



Water Sample Data

Map ID Ranking Sample Name Sample ID Field Type Longitude Latitude

1	27	Echo Spring No. 2	889670282005	Spring	110 54 54.578	35 16 53.061
2	24	Cottonwood Spring	889670282006	Spring	110 54 29.230	35 16 54.460
3	26	Cactus Basin Spring	889670282007	Spring	110 54 30.212	35 16 54.332
4	32	Chimney Butte Spring	889670282008	Spring	110 52 20.892	35 19 17.409
5	21	Coyote Spring	889670282009	Spring	110 52 38.452	35 20 37.019
6	22	Chandler Spring	889670282010	Spring	110 52 32.061	35 22 38.438
7	23	Dilko Chapter House	889641421001	Well	110 52 19.870	35 23 8.902
8	12	Shonto Spring	889670282004	Spring	110 52 54.341	35 24 39.023
9	2	Coyote Spring	889670282002	Spring	110 52 14.762	35 24 8.902
10	23	Loose Cottonwood Spring	889671118003	Spring	110 52 31.217	35 24 19.528
11	2	Teesto Chapter House	889641421001	Well	110 54 18.200	35 25 04.432
12	16	716 Hill	889641421002	Wind MBI	110 54 18.111	35 25 07.737
13	28	Cottonwood Spring	889671118002	Spring	110 54 18.200	35 25 04.432
14	19	Lakai Spring	889671118004	Spring	110 51 1.261	35 31 10.813
15	15	Shonto Spring	889671118005	Spring	110 52 27.034	35 32 52.141
16	17	Lakai Spring	889671118006	Spring	110 54 18.200	35 32 52.141
17	4	Majuba Spring	889670282007	Spring	110 52 14.868	35 32 52.141
18	17	Dug Spring	889670282008	Spring	110 52 14.868	35 32 52.141
19	9	Shonto Spring	889670282005	Spring	110 52 14.868	35 32 52.141
20	17	Indian Wells Chapter House	889641421001	Well	110 52 14.868	35 32 52.141
21	35	Margaret House	889670282006	Spring	110 52 12.990	35 34 4.574
22	13	Lakai Spring	889671118002	Spring	110 54 18.200	35 34 4.574
23	30	H-110 Spring	889670282009	Spring	110 52 19.870	35 34 12.796
24	33	Shonto Spring	889670282010	Spring	110 52 19.870	35 34 12.796
25	20	D-716 Spring	889670282003	Spring	110 52 28.785	35 37 2.705
26	18	Majuba Spring	889670282007	Spring	110 52 14.868	35 37 2.705
27	14	Coyote Spring	889670282002	Spring	110 50 14.149	35 29 45.793
28	25	Tank 507 W6	889629943000	Spring	110 51 23.251	35 31 6.490
29	25	Yucca Spring	889629943001	Spring	110 54 49.2	35 32 2.669
30	26	Tank 507 E	889629943002	Spring	110 51 23.251	35 32 2.669
31	11	H-60 Spring	889629943003	Spring	110 52 29.730	35 32 2.669
32	36	White Cone Spring	889670282008	Spring	110 54 49.2	35 35 56.633
33	6	White Cone Chapter House	889641421001	Well	110 54 49.2	35 35 56.633
34	39	Tank 177 S18	889670282009	Spring	110 52 14.868	35 35 41.699
35	34	Tank 177 S20	889670282010	Spring	110 52 14.868	35 35 41.699
36	37	Tank 177 S40	889670282011	Spring	110 52 14.868	35 35 29.286
37	41	Shonto Spring	889670282012	Spring	110 52 14.868	35 35 29.286
38	41	Shonto Spring	889670282013	Spring	110 52 14.868	35 35 29.286
39	41	Shonto Spring	889670282014	Spring	110 52 14.868	35 35 29.286
40	31	Lower Groveswood Chapter House	889641421006	Well	110 51 14.613	35 35 42.835
41	31	Groveswood Spring	889670282015	Spring	110 52 14.868	35 35 42.835
42	40	Groveswood Spring	889670282016	Spring	110 52 14.868	35 35 42.835

Water Sample Risk Assessment Ranking

Risk to Report to Public and Regulatory Materials

Ranking Map ID Sample Name Sample ID

1	38	Lower Groveswood Chapter House	889641421006
2	41	Culley Spring	889670282017
3	41	Chimney House	889670282018
4	17	Majuba Spring	889670282007
5	21	Teesto Chapter House	889641421001
6	33	White Cone Chapter House	889641421001
7	20	Indian Wells Chapter House	889641421001
8	19	Shonto Spring	889670282005
9	7	Dilko Chapter House	889641421001
10	16	Tank 507 I	889629943004
11	11	H-60 Spring	889629943003
12	8	Shonto Spring	889670282004
13	12	Lakai Spring	889671118002
14	27	Coyote Spring	889641421002
15	15	Shonto Spring	889671118005
16	12	716 Hill	889641421002
17	18	Dug Spring	889670282008
18	17	Majuba Spring	889670282007
19	14	Lakai Spring	889671118004
20	21	Coyote Spring	889670282002
21	5	Coyote Spring	889670282009
22	2	Cottonwood Spring	889671118002
23	10	Loose Cottonwood Spring	889671118003
24	2	Cottonwood Spring	889670282004
25	20	Yucca Spring	889629943001
26	30	Tank 507 E	889629943002
27	1	Echo Spring No. 2	889670282005
28	15	Cottonwood Spring	889671118002
29	28	D-716 Spring	889629943005
30	25	D-716 Spring	889670282003
31	40	Groveswood Spring	889670282016
32	4	Chimney House	889670282018
33	40	Margaret House	889670282006
34	35	Tank 203	889670282019
35	36	Tank 177 S40	889670282011
36	32	White Cone Spring	889670282008
37	36	Tank 177 S40	889670282011
38	3	Cactus Basin Spring	889670282006
39	26	Tank 177 S18	889670282009
40	42	Tank 177 S17	889670282010
41	30	Shonto Spring	889670282012
42	30	Shonto Spring	889670282013

Sample Sites

Low Risk: Total Cancer Risk is less than or equal to 1E-05 and Hazard Index is less than or equal to 1 and Lead is less than 1 and U is less than 30.

Some Risk: Total Cancer Risk is less than or equal to 6E-04 but greater than 1E-05 or Hazard Index is less than 10 but greater than 1 or Lead is less than 15 but greater than 1 and U is less than 30.

Mean Risk: Total Cancer Risk is greater than 6E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U is equal to or greater than 30.

Sample Site Legend:

- 170: 3.5
- 250: 7.4
- 500: 18.9
- 1000: 34.9
- 1200: 52.4

Historical Mine Locations

Mine: (Symbol)

Deposit: (Symbol)

Land Designations

Navajo Nation Boundary

Chapter Boundary

Aerial Survey Boundary

Elevation contour (meters)

Hydrography

State Land

Private Land

Woods/brushwood

BIDAHOCHI STUDY AREA

Aerial Flight Zones, Water Sample Locations, and Radiation Contours

United States Environmental Protection Agency Abandoned Uranium Mines Project

CH2M HILL BITUMI 10.08.01.0