

عنوان مقاله:

Review the situation and determining the position of fractures and zones of crushed rock tunnels and galleries inject water into the dam and powerhouse Seymareh Tomography

محل انتشار:

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خلاصه مقاله:

In this paper, we used intra-borehole seismic assays with shear and compressional waves, in order to complete geotechnical view obtained from excavations and dynamically evaluation of project area's soil layers by seismological engineering approach. Tomography study in supply water and grouting tunnel been done to identify crushed zone and cavity. For example in this study a 12- hydrophone streamer with spacing 2 m has been driven from 40 to 62 m in one borehole and sparker has been driven in another borehole at 44 m. (sarker must be located minimum 3 m under water level). With start of sparker, streamer receives the seismic wave and recorded by seismograph. This step repeated by stacking to reduce noise level and increase seismic signal. Then sparker has been located at depths 46, 48, 50, 52, 54, 56, 58 and 60 and each depth recorded in separated file. On the next step receivers have been located from 50 to 72 m and sparker located at 60, 62, 64, 66, 68 and 70. This trend is continuing to whole of depth that accessible swept. Data that has been recorded by seismograph has been saved digitally on diskette. The record length is 24 ms and sample rate is .024 ms in borehole tomography. This data is proceed and for each seismograph first break extracted. the input data (included location of seismic, source and first break) for each section is made. This file run in Geotmo software and by SIRT for each cell obtained velocity. In the end isovelocity section is prepared

کلمات کلیدی:

Tomography, tunnel, sparker, Geotmo, seismograph

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