR 26 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 06.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | T4 Portal 1 | | |

Non-Conformance details:
 Slope near oil storage/maintenance area are contaminated and contaminates watercourse.

Engineer's Representative: *Giorgi Shinkeshvili* | Signature: 

Part 2 – Corrective Actions (attach any supporting information)


Contaminated soil was removed from the site.

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| Agreed Close-out Date |
| Date: 10.02.2020 |


Contractor's Representative: *Abkhechmana A.* | Signature: 





Part 3 – Inspection (evidence to support corrective action implementation)

Done

Engineer's Representative: *Giorgi Shinkeshvili* | Signature: 

Closure Date: *19.02.2020*

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Saurashtra Group |
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| Part 1 – Non-Conformance Description: | | | | | |
| Reference Number: | ENCR 27 | | | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 06.02.2020 | | |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | | | |
| Location: | T5 Portal 1-2 | | | | |
| Non-Conformance details: | | | | | |
| Sediment trap does not perform its duties. | | | | | |
| Engineer's Representative: | G. Orgi Shukeshvili | Signature: |  | | |
| Part 2 – Corrective Actions (attach any supporting information) | | | | | |
| Additional actions has been taken. Contractor will monitor after. | | | <table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 10.02.2020</td> </tr> </table> | Agreed Close-out Date | Date: 10.02.2020 |
| Agreed Close-out Date | | | | | |
| Date: 10.02.2020 | | | | | |
| Contractor's Representative: |  | Signature: |  | | |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | | | |
| Done (Photos) | | | | | |
| Engineer's Representative: | G. Orgi Shukeshvili | Signature: |  | | |
| Closure Date: | 10.06.2020 | | | | |


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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  Member of the Suez Canal Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR 27 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 06.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | T5 Portal 1-2 | | |

Non-Conformance details:

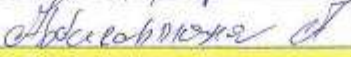

Sediment trap does not perform its duties.

| | | | |
|----------------------------|-----------------------|------------|---|
| Engineer's Representative: | G. Gorgi Shinkeshvili | Signature: |  |
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Part 2 – Corrective Actions (attach any supporting information)

Water course has been diverted to far from the activities of construction at tunnel 5 portal 1. Pipe was installed at tunnel 5 portal 2 for protect water which comes from the tunnel by this way water diverted to watercourse from entrance of tunnel. Preventions have been taken for protect water.

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| Agreed Close-out Date |
| Date: 10.02.2020 |

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| Contractor's Representative: |  | Signature: |  |
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Part 3 – Inspection (evidence to support corrective action implementation)




Additional actions needed for sediment traps


05.06.2020

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| Engineer's Representative: | Signature: |
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| Closure Date: | |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Sellen Group</small> |
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| Part 1 – Non-Conformance Description: | |
| Reference Number: | ENCR_028 |
| Project Name: | Batum Bypass Road Project |
| Date raised: | 22.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE |
| Location: | Km11+965-Km12+100 Stone column construction |
| Non-Conformance details: | |
| Replace damaged oil leaking water pumps and clean drip tray immediately through proper utilization of oil contaminated water. (With proving photo-materials). | |
| Engineer's Representative: | G. org. Shukashvili Signature:  |
| Part 2 – Corrective Actions (attach any supporting information) | |
| Water pumps were repaired and drip trays were cleaned, Drip trays will be cleaned by the subcontractor staff oftenly. | |
| Additional correction: | Agreed Close-out Date |
| Roof was builded for drip trays. | Date: 24.02.2020 |
| Contractor's Representative: | officer alimov et. Signature:  |
| Part 3 – Inspection (evidence to support corrective action implementation) | |
| Done | |
| Engineer's Representative: | G. org. Shukashvili Signature:  |
| Closure Date: | 29.02.2020 |

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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surlana Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_029 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 25.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No.8 | | |

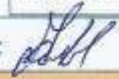
Non-Conformance details:
 Soil and Water contamination with concrete.

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Concrete waste was cleaned from the construction site and from the water.


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| Agreed Close-out Date |
| Date: 03.03.2020 |

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| Contractor's Representative: <i>Abolakhmanov et.</i> | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

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| Engineer's Representative: Giorgi Shiukashvili | Signature: <i>1.03.20</i> |
| Closure Date: |  |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Sauraha Joint Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_030 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 25.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No.5 | | |

Non-Conformance details:
 Soil contamination with concrete.

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)

The spilled concrete and the contaminated soil were cleaned from the construction site.

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| Agreed Close-out Date |
| Date: 03.03.2020 |


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| Contractor's Representative: <i>Atsupashvili et.</i> | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

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| Engineer's Representative: Giorgi Shiukashvili | Signature: <i>1.03.22</i> |
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| Closure Date: |  |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  Member of the Surtana Juring Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_031 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 27.02.2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No.8 | | |

Non-Conformance details:

Big amount of oil spill and concrete contamination. Oil contamination should be cleaned immediately.

| | |
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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)

Spilled oil and concrete were cleaned from the construction site.

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| Agreed Close-out Date |
| Date: 01.03.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

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| Engineer's Representative: | Signature: |
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| Closure Date: | 1-03-2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surlana Joint Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_032 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 23/04/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Km 12+000 – Km 13+000 | | |

Non-Conformance details:

Oil leak from the drip tray near watercourse

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Drip Tray has been repaired, oil leak has been cleared.

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| Agreed Close-out Date |
| Date: 29.04.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

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|---|--|
| Engineer's Representative: A. Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 28.09.2020 |
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| Polatyoi | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surlana Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_033 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 23/04/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Km 12+000 – Km 13+000 | | |



Non-Conformance details:
 Oil spill from oil storage area near watercourse

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Contaminated soil were removed from the site. Oil spill has been cleaned near to the watercourse.

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| Agreed Close-out Date |
| Date: 29.04.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 28.04.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_034 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 30/04/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 3, Portal No. 2 | | |

Non-Conformance details:
 Oil spill and waste near vehicle maintenance area

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Oil spill and waste have been removed from the construction site.

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| Agreed Close-out Date |
| Date: 04.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (photo)

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 04.05.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Surbana Jurong Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_035 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 30/04/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 3, Portal No. 2 | | |

Non-Conformance details:

Oil spill from damaged vehicle.

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)

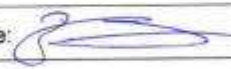
Oil spill has been removed from the Constaction site.

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| Agreed Close-out Date |
| Date: 07.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (photos)

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 07.05.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_036 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 30/04/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Construction Camp | | |


Non-Conformance details:
 Overfilled waste containers

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Overfilled waste containers has been cleaned by the cleaning service.

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| Agreed Close-out Date |
| Date: 04.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (photos)

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 04.05.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Soltana Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_037 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | IC-4 (section Km 12+600) | | |

Non-Conformance details:
 Oil spill from drip tray

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Oil spill has been cleaned from the construction site.
 Drip tray has been placed properly after cleaned.

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| Agreed Close-out Date |
| Date: 14.05.2020 |



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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)


Done




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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 14.05.2020 |
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|  | Environmental Non-Conformance Report (ENCR) |  Member of the Surobani Group |
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| Part 1 – Non-Conformance Description: | | | |
| Reference Number: | ENCR_038 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 5, Portal No.1 | | |
| Non-Conformance details: | | | |
| Concrete contamination | | | |
| Engineer's Representative: | Giorgi Shukashvili | Signature: |  |
| Part 2 – Corrective Actions (attach any supporting information) | | | |
| Concrete contamination has been removed from the construction site. | | | |
| | | | Agreed Close-out Date Date: 15.05.2020 |
| Contractor's Representative: | Ayaz ABDURAHMANOV | Signature: |  |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | |
| Done (Photos) | | | |
| Engineer's Representative: | Giorgi Shukashvili | Signature: |  |
| Closure Date: | 12.06.2020 | | |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  Member of the Sarsama Group |
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| Part 1 – Non-Conformance Description: | | | |
| Reference Number: | ENCR_039 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No. 3, Abutment A1 | | |
| Non-Conformance details: | | | |
| Burning of waste | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Part 2 – Corrective Actions (attach any supporting information) | | | |
| Burning waste has been removed from the construction site. | | | |
| | | | Agreed Close-out Date Date: 20.05.2020 |
| Contractor's Representative: | <i>Abdurahmanov I.</i> | Signature: |  |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | |
| Done (photos) | | | |
| Engineer's Representative: | <i>Giorgi Shiukashvili</i> | Signature: |  |
| Closure Date: | <i>20.05.2020</i> | | |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

| | | | |
|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_040 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No. 3, Pier P2-P3 | | |

Non-Conformance details:
 Watercourse contamination with concrete.

| | |
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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Concrete contamination has been cleaned from the construction site.

| |
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| Agreed Close-out Date |
| Date: 20.05.2020 |


| | |
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| Contractor's Representative:  | Signature:  |
|--|--|

Part 3 – Inspection (evidence to support corrective action implementation)

Done (photos)

| | |
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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 20.05.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  Member of the Sorbana Jursing Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_041 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Plant Yard | | |

Non-Conformance details:

Scattered household construction waste including oil contaminated soil.

| | |
|--|---|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|---|

Part 2 – Corrective Actions (attach any supporting information)


Scattered house hold construction waste and contaminated soil have been cleaned from the plant yard (workshop territories)

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|-----------------------|
| Agreed Close-out Date |
| Date: 21.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

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|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 21.05.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Soriana Group |
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Part 1 – Non-Conformance Description:

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|-------------------|--|--------------|------------|
| Reference Number: | ENCR_042 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Stone column construction area km12-13 | | |

Non-Conformance details:
 Strong oil contamination from diesel generators

| | |
|--|---|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|---|

Part 2 – Corrective Actions (attach any supporting information)


Oil contamination has been cleaned from the construction site.

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| Agreed Close-out Date |
| Date: 19.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)


Done (photos)


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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 18.05.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  Member of the Suda Group |
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|--|-------------------------------|--------------|---|
| Part 1 – Non-Conformance Description: | | | |
| Reference Number: | ENCR_043 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Km12-13 | | |
| Non-Conformance details: | | | |
| Water channel is overfilled by sediment and there is a danger of flooding the nearby private land plots. | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Part 2 – Corrective Actions (attach any supporting information) | | | |
| Water channels have been cleaned. | | | |
| | | | Agreed Close-out Date Date: 19.05.2020 |
| Contractor's Representative: | Ayaz ABDURAHMANOV | Signature: |  |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | |
| Done (Phone) | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Closure Date: | 18.06.2020 | | |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Surbana Jurong Group |
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| Part 1 – Non-Conformance Description: | | | |
| Reference Number: | ENCR_044 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 18/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 5 Portal No. 1 left side | | |
| Non-Conformance details: | | | |
| The spoil material encroaching the watercourse and impeding water flow needs to be removed from the watercourse before it rains. Sediment is impacting the aquatic environment and the spoil material has created a potential flood hazard by impeding water flow in the watercourse. | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Part 2 – Corrective Actions (attach any supporting information) | | | |
| | | | Agreed Close-out Date Date: 21.05.2020 |
| Contractor's Representative: | Signature: | | |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | |
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| Engineer's Representative: | Signature: | | |
| Closure Date: | | | |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Subbaraj Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_045 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 21/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 4 Portal No. 2 | | |

Non-Conformance details:

Scattered plastic food containers and other household waste.
 No waste bin.
 Training is needed about environmental protection and waste management.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Scattered plastic food containers and other household waste has been cleaned from the construction site.
 Training has been done with subcontractors according to environmental protection and waste management.

| |
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| Agreed Close-out Date |
| Date: 24.05.2020 |


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| Contractor's Representative:  | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photo)

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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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| Closure Date: | 24.05.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC Member of the Surlana Jirong Group |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_046 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 21/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 4 Portal No. 2 | | |


Non-Conformance details:
 Burning of waste at two location.
 Training is needed about environmental protection and waste management.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Burning waste has been cleaned from the construction site
 Training has been done with subcontractors according to environmental protection and waste management.
 Note: (2 piece waste bin provided)

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| Agreed Close-out Date |
| Date: 24.05.2020 |


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| Contractor's Representative:  | Signature:  |
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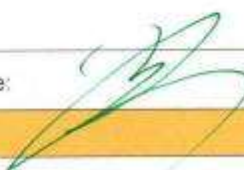


Part 3 – Inspection (evidence to support corrective action implementation)


Done (photo)

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|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 24.05.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  Member of the Surbana Jurong Group |
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| Part 1 – Non-Conformance Description: | | | |
| Reference Number: | ENCR_047 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 21/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 4 Portal No. 2 | | |
| Non-Conformance details: | | | |
| Generator without drip tray leaking oilproduct. | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Part 2 – Corrective Actions (attach any supporting information) | | | |
| <p>Oil leaking problem solved , generator was repaired. Drip tray will be provided immediately.</p> | | | |
| | | | Agreed Close-out Date Date: 24.05.2020 |
| Contractor's Representative: | <i>Abolurakhmanov</i> | Signature: |  |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | |
| Done (Photos) | | | |
| Engineer's Representative: | Giorgi Shiukashvili | Signature: |  |
| Closure Date: | 24.05.2020 | | |

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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Subsea Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_048 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 29/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Km 12+000 – Km 13+000 | | |

Non-Conformance details:

Oil spill from former oil storage area.
It Should be covered before final dismantling and disposal.

| | |
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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Oil storage area has been removed from the construction site.

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| Agreed Close-out Date |
| Date: 30.05.2020 |


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|--|--|
| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
|--|--|

Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|-------------|
| Closure Date: | 30.05.20.20 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Suez Canal Authority</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_049 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 29/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Bridge No. 12-13 | | |

Non-Conformance details:
 Construction/household waste.
 Burned waste.
 Waste concrete is poured into the watercourse.

| | |
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| Engineer's Representative: Giorgi Shlukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)

Construction / household waste has been cleaned from the construction site .
 Burned waste has been cleaned from the construction site .
 Spilled concrete has been cleaned .

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| Agreed Close-out Date |
| Date: 01.06.2020 |


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| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done

| | |
|--|--|
| Engineer's Representative: Giorgi Shlukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 01.06.2020 |
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| Polatyol | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Sellen Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_050 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 29/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 5, Portal No. 1 | | |

Non-Conformance details:
 Household waste (plastic) is scattered over the area.
 No waste bin.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Household waste has been cleaned from the construction site, waste bin will be provided.

| |
|-----------------------|
| Agreed Close-out Date |
| Date: 01.06.2020 |


| | |
|--|--|
| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
|--|--|

Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 01.06.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Eurasia Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_051 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 29/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 5, Portal No. 1 | | |

Non-Conformance details:

Oil spill from oil container which should be removed from the construction site immediately.

| | |
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| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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Part 2 – Corrective Actions (attach any supporting information)


Oil container has been removed from the construction site.

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| Agreed Close-out Date |
| Date: 30.05.2020 |


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|--|--|
| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)

Done (Photos)

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 30.05.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Sellen Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_052 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 29/05/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Tunnel No. 4, Portal No. 2 | | |

Non-Conformance details:

Household waste (plastic) is scattered over the area.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Household waste has been cleaned from the construction site.

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| Agreed Close-out Date |
| Date: 01.06.2020 |


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| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)


Done (Photos)

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|------------|
| Closure Date: | 01.06.2020 |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  <small>Member of the Tsurumi Group</small> |
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| Part 1 – Non-Conformance Description: | | | | | |
| Reference Number: | ENCR_053 | | | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 11/06/2020 | | |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | | | |
| Location: | Tunnel No. 1, Portal No. 2 | | | | |
| Non-Conformance details: | | | | | |
| Surrounding territory and watercourse is polluted by concrete. | | | | | |
| Engineer's Representative: Giorgi Shiukashvili | Signature:  | | | | |
| Part 2 – Corrective Actions (attach any supporting information) | | | | | |
| Spilled concrete has been cleaned from the construction site . | | | | | |
| | | | <table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 20.06.2020</td> </tr> </table> | Agreed Close-out Date | Date: 20.06.2020 |
| Agreed Close-out Date | | | | | |
| Date: 20.06.2020 | | | | | |
| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  | | | | |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | | | |
| Done (Photos) | | | | | |
| Engineer's Representative: Giorgi Shiukashvili | Signature:  | | | | |
| Closure Date: | 12.06.2020 | | | | |

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| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Sauria Joint Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_054 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 24/06/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Precast Yard | | |


Non-Conformance details:
 Oil spill from oil storage area
 Contaminated soil should be removed to the dumpsite.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)


Contaminated soil has been removed from the construction site.


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| Agreed Close-out Date |
| Date: 30.06.2020 |

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| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
|--|--|

Part 3 – Inspection (evidence to support corrective action implementation)

Done

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
| Closure Date: | 30.06.2020 |

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|-----------------|--|--|
| Polatyol | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Suez Canal Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_055 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 24/06/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Plant Yard | | |

Non-Conformance details:

Construction machines and vehicles are being repaired outside and oil spills on the ground.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)

Oil spill has been removed from the plant yard.

| |
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| Agreed Close-out Date |
| Date: 30.06.2020 |


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| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)


Done

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
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|---------------|-------------------|
| Closure Date: | <i>30.06.2020</i> |
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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
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| Part 1 – Non-Conformance Description: | | | | | |
| Reference Number: | ENCR_056 | | | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 24/06/2020 | | |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | | | |
| Location: | Plant Yard | | | | |
| Non-Conformance details: | | | | | |
| Oil barrels are stored uncovered near oil storage area. | | | | | |
| Engineer's Representative: Giorgi Shiukashvili | Signature:  | | | | |
| Part 2 – Corrective Actions (attach any supporting information) | | | | | |
| Oil barrels were covered. | | | | | |
| | | | <table border="1"> <tr> <td>Agreed Close-out Date</td> </tr> <tr> <td>Date: 30.06.2020</td> </tr> </table> | Agreed Close-out Date | Date: 30.06.2020 |
| Agreed Close-out Date | | | | | |
| Date: 30.06.2020 | | | | | |
| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  | | | | |
| Part 3 – Inspection (evidence to support corrective action implementation) | | | | | |
| Done | | | | | |
| Engineer's Representative: Giorgi Shiukashvili | Signature:  | | | | |
| Closure Date: | 30.06.2020 | | | | |

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| Polatyo! | Environmental Non-Conformance Report (ENCR) |  SMEC <small>Member of the Surbana Jurong Group</small> |
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Part 1 – Non-Conformance Description:

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|-------------------|-------------------------------|--------------|------------|
| Reference Number: | ENCR_057 | | |
| Project Name: | Batumi Bypass Road Project | Date raised: | 24/06/2020 |
| Contractor Name: | POLATYOL & MAPA JOINT VENTURE | | |
| Location: | Plant Yard | | |

Non-Conformance details:
 Oil spill from the refuelling station.
 Area should be well insulated to prevent leak.

| | |
|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
|--|--|

Part 2 – Corrective Actions (attach any supporting information)

Refuelling station has been insulated to prevent leak.

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| Agreed Close-out Date |
| Date: 30.06.2020 |

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| Contractor's Representative: Ayaz ABDURAHMANOV | Signature:  |
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Part 3 – Inspection (evidence to support corrective action implementation)



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|--|--|
| Engineer's Representative: Giorgi Shiukashvili | Signature:  |
| Closure Date: | 30.06.2020 |

Annex 6. Training

AIDS training 06.02.2020



ATTENDANCE REGISTER

| No | Name, Surname | Company | Position | Signature |
|----|-------------------|-------------------|-------------------|-------------------|
| 1 | Иванов Иван | Иванов Иван | Иванов Иван | Иванов Иван |
| 2 | Петров Петр | Петров Петр | Петров Петр | Петров Петр |
| 3 | Сидоров Сидор | Сидоров Сидор | Сидоров Сидор | Сидоров Сидор |
| 4 | Куликов Александр | Куликов Александр | Куликов Александр | Куликов Александр |
| 5 | Михайлов Михаил | Михайлов Михаил | Михайлов Михаил | Михайлов Михаил |
| 6 | Васильев Василий | Васильев Василий | Васильев Василий | Васильев Василий |
| 7 | Смирнов Сергей | Смирнов Сергей | Смирнов Сергей | Смирнов Сергей |
| 8 | Борисов Борис | Борисов Борис | Борисов Борис | Борисов Борис |
| 9 | Дмитриев Дмитрий | Дмитриев Дмитрий | Дмитриев Дмитрий | Дмитриев Дмитрий |
| 10 | Попов Павел | Попов Павел | Попов Павел | Попов Павел |
| 11 | Соколов Алексей | Соколов Алексей | Соколов Алексей | Соколов Алексей |
| 12 | Степанов Степан | Степанов Степан | Степанов Степан | Степанов Степан |
| 13 | Лавров Лев | Лавров Лев | Лавров Лев | Лавров Лев |
| 14 | Семин Семён | Семин Семён | Семин Семён | Семин Семён |
| 15 | Ульянов Алексей | Ульянов Алексей | Ульянов Алексей | Ульянов Алексей |
| 16 | Иванов Иван | Иванов Иван | Иванов Иван | Иванов Иван |
| 17 | Иванов Иван | Иванов Иван | Иванов Иван | Иванов Иван |
| 18 | Иванов Иван | Иванов Иван | Иванов Иван | Иванов Иван |
| 19 | Иванов Иван | Иванов Иван | Иванов Иван | Иванов Иван |
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HSE training 13.01.2020



Public liaison meeting 10.06.2020



Annex 7. Agreement for dump site



4572-01-01-10-7-201811191453

N 01-01-10/4572
19/11/2018

უცხოური საქარმის სს „ვილიაი იოლ იაფი ხანაი ვე თიჯარეთ“-ის
საქართველოს ფილიალის დირექტორს აიდიან დოლაის
თურ. მის.: ქ. თბილისი, ლავისი N39
დაქტ. მის.: ქ. ხათუმო, თბილისის ქ. N87
ს/ნ 404903707
საჯ. პირ. ტელ: 595 61 56 56

ბატონო აიდიან,

თქვენი 2018 წლის 01 ოქტომბრის NTMO/18/0092 წერილის შესახებ დამატებითი
ფაქტობები, რომ აჭარის ავტონომიური რესპუბლიკის ფინანსთა და ეკონომიკის სამინისტრო
არ არის წინააღმდეგი, უცხოური საქარმის სს „ვილიაი იოლ იაფი ხანაი ვე თიჯარეთ“-ის
საქართველოს ფილიალში მოქმედი კომპლექსური შესაბამისად, ქ. ხათუმო,
აეროპორტისა და ეზაბრის დასახლებაში შედგარე აჭარის ავტონომიური რესპუბლიკის
საკუთრებაში არსებულ 2 ერთეულ არსასოფლო-სამეურნეო დანიშნულების მიწის საკუთრზე
(ს/კ 05.32.06.026 და ს/კ 05.32.05.022) განახორციელოს წერტილში ხსენებული მიწის მასის
დაყრა, იმ პირობით თუ აჭარის ავტონომიური რესპუბლიკას არ წარმოეშობა რაიმე სახის
ვალდებულება და სამუშაოების დასრულების შემდეგ დაფრული მიწის ნაკვეთი იქნება
შისწორებული.

ბატონისგან,

ჯანა დეტკარაძე

მინისტრი