

CONCLUSION

During the disaster relief operation for the 2016 Kumamoto Earthquake, we reaffirmed the importance of earthquake measures. In order to smooth restoration works when receiving assistance/relief, we created prioritized pipeline maps for emergency restoration. By utilizing the maps, we can early establish place where citizens receive water in case of disaster, and we don't have to send water trucks to some important facilities. The information of facilities equipped for disaster countermeasures has not been in a state where other utilities can utilize it quickly or easily. Maps and workflows that collect this information will be important material for emergency restoration. However, since these materials alone are inadequate for restoration when receiving external assistance/relief, we must organize detailed maps and procedures for restoration efforts. In addition, by creating an emergency restoration plan of the water supply and sewage systems in cooperation with offices that manage sewage works, it is possible to perform more efficient emergency restoration.

What water utilities have to do for future earthquakes is to provide safe water to citizens as soon as possible. To this end, we have to anticipate the possible damage to the facilities, plan restoration in advance, and restore suffered facilities in the most efficient way.

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