

Twenty-two soil/sediment sampling sites



PFAS analysis results from twenty-two soil/sediment sampling spots

* unit : ug/kg

Source type	PFAS potential contamination sites	Sample ID	PFAS (SUM)	Perfluoroalkyl acids			Perfluoroalkyl sulfonates			Sample type
				PFHpA	PFOA	PFNA	PFBs	PFHxS	PFOS	
Point source	GWA wastewater pump station site	1	2.73	< MDL	0.56	1.53	< MDL	0.64	< MDL	Choat river sediment
		2	3.90	< MDL	0.79	2.16	< MDL	0.95	< MDL	Choat river sediment
		3	5.02	< MDL	0.67	2.82	< MDL	1.53	< MDL	Sewage hole sediment
		4	28.29	0.61	6.08	14.4	0.13	5.57	1.5	Sewage hole soil
		5	3.84	< MDL	0.65	2.07	< MDL	1.12	< MDL	Choat river sediment
		6	4.35	< MDL	0.74	1.93	< MDL	1.18	0.5	Choat river sediment
	Korean Air crash site	7	2.94	< MDL	0.69	1.02	< MDL	1.23	< MDL	Soil
		8	2.27	< MDL	0.76	< MDL	0.76	0.75	< MDL	Soil
		9	3.01	< MDL	0.94	0.88	< MDL	1.19	< MDL	Choat river sediment
		10	7.46	< MDL	0.96	0.85	< MDL	1.28	4.37	Choat river sediment
Non-point source	Choat river	11	6.40	< MDL	1.17	4.19	< MDL	1.04	< MDL	Ponte river sediment
		12	12.00	0.23	1.38	< MDL	0.09	5.55	4.75	Ponding sediment
		13	1.79	< MDL	0.46	0.47	< MDL	0.86	< MDL	Ponding sediment
		14	2.06	< MDL	0.98	< MDL	< MDL	1.08	< MDL	Ponding sediment
	Agana height-ponding basins	15	3.93	< MDL	1.02	1.04	< MDL	1.18	0.69	Ponding sediment
		16	1.93	< MDL	0.59	0.14	< MDL	1.2	< MDL	Stormwater drainage sediment
		17	2.92	< MDL	0.75	0.36	0.13	1.05	0.63	Soil near well A-23
		18	3.39	< MDL	0.95	0.47	0.07	1.17	0.73	Stormwater drainage sediment
	Contaminated well site	19	2.22	< MDL	0.83	0.26	< MDL	1.13	< MDL	Soil near well A-25
		20	2.47	< MDL	0.87	0.25	< MDL	1.26	0.09	Agana spring sediment
	Agana swamp	21	3.27	< MDL	0.92	0.64	< MDL	1.42	0.29	Agana swamp sediment
		22	2.58	< MDL	0.61	0.94	< MDL	1.03	< MDL	Agana river sediment

PFAS potential contamination sites near production wells, A-23 & A-25

Source type	Site	Location	Main Issue
Point source	GW/A wastewater pump station site	SSE 0.8 km	The discharge of millions of gallons of wastewater into Choat river until 2006
	Korean Air crash site	SW 2.6 km	- Korean Air Flight 801 crashed in hilly terrain on August 6, 1997 - Fires reported to be burning there eight hours after impact
	Choat river	SE 1.8 km	Choat river flows next to the GW/A wastewater pump station and reach to Agana swamp
	Ponte river	W 1.3 km	- Ponte river starts from the valley next to Nimitz hill area where the Korean Air Flight 801 crashed - Distance between the Korean Air crash site and the source of the Ponte river is 600 m
Non-point source	Agana Height - ponding basins	W 0.3 ~1.0 km	- Main residential area in Hagatna - Agana Height stands at a height of approximately 60 m and gently slopes to the west - While the majority of houses in these two villages are connected to sewer lines, about 30% of homes in Agana Heights are on septic systems - The area is also prone to flooding during wet weather conditions. - Four ponding basins are connected into the underlying aquifer
	Contaminated well site	Radius 0.3 km from Well A-25	- Car sales parking lot and shopping malls are located - Stormwater drainages are connected to Agana swamp
	Agana swamp	NE 0.6 km	- Chronic illegal dumping has occurred since WWI - While the swamp itself rises several feet above mean sea level in places, the water table within it rarely varies by more than a few inches above this value except during extreme wet weather conditions - Hydrological gradient in the vicinity of well A-25 runs from west to east which precludes the possibility of swamp water infiltrating the aquifer at this point