



## EMERGENCY RESPONSE – PADANG EARTHQUAKE

**Background:** An earthquake measuring 7.9 on the Richter scale devastated Padang in West Sumatra, Indonesia on September 30, 2009. More than 1,100 people lost their lives whilst BNPB data revealed that more than 100,000 homes were seriously damaged in the quake and there was major damage to 2,164 school buildings, 254 office buildings, 1,003 houses of worship and 51 health facilities.

The state owned waterworks in Padang city suffered a Rupiah 45 billion material loss from damage to main pipelines, water processing equipment and the company's office following the earthquake. Bottled water has been distributed by some NGOs but this is not sufficient to meet demand. Most people cannot afford to purchase bottled water, as the cost of water has doubled from 4,500 rupiahs (\$0.47) before the earthquake, to 8,000 rupiahs (\$0.94) per gallon.

The needs are huge in Padang and the outlying areas. Needs go beyond the initial emergency supplies; reconstruction is also required.

SkyJuice Foundation Projects Director, Mr Larry James, travelled to Padang as part of the coordinated reconstruction response to this disaster. Larry worked closely with other agencies, including local government, local NGO's (Susila Dharma), Australian NGO's (Surfaid) and international NGO's (UNICEF and Arche Nova) to deploy five (5) SkyHydrant water purification units.



***Shattered lives and buildings in Padang, West Sumatra***



***Collapsed House of Worship with new SkyHydrant system in the background***

Three of the units were deployed in early November, and a further two units will be installed in December by SurfAid and Arche Nova. The three units deployed were in three separate locations:

- ❖ Jati Bawah Buluh – This water treatment system is serving approximately 120 families. It is anticipated that the unit will remain as an integral component of the medium term water supply.
- ❖ Kubu Anau, Agam District – this unit is serving approximately 170 families plus nearby villages.



**Children enjoying a drink of safe water from the SkyHydrant water treatment system**

- ❖ Padang Karambia, Pariaman District. This unit is serving approximately 143 families (approximately 500 people altogether) plus the nearby village.

Two of the locations are in some of the worst hit villages, outside of Padang city - this is where much of the International NGO community's relief activities have been focused. The 1st unit is installed in a village in Padang city; while many relief organisations are now pulling out of Padang city, it remains an important relief focus and the provision of clean water is still a major priority.

The SkyJuice response is part of the greater relief effort, and whilst Larry James was in Padang he attended a WASH (Water and Sanitation) cluster meeting. Details on the specific location of the SkyHydrant systems and the number of beneficiaries served have been provided to the WASH committee to



**Families bring their 20 litre water containers to be filled with safe water from the SkyHydrant**

ensure our activities are coordinated within the greater relief response strategy.

The benefitting communities will not be burdened with ongoing expenses of new filter cartridges or expensive chemicals for water treatment. The SkyHydrant filter has a life of approximately 7 years if cleaned and maintained correctly, and the purification process does not require power or chemicals. The World Health Organisation estimate that 15 litres of water is the minimum required for a person's daily survival; drinking, cooking, hygiene and personal use. The SkyHydrant can purify approximately 700 litres of safe water per hour, plenty to meet the benefitting communities' needs. To ensure the viability of the SkyHydrant systems, arrangements were made with an international NGO to oversee operating and maintenance procedures, until the communities were confident to operate the systems independently

**Project Partners:** The SkyHydrant water purification units and ancillary equipment were funded from a consortium of partners, including Siemens' Water Technology employees in United States, Siemens Nederlands, Susila Dharma in Jakarta and family and friends of the SkyJuice Foundation. Your generous donation has made a real difference to the lives of thousands of people who had no choice but to drink unsafe water from the local well,. These areas are not serviced by the local water company; therefore the units will remain for medium term water supply.

Thank you for your support and generous donation