

Black Mesa Trust

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Project Summary

To supply water filter units and replacement filters to home owners on the Hopi Reservation due to the high levels of **Arsenic 3** and **Arsenic 5** along with other contaminants in the water such as **Vanadium** and **Uranium** in the First Mesa, Second Mesa and Moenkopi Villages.

Narrative

The **#NOARSENIC4HOPI Project** is a new project that was started by our organization the Black Mesa Trust, which is a non-profit organization based in Kykotsmovi, AZ. The project was created in October of 2017 by our organization to address the long going issue of contaminated drinking water in the First Mesa, Second Mesa and Moenkopi Villages. The waters in these villages are contaminated with high levels of Arsenic 3 and Arsenic 5 as well as some Vanadium and Uranium. Since 2001 when the Environmental Protection Agency dropped the Arsenic level readings from **0.50 parts per billion (ppb)** to **0.10 parts per billion (ppb)**, the Hopi Tribe has since been out of compliance of the Clean Water Act. The Hopi Tribe has been addressing this issue with several Government and Tribal agencies like the Indian Health Services, Environmental Protection Agency, Bureau of Indian Affairs and the villages of First and Second Mesa's. Together they have planned and organized a water pipeline project called the **Hopi Arsenic Mitigation Project**, aka **H.A.M.P.**, to bring clean water from the Turquoise Trail area 15 miles North of the villages effected by the high levels of arsenic. Unfortunately, due to political litigations and financial issues between the entities mentioned, the H.A.M.P. Project did not progress forwardly as planned. The element **Arsenic (As)** is listed as #33 in the periodic table with an atomic weight of 74.922 and has two form types, **arsenic 3** and **arsenic 5** with arsenic 3 being more toxic and a smaller molecule. These elements have been known to cause many types of health issue like non-cancerous effects such as cardiovascular, pulmonary, immunological, neurological and endocrine effects as well as several types of cancerous effect such as skin, lung, nasal passages, bladder and prostate cancer. **Vanadium (V)** is a rare, soft,

ductile gray-white element that is never found unbounded in nature, it usually occurs in 65 different minerals and is listed as #23 in the periodic table with an atomic weight of 50.942. It too has serious health affects with high levels and longevity of consumption such as cardiac and vascular disease, inflammation of stomach and intestines, damage to nervous system, severe trembling and paralyses and behavioral changes but mostly it will depend on what the oxidic state the vanadium is in. In the past years, we have noticed the continuous rise in health issues from diabetes to cancer among our youth and elderly community members. It is known that not everyone has the money or the transportation to travel to get clean water. We feel this is a much-needed project to help with the arsenic problem in a small direct-action movement until the H.A.M.P. Project can be completed which is estimated to be by 2023. Until then the Hopi communities of First and Second Mesa, with an estimated population of **4,060 residents (Moenkopi village not included)**, will have to continue to drink the contaminated water. The #NOARSENIC4HOPI project will provide water filter units to homeowners in the First Mesa villages (**580 homes estimated**), Second Mesa villages (**435 homes estimated**) and Moenkopi village (**Need data**) with a single unit or a double unit depending on what type of arsenic and other contaminates that are in the village waters. In order to initiate the filter project, we the Black Mesa Trust Organization, teamed up with several organizations to help with this project. The Clean Water Foundation from Seattle, WA is the primary organization that is the supplier of the filters, the Natural Choice Network from Bellevue, WA is helping raise awareness and funds, the Dr. Emoto Peace Project from Japan is helping raise awareness and funds and the Out of this World Radio Show in Bellevue, WA is helping with bringing awareness and raising funds but mostly is our source in reaching out to the public as well as the Hopi paper and radio. The Clean Water Foundation has done a lot of outreach for the several water projects they are currently involved with and does plan to reach out to the Seminole Tribe in Florida. As we are reaching out to the Fort McDowell Tribe for this project, not only are we planning to help our communities, but we are also reaching out to the Navajo communities that are also affected by contaminated waters. Please remember that these entities are not only raising the funds for the #NOARSENIC4HOPI Project but for other communities worldwide. The #NOARSENIC4HOPI Project started in October of 2017 and was officially announced in March of 2018 through the Out of the World Radio Show in Bellevue, WA. The project was announced several time through out the year and in November of 2017 a woman from Idaho contributed \$30,000 dollars to the project from which we were able to purchase a total of 150 water filter both single and double filter units along with a Portable Solar Unit to cover real rural areas on Hopi lands. At this point, we still need a estimated amount of \$174,375 to assist in pursuing our goal of purchasing water filter units for the remaining community homeowners in First and Second Mesa areas and another \$19,260 to continue the project by purchasing replacement filters for the next four to five years until the H.A.M.P. Project can be completed. Donations to our #NOARSENIC4HOPI Project are being accepted through the Clean Water Foundation, all donations are tax deductible.

#NOARSENIC4HOPI

Estimated Budget

Homes and Schools

# Homes/Schools	Filter Type	Retail Price	Discount Price	Total
First Mesa Homes (580)	580 X Double Filter Unit	\$600.00	\$250.00 each	\$145,000 - \$12,500
* Donation (50)	- 50		\$250.00 each	
Remaining homes	530 X		\$250.00	\$132,500
Second Mesa Homes (435)	435 X Single Filter Unit	\$400.00	\$125.00 each	\$54,375 - \$12,500
* Donation (100)	- 100		\$125.00 each	
Remaining homes	335 X		\$125.00	\$41,875
First Mesa Schools (3)	More data needed	\$	\$	\$
Second Mesa School (1)	More data needed	\$	\$	\$
TOTAL	865			\$174,375

* Note – A \$30,000-dollar donation was given in November 2017. A \$5,000-dollar Portable Solar Unit was also purchased with the donation.

* Moenkopi Village not included in data.

Replacement Filters

Replacement Filter Types

# of Homes/Schools	Filter Type	Retail	Cost	# Pkg.	Total
First Mesa (580)	Arsenic 3 filter w/ Uranium filter (4 pkg)	\$200.00	\$99.00	145	\$14,355
Second Mesa (435)	Arsenic 5 filter (pkg of 4)	Up to \$250	\$45.00	109	\$4,905
Schools (4)	More data needed	N/A	N/A		N/A
TOTAL					\$19,260