Water

Field Number	Latitude	Longitude	Type	Code
06TCSP101	36.10004	-111.24124	spring	Kayenta
06TCSP102	36.09748	-111.25195	spring	Kayenta
06TCSP108	36.14666	-111.05683	spring	Navajo
06TCSP109	36.13478	-111.11230	spring	Navajo
06TCSP110A	36.14733	-111.08183	spring	Navajo
06TCSP110B	36.14733	-111.08183	spring	Navajo
06TCSP111	36.14731	-111.08239	spring	Navajo
06TCSP112	36.14749	-111.07861	spring	Navajo
06TCSP103	36.10863	-111.21998	spring	Navajo/Kayenta
06TCSP104	36.10928	-111.21930	spring	Navajo/Kayenta
06TCSP106	36.10560	-111.19793	spring	Navajo/Kayenta
06TCSP113	36.13314	-111.31224	spring	Navajo/Kayenta
06TCSP114	36.10604	-111.20536	spring	Navajo/Kayenta
06TCSP116	36.10476	-111.20869	spring	Navajo/Kayenta
06TCSP117	36.11550	-111.22997	spring	Navajo/Kayenta
06TCSW115	36.10390	-111.20054	SW	SW
06TCSW118A	36.17160	-111.20066	SW	SW
06TCSW118B	36.17160	-111.20066	SW	SW
06TCSP107	36.13306	-111.19019	well	Navajo
06TCGW105	36.12186	-111.21561	well	Navajo/Kayenta
MW-13d	36.12158	-111.20267	well	TC landfill deep
MW-2	36.12072	-111.19728	well	TC landfill shallow
MW-4	36.11967	-111.19892	well	TC landfill shallow
MW-6	36.12208	-111.20150	well	TC landfill shallow
MW-7	36.12206	-111.20264	well	TC landfill shallow
06TCSP119	36.17160	-111.20066	blank	
06TCSP119	36.17160	-111.20066	blank	
2% HNO3			blank	
Walker_pump_blank			blank	
2% HNO3			blank	

Water

Field Number	Sample attributes or comments	Sample Elevation (m)	Electrical Conductivity (µS/cm)	pH
06TCSP101	Goldtooth Spring	1,434	3,140	8.31
06TCSP102	Unnamed near Olive Tree	1,434	665	8.14
06TCSP108	Juanita Begay Spring	1,491	408	7.30
06TCSP109	Shonto Well	1,463	484	8.18
06TCSP110A	Unnamed spring east of 111	1,478	760	8.10
06TCSP110B	Unnamed spring east of 111	1,478	760	8.10
06TCSP111	Unnamed spring west of 110	1,478	640	8.40
06TCSP112	Leechee Da Si Kaid Spring	1,484	970	8.20
06TCSP103	Susungva Spring	1,436	379	7.44
06TCSP104	Moenkopi School Spring	1,436	349	7.35
06TCSP106	Unnamed near Moenkopi Wash	1,434	408	7.83
06TCSP113	Moenave Spring	1,507	527	7.90
06TCSP114	Rte 264 Roadcut Dripping Springs	1,449	210	8.33
06TCSP116	Unnamed Spring near Three Wise Men	1,443	294	7.54
06TCSP117	Unnamed Spring in Tuuvi Wash	1,447	837	7.83
06TCSW115	Moenkopi Wash at USGS gage	1,420	909	8.12
06TCSW118A	Pasture Canyon at USGS gage	1,527	252	8.02
06TCSW118B	Pasture Canyon at USGS gage	1,527	252	8.02
06TCSP107	Herbert Chee well	1,503	3,910	8.02
06TCGW105	Moenkopi Municipal well #1	1,470	604	8.74
MW-13d	TC landfill deep ground water	1,483	142	8.20
MW-2	TC landfill shallow leachate	1,490	1,004	6.60
MW-4	TC landfill shallow leachate	1,482	529	7.90
MW-6	TC landfill shallow leachate	1,481	2,824	7.30
MW-7	TC landfill shallow leachate	1,480	9,620	7.65
06TCSP119	Process Blank		12	7.44
06TCSP119	Process Blank		12	7.44
2% HNO3	Process Blank			
Walker_pump_blank	Process Blank			
2% HNO3	Process Blank			

Water

Field Number	Temperature (°C)	Dissolved Oxygen (mg/L)	$\delta^{18}O$ vs VSMOW	$\delta^{18}O$ vs VSMOW duplicate	δD ‰
06TCSP101	9.0		-8.7		-72.8
06TCSP102	11.9		-10.2		-82.7
06TCSP108	11.6		-8.2	-8.3	-69.9
06TCSP109	9.7		-9.2		-74.4
06TCSP110A	16.1	5.7	-8.4		-69.1
06TCSP110B	16.1	5.7	-8.4		-69.3
06TCSP111	15.8	4.9	-8.6		-70.4
06TCSP112	15.2	4.4	-8.6		-73.6
06TCSP103	16.7		-9.2		-73.3
06TCSP104	16.7		-8.9		-72.4
06TCSP106	11.0		-8.2		-69.8
06TCSP113	14.3		-10.2	-10.2	-81.8
06TCSP114	16.0	sat	-8.7		-72.3
06TCSP116	10.3	1.4	-8.8		-74.2
06TCSP117	7.9		-9.1		-77.2
06TCSW115	10.0	sat	-9.8		-78.5
06TCSW118A	12.5	sat	-9.0		-74.9
06TCSW118B	12.5	sat	-9.0		-77.0
06TCSP107	12.7	2.2	-7.7		-69.4
06TCGW105	17.9		-9.5		-76.5
MW-13d	14.0	7.2	-8.9		-74.6
MW-2	13.7	0.1	-8.3		-71.5
MW-4	13.7	3.9	-8.5	-8.4	-74.9
MW-6	13.8	4.3	-8.2		-72.2
MW-7	16.0	7.78	-8.1		-73.9
06TCSP119	15.7	sat			
06TCSP119	15.7	sat			
2% HNO3					
Walker_pump_blank					
2% HNO3					

Water

Field Number	δD ‰ duplicate	Tritium TU	Tritium 1 SD error TU	pMC	pMC 1 SD error
06TCSP101		0.8	0.29		
06TCSP102		0.7	0.24		
06TCSP108		2.2	0.32		
06TCSP109	-71.9	1.1	0.29		
06TCSP110A		1.0	0.24		
06TCSP110B		1.6	0.26		
06TCSP111		1.1	0.27		
06TCSP112		0.9	0.23		
06TCSP103	-73.9	0.6	0.27	60.7	0.4
06TCSP104		<0.4			
06TCSP106	-68.9	1.4	0.25	88.6	0.5
06TCSP113		<0.7			
06TCSP114	-71.3	1.0	0.27		
06TCSP116		1.0	0.25		
06TCSP117		1.2	0.28		
06TCSW115	-80.2	2.3	0.43		
06TCSW118A		4.9	0.37	86.6	0.5
06TCSW118B					
06TCSP107		<1.2			
06TCGW105		0.7	0.33		
MW-13d		1.3	0.28		
MW-2		1.0	0.24		
MW-4		4.4	0.19		
MW-6		445.0	4.00		
MW-7		16.3	0.50	108.5	0.5
06TCSP119					
06TCSP119					
2% HNO3					
Walker_pump_blank					
2% HNO3					

Water

Field Number	Measured during pMC analysis $\delta^{13}C$ ‰	$\delta^{13}C$ ‰	$\delta^{34}S$ ‰	$^{87}Sr/^{86}Sr$	$^{87}Sr/^{86}Sr$ 1 SD error
06TCSP101		-7.4	6.1		
06TCSP102		-6.6	6.0		
06TCSP108		-5.5	-2.0		
06TCSP109		-4.9	3.4		
06TCSP110A		-7.5			
06TCSP110B		-6.4	5.4		
06TCSP111		-4.6	1.7		
06TCSP112		-6.5	2.5		
06TCSP103	-8.3	-5.4	2.2		
06TCSP104		-6.4	4.9		
06TCSP106	-6.4		1.7		
06TCSP113		-4.6	7.0		
06TCSP114			4.3		
06TCSP116		-7.9	0.9		
06TCSP117		-8.5	8.1		
06TCSW115		-7.3	-9.4		
06TCSW118A	-8.0	-8.1	7.1		
06TCSW118B					
06TCSP107		-9.8	25.8		
06TCGW105		-6.4	9.5		
MW-13d		-4.9	5.6		
MW-2		-8.5	0.4		
MW-4		-5.9	3.5		
MW-6		-9.3	6.4		
MW-7	-8.0	-6.1	4.3		
06TCSP119					
06TCSP119					
2% HNO3					
Walker_pump_blank					
2% HNO3					

Water

Field Number	ICP_H2O Ag ug/L	ICPMS_H2O Al ug/L	ICPMS_H2O As ug/L	ICP_H2O B ug/L	ICPMS_H2O Ba ug/L
06TCSP101	<2	7.9	16.3	329	39
06TCSP102	<2	3	3.8	138	29.6
06TCSP108	<2	2.1	<1	43	107
06TCSP109	<2	7.8	4.9	60	67.8
06TCSP110A	<2	3.7	<1	209	96.5
06TCSP110B	<2	6.5	<1	201	96.7
06TCSP111	<2	7.2	2	190	69
06TCSP112	<2	8.7	4.2	329	41.8
06TCSP103	<2	<2	2	40	53.9
06TCSP104	<2	2.5	2	50	57.2
06TCSP106	<2	3	2	33	106
06TCSP113	<2	2.8	2	42	47.7
06TCSP114	<2	2.9	3	29	36
06TCSP116	<2	23.2	2	38	35.4
06TCSP117	<2	3.5	2	71	74.6
06TCSW115	<2	3.5	<1	64	56.1
06TCSW118A	<2	4	2	28	63.4
06TCSW118B	<2	3.2	2	28	62.1
06TCSP107	<2	3.6	5.3	1800	57.4
06TCGW105	<2	3.2	5.8	322	35.7
MW-13d	<2	8.9	2	40	50.6
MW-2	<2	6.3	5.2	488	370
MW-4	<2	7.7	14.8	223	95.6
MW-6	<2	5.7	33.3	846	135
MW-7	<2	5	13.9	2690	22.2
06TCSP119	<2	2	<1	105	0.82
06TCSP119	<2	2.4	<1	102	0.77
2% HNO3	< 0.3	< 2	< 1		< 0.2
Walker_pump_blank	< 0.3	< 2	< 1		0.35
2% HNO3	< 0.3	< 2	< 1		< 0.2

Water

Field Number	ICPMS_H2O Be ug/L	ICPMS_H2O Bi ug/L	ICP_H2O Ca mg/L	ICPMS_H2O Cd ug/L	ICPMS_H2O Ce ug/L
06TCSP101	<0.05	< 0.2	13.3	<0.02	0.03
06TCSP102	<0.05	< 0.2	8.88	<0.02	< 0.01
06TCSP108	<0.05	< 0.2	39.2	<0.02	< 0.01
06TCSP109	1.4	< 0.2	17.8	<0.02	0.01
06TCSP110A	0.3	< 0.2	55.4	<0.02	0.01
06TCSP110B	0.4	< 0.2	56.4	<0.02	0.02
06TCSP111	<0.05	< 0.2	37.5	<0.02	0.03
06TCSP112	<0.05	< 0.2	45.5	0.02	0.02
06TCSP103	<0.05	< 0.2	35.5	<0.02	< 0.01
06TCSP104	<0.05	< 0.2	31.7	<0.02	< 0.01
06TCSP106	<0.05	< 0.2	29	0.14	0.01
06TCSP113	<0.05	< 0.2	40.2	<0.02	< 0.01
06TCSP114	<0.05	< 0.2	15.2	<0.02	< 0.01
06TCSP116	<0.05	< 0.2	18	<0.02	0.07
06TCSP117	<0.05	< 0.2	56.1	<0.02	0.02
06TCSW115	<0.05	< 0.2	75.8	<0.02	0.02
06TCSW118A	<0.05	< 0.2	32.5	<0.02	0.01
06TCSW118B	<0.05	< 0.2	31.8	<0.02	< 0.01
06TCSP107	1.9	< 0.2	95.7	<0.02	< 0.01
06TCGW105	<0.05	< 0.2	21.1	0.1	< 0.01
MW-13d	0.6	< 0.2	16.4	0.05	< 0.01
MW-2	<0.05	< 0.2	80.3	0.35	0.04
MW-4	0.4	< 0.2	41	0.07	< 0.01
MW-6	1.9	< 0.2	127	0.07	0.02
MW-7	4.4	< 0.2	486	0.07	0.06
06TCSP119	<0.05	< 0.2	0.25	<0.02	< 0.01
06TCSP119	<0.05	< 0.2	<0.1	<0.02	< 0.01
2% HNO3	< 0.05	< 0.2	< 0.2	< 0.02	< 0.01
Walker_pump_blank	< 0.05	< 0.2	0.91	< 0.02	< 0.01
2% HNO3	< 0.05	< 0.2	< 0.2	< 0.02	< 0.01

Water

Field Number	ICPMS_H2O Co ug/L	ICPMS_H2O Cr ug/L	ICPMS_H2O Cs ug/L	ICPMS_H2O Cu ug/L	ICPMS_H2O Dy ug/L
06TCSP101	0.1	3.5	0.03	4.3	< 0.005
06TCSP102	<0.02	<1	0.03	<0.5	< 0.005
06TCSP108	<0.02	1.1	< 0.02	<0.5	< 0.005
06TCSP109	0.34	<1	< 0.02	121	< 0.005
06TCSP110A	0.07	<1	< 0.02	26.8	< 0.005
06TCSP110B	0.08	1	< 0.02	28.8	< 0.005
06TCSP111	<0.02	1.1	< 0.02	0.89	0.008
06TCSP112	0.05	<1	< 0.02	81.5	< 0.005
06TCSP103	<0.02	1	0.04	<0.5	< 0.005
06TCSP104	<0.02	<1	0.04	<0.5	< 0.005
06TCSP106	<0.02	<1	< 0.02	1.6	< 0.005
06TCSP113	<0.02	<1	0.04	<0.5	< 0.005
06TCSP114	<0.02	<1	< 0.02	<0.5	< 0.005
06TCSP116	0.03	<1	< 0.02	<0.5	0.005
06TCSP117	0.04	<1	0.02	0.64	< 0.005
06TCSW115	0.12	<1	< 0.02	2	< 0.005
06TCSW118A	<0.02	<1	< 0.02	<0.5	< 0.005
06TCSW118B	<0.02	<1	< 0.02	<0.5	< 0.005
06TCSP107	0.65	2.8	< 0.02	131	< 0.005
06TCGW105	<0.02	1.1	0.06	1.5	< 0.005
MW-13d	0.05	<1	0.03	137	< 0.005
MW-2	0.71	<1	0.3	50.5	0.01
MW-4	0.07	<1	0.07	97.8	0.02
MW-6	0.32	2.5	0.03	291	0.01
MW-7	1.64	3.6	0.58	330	0.03
06TCSP119	<0.02	<1	< 0.02	<0.5	< 0.005
06TCSP119	<0.02	<1	< 0.02	<0.5	< 0.005
2% HNO3	< 0.02	< 1	< 0.02	< 0.5	< 0.005
Walker_pump_blank	< 0.02	1.4	0.04	< 0.5	< 0.005
2% HNO3	< 0.02	< 1	< 0.02	< 0.5	< 0.005

Water

Field Number	ICPMS_H2O Er ug/L	ICPMS_H2O Eu ug/L	ICP_H2O Fe ug/L	ICPMS_H2O Ga ug/L	ICPMS_H2O Gd ug/L	ICPMS_H2O Ge ug/L
06TCSP101	< 0.005	< 0.005	<20	< 0.05	< 0.005	< 0.05
06TCSP102	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.06
06TCSP108	< 0.005	0.009	<20	< 0.05	< 0.005	< 0.05
06TCSP109	< 0.005	0.006	91	< 0.05	< 0.005	< 0.05
06TCSP110A	< 0.005	0.008	27	< 0.05	< 0.005	< 0.05
06TCSP110B	< 0.005	0.007	35	< 0.05	< 0.005	< 0.05
06TCSP111	0.005	< 0.005	<20	< 0.05	< 0.005	< 0.05
06TCSP112	< 0.005	< 0.005	567	< 0.05	< 0.005	< 0.05
06TCSP103	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.08
06TCSP104	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.1
06TCSP106	< 0.005	0.006	<20	< 0.05	0.007	< 0.05
06TCSP113	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.1
06TCSP114	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.06
06TCSP116	< 0.005	< 0.005	38	< 0.05	0.006	< 0.05
06TCSP117	< 0.005	0.005	<20	< 0.05	< 0.005	< 0.05
06TCSW115	< 0.005	< 0.005	<20	< 0.05	< 0.005	< 0.05
06TCSW118A	< 0.005	0.005	29	< 0.05	< 0.005	< 0.05
06TCSW118B	< 0.005	< 0.005	29	< 0.05	< 0.005	< 0.05
06TCSP107	< 0.005	< 0.005	86	< 0.05	< 0.005	< 0.05
06TCGW105	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.1
MW-13d	< 0.005	< 0.005	<20	< 0.05	< 0.005	0.07
MW-2	0.008	0.02	<20	< 0.05	0.008	< 0.05
MW-4	0.01	0.007	<20	< 0.05	0.009	< 0.05
MW-6	< 0.005	0.01	<20	< 0.05	0.01	< 0.05
MW-7	0.03	0.005	<20	< 0.05	0.03	< 0.05
06TCSP119	< 0.005	< 0.005	<20	< 0.05	< 0.005	< 0.05
06TCSP119	< 0.005	< 0.005	<20	< 0.05	< 0.005	< 0.05
2% HNO3	< 0.005	< 0.005	< 50	< 0.05	< 0.005	< 0.05
Walker_pump_blank	< 0.005	< 0.005	< 50	< 0.05	< 0.005	< 0.05
2% HNO3	< 0.005	< 0.005	< 50	< 0.05	< 0.005	< 0.05

Water

Field Number	ICPMS_H2O Ho ug/L	ICP_H2O K mg/L	ICPMS_H2O La ug/L	ICPMS_H2O Li ug/L	ICPMS_H2O Lu ug/L
06TCSP101	< 0.005	1.95	0.01	140	< 0.1
06TCSP102	< 0.005	2.43	< 0.01	59.8	< 0.1
06TCSP108	< 0.005	2	< 0.01	26.2	< 0.1
06TCSP109	< 0.005	2.54	< 0.01	22.3	< 0.1
06TCSP110A	< 0.005	1.77	< 0.01	42.9	< 0.1
06TCSP110B	< 0.005	1.69	0.01	43.2	< 0.1
06TCSP111	< 0.005	0.86	0.02	38.4	< 0.1
06TCSP112	< 0.005	0.51	0.01	49.1	< 0.1
06TCSP103	< 0.005	1.36	< 0.01	23.2	< 0.1
06TCSP104	< 0.005	1.83	< 0.01	26.8	< 0.1
06TCSP106	< 0.005	2.34	0.01	49.6	< 0.1
06TCSP113	< 0.005	1.9	< 0.01	27	< 0.1
06TCSP114	< 0.005	1.79	0.01	28.6	< 0.1
06TCSP116	< 0.005	2.06	0.03	39.8	< 0.1
06TCSP117	< 0.005	2.33	< 0.01	42.3	< 0.1
06TCSW115	< 0.005	3.37	0.01	24.6	< 0.1
06TCSW118A	< 0.005	1.41	< 0.01	10.8	< 0.1
06TCSW118B	< 0.005	1.39	< 0.01	10.3	< 0.1
06TCSP107	< 0.005	14.3	< 0.01	147	< 0.1
06TCGW105	< 0.005	1.43	< 0.01	53.5	< 0.1
MW-13d	< 0.005	2.25	< 0.01	32.4	< 0.1
MW-2	< 0.005	3.04	0.02	39.6	< 0.1
MW-4	< 0.005	1.07	0.02	48.6	< 0.1
MW-6	< 0.005	8.09	0.01	202	< 0.1
MW-7	0.008	11.1	0.08	347	< 0.1
06TCSP119	< 0.005	<0.1	< 0.01	< 0.1	< 0.1
06TCSP119	< 0.005	<0.1	< 0.01	< 0.1	< 0.1
2% HNO3	< 0.005	< 0.03	< 0.01	< 0.9	< 0.1
Walker_pump_blank	< 0.005	0.2	< 0.01	1.2	< 0.1
2% HNO3	< 0.005	< 0.03	< 0.01	< 0.9	< 0.1

Water

Field Number	ICP_H2O Mg mg/L	ICPMS_H2O Mn ug/L	ICPMS_H2O Mo ug/L	ICP_H2O Na mg/L	ICPMS_H2O Nb ug/L
06TCSP101	3.76	1.5	10.6	484	
06TCSP102	1.57	0.3	< 2	123	
06TCSP108	9.14	0.2	< 2	27.1	
06TCSP109	4.41	4.4	2.4	85.2	
06TCSP110A	14.3	4.4	2.6	96.7	
06TCSP110B	13.9	4.6	2.6	91.2	
06TCSP111	10.2	<0.2	4.1	76.1	
06TCSP112	12.9	5.2	6.4	158	
06TCSP103	7.75	<0.2	< 2	27.3	
06TCSP104	7.82	<0.2	< 2	34.1	
06TCSP106	6.6	2	< 2	41.4	
06TCSP113	14	0.4	< 2	39.5	
06TCSP114	3.88	0.4	< 2	19.2	
06TCSP116	1.79	15.2	< 2	35.7	
06TCSP117	16.2	41.5	< 2	83.1	
06TCSW115	19.6	5.1	3	91.9	
06TCSW118A	5.5	6.4	< 2	11.9	
06TCSW118B	5.34	6.3	< 2	11.4	
06TCSP107	99.9	292	2.1	653	
06TCGW105	5.23	0.2	5.8	96.3	
MW-13d	3.91	0.3	2	14.5	
MW-2	38.5	4.7	32.1	111	
MW-4	14.5	0.2	4.2	55.1	
MW-6	71.6	2.2	11	444	
MW-7	246	2	30.3	1680	
06TCSP119	<0.1	<0.2	< 2	1.99	
06TCSP119	<0.1	0.5	< 2	1.85	
2% HNO3	< 0.01	< 0.2	< 2	< 0.5	< 0.2
Walker_pump_blank	0.72	< 0.2	< 2	2.33	< 0.2
2% HNO3	< 0.01	< 0.2	< 2	< 0.5	< 0.2

Water

Field Number	ICPMS_H2O Ni ug/L	ICPMS_H2O P mg/L	ICPMS_H2O Pb ug/L	ICPMS_H2O Rb ug/L	ICPMS_H2O Sb ug/L
06TCSP101	<0.4	0.02	0.08	1.07	
06TCSP102	<0.4	< 0.01	<0.05	1.44	
06TCSP108	<0.4	< 0.01	<0.05	0.94	
06TCSP109	0.7	< 0.01	3.6	1.26	
06TCSP110A	<0.4	< 0.01	0.6	0.66	
06TCSP110B	<0.4	< 0.01	0.51	0.67	
06TCSP111	<0.4	< 0.01	<0.05	0.62	
06TCSP112	0.6	< 0.01	6.7	0.45	
06TCSP103	<0.4	< 0.01	0.06	1.54	
06TCSP104	<0.4	0.01	<0.05	1.67	
06TCSP106	2.4	< 0.01	0.07	1.71	
06TCSP113	<0.4	< 0.01	<0.05	1.64	
06TCSP114	<0.4	< 0.01	<0.05	1.35	
06TCSP116	0.5	< 0.01	0.1	1.41	
06TCSP117	<0.4	< 0.01	<0.05	1.44	
06TCSW115	1.2	< 0.01	<0.05	0.56	
06TCSW118A	<0.4	< 0.01	<0.05	1.02	
06TCSW118B	<0.4	< 0.01	<0.05	0.99	
06TCSP107	1.1	0.06	0.56	4.18	
06TCGW105	<0.4	< 0.01	0.3	1.36	
MW-13d	<0.4	< 0.01	1.6	2.37	
MW-2	12.1	< 0.01	0.2	5.47	
MW-4	<0.4	< 0.01	0.92	1.07	
MW-6	<0.4	0.07	3.8	1.32	
MW-7	1.4	< 0.01	1.8	8.56	
06TCSP119	<0.4	< 0.01	<0.05	0.01	
06TCSP119	<0.4	< 0.01	<0.05	0.02	
2% HNO3	< 0.4	< 0.01	< 0.05	< 0.01	0.45
Walker_pump_blank	< 0.4	0.02	0.1	0.86	0.39
2% HNO3	< 0.4	< 0.01	< 0.05	< 0.01	< 0.3

Water

Field Number	ICPMS_H2O Sc ug/L	ICPMS_H2O Se ug/L	ICP_H2O SiO2 mg/L		ICP_H2O Sr ug/L
06TCSP101	1.3	20	19		450
06TCSP102	0.7	5.4	12.8		307
06TCSP108	0.6	3.9	12.8		1010
06TCSP109	< 0.6	3.8	12.4		368
06TCSP110A	0.8	2.8	16.5		999
06TCSP110B	0.7	2.7	16.1		953
06TCSP111	0.8	5.8	18		734
06TCSP112	1	12.1	21.6		809
06TCSP103	0.7	2.7	14.1		538
06TCSP104	0.6	1.9	15.5		651
06TCSP106	0.8	3.6	15.4		772
06TCSP113	< 0.6	3.6	13.4		628
06TCSP114	< 0.6	1.3	13.5		474
06TCSP116	0.7	1.4	14.3		227
06TCSP117	0.7	2.2	14		1220
06TCSW115	< 0.6	1.3	7.3		1130
06TCSW118A	< 0.6	1.3	12.2		283
06TCSW118B	< 0.6	1.2	12.2		272
06TCSP107	1.6	14.1	25.1		2200
06TCGW105	0.6	2.8	13.2		441
MW-13d	0.8	1.9	15.5		479
MW-2	1.3	16.2	20.4		2100
MW-4	0.9	6.7	16.2		902
MW-6	4.8	35.6	76.5		4510
MW-7	1.6	200	15.1		20000
06TCSP119	< 0.6	< 1	0.29		<1
06TCSP119	< 0.6	< 1	0.28		<1
2% HNO3	< 0.6	< 1	< 0.2		< 0.5
Walker_pump_blank	0.6	< 1	9.3		10.2
2% HNO3	< 0.6	< 1	< 0.2		< 0.5

Water

Field Number	ICPMS_H2O Th ug/L	ICPMS_H2O Ti ug/L	ICPMS_H2O Tl ug/L	ICPMS_H2O U ug/L	ICPMS_H2O U (NAU) ug/L
06TCSP101	< 0.2	2.5	<0.1	49.1	41
06TCSP102	< 0.2	< 0.5	<0.1	9.1	7.9
06TCSP108	< 0.2	< 0.5	<0.1	3.82	3.6
06TCSP109	< 0.2	< 0.5	<0.1	2.81	5.2
06TCSP110A	< 0.2	0.8	<0.1	3.26	3.9
06TCSP110B	< 0.2	1	<0.1	3.28	5.6
06TCSP111	< 0.2	0.8	<0.1	6.51	8.2
06TCSP112	< 0.2	1.6	<0.1	18.8	17
06TCSP103	< 0.2	< 0.5	<0.1	1.61	1.78
06TCSP104	< 0.2	< 0.5	<0.1	2.62	2.6
06TCSP106	< 0.2	< 0.5	<0.1	4.98	8.1
06TCSP113	< 0.2	< 0.5	<0.1	3.83	3.3
06TCSP114	< 0.2	< 0.5	<0.1	2.21	3.3
06TCSP116	< 0.2	< 0.5	<0.1	3.89	3.6
06TCSP117	< 0.2	0.9	<0.1	7.34	8.6
06TCSW115	< 0.2	2.4	<0.1	3.82	5.3
06TCSW118A	< 0.2	< 0.5	<0.1	1.08	1.35
06TCSW118B	< 0.2	< 0.5	<0.1	1.04	1.49
06TCSP107	< 0.2	6.1	<0.1	13.4	12.4
06TCGW105	< 0.2	0.7	<0.1	5.28	5.7
MW-13d	< 0.2	< 0.5	<0.1	5.3	4.7
MW-2	< 0.2	0.8	<0.1	66.9	43
MW-4	< 0.2	0.7	<0.1	15.1	13
MW-6	< 0.2	5.3	<0.1	37.7	28
MW-7	< 0.2	32	<0.1	245	175
06TCSP119	< 0.2	< 0.5	<0.1	< 0.1	< 0.01
06TCSP119	< 0.2	< 0.5	<0.1	< 0.1	< 0.01
2% HNO3	< 0.2	< 0.5	< 0.1	< 0.1	
Walker_pump_blank	< 0.2	< 0.5	< 0.1	< 0.1	
2% HNO3	< 0.2	< 0.5	< 0.1	< 0.1	

Water

Field Number	234U/238U Activity Ratio	234U/238U Activity Ratio 1 SD error	ICPMS_H2O V ug/L	ICPMS_H2O W ug/L	ICPMS_H2O Y ug/L	ICPMS_H2O Yb ug/L
06TCSP101	1.69	0.01	68.9	< 0.5	0.03	< 0.005
06TCSP102	1.84	0.02	22.8	< 0.5	0.05	< 0.005
06TCSP108	2.56	0.01	2.3	< 0.5	0.02	< 0.005
06TCSP109	2.67	0.02	9.9	< 0.5	0.02	< 0.005
06TCSP110A	2.38	0.01	0.8	< 0.5	0.02	< 0.005
06TCSP110B	2.34	0.02	1.1	< 0.5	0.03	< 0.005
06TCSP111	2.46	0.03	5	< 0.5	0.05	< 0.005
06TCSP112	2.32	0.01	10.6	< 0.5	0.02	0.005
06TCSP103	3.33	0.03	7.5	< 0.5	0.01	< 0.005
06TCSP104	3.09	0.04	6.4	< 0.5	0.02	< 0.005
06TCSP106	2.28	0.01	5.6	< 0.5	0.03	< 0.005
06TCSP113	3.17	0.03	5.7	< 0.5	0.01	< 0.005
06TCSP114	2.37	0.02	9.7	< 0.5	0.02	< 0.005
06TCSP116	2.29	0.04	5.2	< 0.5	0.04	< 0.005
06TCSP117	2.57	0.01	4.2	< 0.5	0.02	< 0.005
06TCSW115	1.81	0.03	1.1	< 0.5	0.04	< 0.005
06TCSW118A	3.17	0.04	7.5	< 0.5	0.01	< 0.005
06TCSW118B	3.21	0.03	7.3	< 0.5	0.01	< 0.005
06TCSP107	1.86	0.02	2.2	< 0.5	0.02	< 0.005
06TCGW105	2.79	0.01	12	< 0.5	< 0.01	< 0.005
MW-13d	1.67	0.02	7.8	< 0.5	0.02	< 0.005
MW-2	1.82	0.01	8.4	19	0.11	0.02
MW-4	1.55	0.01	94.4	0.78	0.16	0.01
MW-6	1.67	0.01	242	< 0.5	0.09	0.006
MW-7	1.78	0.01	5.3	25.8	0.41	0.03
06TCSP119	Not analyzable	NA	<0.5	< 0.5	< 0.01	< 0.005
06TCSP119	Not analyzable	NA	<0.5	< 0.5	< 0.01	< 0.005
2% HNO3			< 0.5	< 0.5	< 0.01	< 0.005
Walker_pump_blank			6.4	3.27	< 0.01	< 0.005
2% HNO3			< 0.5	< 0.5	< 0.01	< 0.005

Water

Field Number	ICPMS_H2O Zn ug/L		Alkalinity CaCO3 ppm	IC-Aq Cl ppm	IC-Aq F ppm	IC-Aq NO3 ppm	IC-Aq SO4 ppm
06TCSP101	2.6		431.6	427	2.9	4.5	175
06TCSP102	2.5		150.5	86	<.08	12	34
06TCSP108	4.3		100.04	24	0.1	6.6	49
06TCSP109	43.2		137.64	27	<.08	5.4	35
06TCSP110A	11.5		214.6	55	<.08	1	93
06TCSP110B	11.1		207.6	55	0.14	1	92.1
06TCSP111	4		140.64	46	<.08	7	94
06TCSP112	230		205.8	85	0.32	1.9	184
06TCSP103	1.5		91.02	28	0.3	12	37
06TCSP104	2.5		163.94	20	0.3	10	31
06TCSP106	7.7		108.02	42	0.1	3.1	40
06TCSP113	6.6		123.18	73	0.3	9.6	58
06TCSP114	2.3		75.1	8	0.4	7.8	11
06TCSP116	3.6		167.76	8.4	0.4	4.7	17.4
06TCSP117	2.3		185.5	68	0.7	3	110
06TCSW115	2.1		192.44	14	1.7	<.08	252
06TCSW118A	2.1		99.88	6.2	0.3	9	14.5
06TCSW118B	1.8		108.56	6.2	0.3	9.3	14.4
06TCSP107	41.2		810.12	551	3.5	7	564
06TCGW105	13.9		118.88	53	0.5	7.6	89
MW-13d	19.7		70.12	5.2	0.4	7.2	10
MW-2	29		348.2	116	0.74	1.1	85
MW-4	16.1		146.8	27	0.4	10.2	80
MW-6	44.2		397.2	401	1.7	117	522
MW-7	151		409.8	1390	<.08	40	3032
06TCSP119	1.7		9.746	<.08	<.08	<.08	<1.6
06TCSP119	1.6		10.738	<.08	<.08	<.08	<1.6
2% HNO3	< 0.5						< 2
Walker_pump_blank	< 0.5						< 2
2% HNO3	< 0.5						< 2

Leachates

Field Number	Latitude	Longitude	Type	Code
06TCRK-R-129	35.87605	-111.39236	rock leach	Chinle, PF
06TCRK-R-49b	35.81931	-111.37167	rock leach	Chinle, PF
06TCRK-R-102	36.12524	-111.40441	rock leach	Chinle, Sh
06TCRK-R-105	36.10471	-111.39783	rock leach	Chinle, Sh
06TCRK-R-44	35.84278	-111.37859	rock leach	Chinle, Sh
06TCRK115B	36.10390	-111.20054	rock leach	Kayenta
06TCRK102B	36.09748	-111.25195	rock leach	Navajo Ss
06TCRK109A	36.13985	-111.10401	rock leach	Navajo Ss
06TCRK109AA	36.13478	-111.11230	rock leach	Navajo Ss
06TCRK109B	36.13985	-111.10401	rock leach	Navajo Ss
06TCRK109C	36.13985	-111.10401	rock leach	Navajo Ss
06TCRK-103	36.10863	-111.21998	rock leach	Navajo/Kayenta
06TCRK114A	36.10604	-111.20536	rock leach	Navajo/Kayenta
06TCRK114B	36.10476	-111.20869	rock leach	Navajo/Kayenta
06TCRK114C	36.10476	-111.20869	rock leach	Navajo/Kayenta
06TCEV115C	36.10390	-111.20054	rock leach	Navajo/Kayenta
06TC-SS-S-129	35.87605	-111.39236	sed leach	Chinle, PF
06TCSS-S-49b	35.81931	-111.37167	sed leach	Chinle, PF
06TCSS-S-103	36.12705	-111.40659	sed leach	Chinle, Sh
06TCSS-S-105	36.10471	-111.39783	sed leach	Chinle, Sh
06TCSS-S-44	35.84278	-111.37859	sed leach	Chinle, Sh
06TCSS115A	36.10390	-111.20054	sed leach	Navajo Ss
06TCSS118	36.17160	-111.20066	sed leach	Navajo Ss
06TCSS102A	36.09748	-111.25195	sed leach	Navajo/Kayenta

Solid-phase

Field Number	Latitude	Longitude	Type	Code
06TCRK-R-129	35.87605	-111.39236	rock	Chinle, PF
06TCRK-R-49b	35.81931	-111.37167	rock	Chinle, PF
06TCRK-R-102	36.12524	-111.40441	rock	Chinle, Sh
06TCRK-R-105	36.10471	-111.39783	rock	Chinle, Sh
06TCRK-R-44	35.84278	-111.37859	rock	Chinle, Sh
06TCRK115B	36.10390	-111.20054	rock	Kayenta
06TCRK102B	36.09748	-111.25195	rock	Navajo Ss
06TCRK109A	36.13985	-111.10401	rock	Navajo Ss
06TCRK109AA	36.13478	-111.11230	rock	Navajo Ss
06TCRK109B	36.13985	-111.10401	rock	Navajo Ss
06TCRK109C	36.13985	-111.10401	rock	Navajo Ss
06TCRK-103	36.10863	-111.21998	rock	Navajo/Kayenta
06TCRK114A	36.10604	-111.20536	rock	Navajo/Kayenta
06TCRK114B	36.10476	-111.20869	rock	Navajo/Kayenta
06TCRK114C	36.10476	-111.20869	rock	Navajo/Kayenta
06TCEV115C	36.10390	-111.20054	rock	Navajo/Kayenta
06TC-SS-S-129	35.87605	-111.39236	sediment	Chinle, PF
06TCSS-S-49b	35.81931	-111.37167	sediment	Chinle, PF
06TCSS-S-103	36.12705	-111.40659	sediment	Chinle, Sh
06TCSS-S-105	36.10471	-111.39783	sediment	Chinle, Sh
06TCSS-S-44	35.84278	-111.37859	sediment	Chinle, Sh
06TCSS115A	36.10390	-111.20054	sediment	Navajo Ss
06TCSS118	36.17160	-111.20066	sediment	Navajo Ss
06TCSS102A	36.09748	-111.25195	sediment	Navajo/Kayenta

Leachates

Field Number	Sample attributes or comments	Sample Elevation (m)		
06TCRK-R-129	Chinle, Pet. Forest	1,289		
06TCRK-R-49b	Chinle, Pet. Forest	1,298		
06TCRK-R-102	Chinle, Shinarump?			
06TCRK-R-105	Chinle, Shinarump	1,400		
06TCRK-R-44	Chinle, Shinarump	1,284		
06TCRK115B	Kayenta			
06TCRK102B	Navajo Ss			
06TCRK109A	Navajo Ss			
06TCRK109AA	lower Navajo Ss			
06TCRK109B	Navajo Ss			
06TCRK109C	Navajo Ss			
06TCRK-103	Navajo/Kayenta transition zone	1,436		
06TCRK114A	upper Navajo/Kayenta transition zone			
06TCRK114B	middle Navajo/Kayenta transition zone			
06TCRK114C	lower Navajo/Kayenta transition zone			
06TCEV115C	Navajo/Kayenta transition zone			
06TC-SS-S-129	Chinle, Pet. Forest	1,289		
06TCSS-S-49b	Chinle, Pet. Forest	1,298		
06TCSS-S-103	Chinle, Shinarump?	1,455		
06TCSS-S-105	Chinle, Shinarump			
06TCSS-S-44	Chinle, Shinarump	1,284		
06TCSS115A	mostly Navajo sand			
06TCSS118	mostly Navajo sand			
06TCSS102A	Navajo/Kayenta transition zone			

Solid-phase

Field Number	Sample attributes or comments	Sample Elevation (m)		
06TCRK-R-129	Chinle, Pet. Forest	1,289		
06TCRK-R-49b	Chinle, Pet. Forest	1,298		
06TCRK-R-102	Chinle, Shinarump?			
06TCRK-R-105	Chinle, Shinarump	1,400		
06TCRK-R-44	Chinle, Shinarump	1,284		
06TCRK115B	Kayenta			
06TCRK102B	Navajo Ss			
06TCRK109A	Navajo Ss			
06TCRK109AA	lower Navajo Ss			
06TCRK109B	Navajo Ss			
06TCRK109C	Navajo Ss			
06TCRK-103	Navajo/Kayenta transition zone	1,436		
06TCRK114A	upper Navajo/Kayenta transition zone			
06TCRK114B	middle Navajo/Kayenta transition zone			
06TCRK114C	lower Navajo/Kayenta transition zone			
06TCEV115C	Navajo/Kayenta transition zone			
06TC-SS-S-129	Chinle, Pet. Forest	1,289		
06TCSS-S-49b	Chinle, Pet. Forest	1,298		
06TCSS-S-103	Chinle, Shinarump?	1,455		
06TCSS-S-105	Chinle, Shinarump			
06TCSS-S-44	Chinle, Shinarump	1,284		
06TCSS115A	mostly Navajo sand			
06TCSS118	mostly Navajo sand			
06TCSS102A	Navajo/Kayenta transition zone			

Leachates

Field Number					
06TCRK-R-129					
06TCRK-R-49b					
06TCRK-R-102					
06TCRK-R-105					
06TCRK-R-44					
06TCRK115B					
06TCRK102B					
06TCRK109A					
06TCRK109AA					
06TCRK109B					
06TCRK109C					
06TCRK-103					
06TCRK114A					
06TCRK114B					
06TCRK114C					
06TCEV115C					
06TC-SS-S-129					
06TCSS-S-49b					
06TCSS-S-103					
06TCSS-S-105					
06TCSS-S-44					
06TCSS115A					
06TCSS118					
06TCSS102A					

Solid-phase

Field Number					
06TCRK-R-129					
06TCRK-R-49b					
06TCRK-R-102					
06TCRK-R-105					
06TCRK-R-44					
06TCRK115B					
06TCRK102B					
06TCRK109A					
06TCRK109AA					
06TCRK109B					
06TCRK109C					
06TCRK-103					
06TCRK114A					
06TCRK114B					
06TCRK114C					
06TCEV115C					
06TC-SS-S-129					
06TCSS-S-49b					
06TCSS-S-103					
06TCSS-S-105					
06TCSS-S-44					
06TCSS115A					
06TCSS118					
06TCSS102A					

Leachates

Field Number					
06TCRK-R-129					
06TCRK-R-49b					
06TCRK-R-102					
06TCRK-R-105					
06TCRK-R-44					
06TCRK115B					
06TCRK102B					
06TCRK109A					
06TCRK109AA					
06TCRK109B					
06TCRK109C					
06TCRK-103					
06TCRK114A					
06TCRK114B					
06TCRK114C					
06TCEV115C					
06TC-SS-S-129					
06TCSS-S-49b					
06TCSS-S-103					
06TCSS-S-105					
06TCSS-S-44					
06TCSS115A					
06TCSS118					
06TCSS102A					

Solid-phase

Field Number					
06TCRK-R-129					
06TCRK-R-49b					
06TCRK-R-102					
06TCRK-R-105					
06TCRK-R-44					
06TCRK115B					
06TCRK102B					
06TCRK109A					
06TCRK109AA					
06TCRK109B					
06TCRK109C					
06TCRK-103					
06TCRK114A					
06TCRK114B					
06TCRK114C					
06TCEV115C					
06TC-SS-S-129					
06TCSS-S-49b					
06TCSS-S-103					
06TCSS-S-105					
06TCSS-S-44					
06TCSS115A					
06TCSS118					
06TCSS102A					

Leachates

Field Number		$\delta^{13}C$ ‰	$\delta^{34}S$ ‰	$^{87}Sr/^{86}Sr$	$^{87}Sr/^{86}Sr$ 1 SD error
06TCRK-R-129		-6	-32.4	0.709302	0.000008
06TCRK-R-49b		-6.1		0.709008	0.000011
06TCRK-R-102		-5.7	-6.4	0.710388	0.000014
06TCRK-R-105		-4.8	-25.5	0.70988	0.000014
06TCRK-R-44		-10.8		0.709055	0.000011
06TCRK115B		-6.7	-12.3	0.70906	0.000018
06TCRK102B		-11.7		0.709833	0.000023
06TCRK109A		-11.9		0.709308	0.000009
06TCRK109AA		-10.1	0.0	0.7095	0.0001
06TCRK109B		-9.3		0.7092	0.000021
06TCRK109C		-12.5		0.709735	0.00001
06TCRK-103		-11.2		0.709829	0.00001
06TCRK114A		-9.2		0.709635	0.000026
06TCRK114B		-8.9	-1.1	0.709051	0.000013
06TCRK114C		-10		0.70918	0.000044
06TCEV115C		-6.1	-12.5	0.709029	0.000015
06TC-SS-S-129		-11.4		0.709247	0.000021
06TCSS-S-49b		-8.3		0.709153	0.000013
06TCSS-S-103		-8.9		0.710698	0.000013
06TCSS-S-105		-10.5	-15.8	0.7109836	0.000021
06TCSS-S-44		-10.9		0.709203	0.000009
06TCSS115A		-9.1	-13.5	0.709466	0.000017
06TCSS118		-12.6		0.709495	0.000014
06TCSS102A		-8.1	9.2	0.709225	0.000017

Solid-phase

Field Number					
06TCRK-R-129					
06TCRK-R-49b					
06TCRK-R-102					
06TCRK-R-105					
06TCRK-R-44					
06TCRK115B					
06TCRK102B					
06TCRK109A					
06TCRK109AA					
06TCRK109B					
06TCRK109C					
06TCRK-103					
06TCRK114A					
06TCRK114B					
06TCRK114C					
06TCEV115C					
06TC-SS-S-129					
06TCSS-S-49b					
06TCSS-S-103					
06TCSS-S-105					
06TCSS-S-44					
06TCSS115A					
06TCSS118					
06TCSS102A					

Leachates

Field Number	ICPMS_LEACH Ag/P ug/L	ICPMS_LEACH Al/P ug/L	ICPMS_LEACH As/P ug/L		ICPMS_LEACH Ba/P ug/L
06TCRK-R-129	28.4	3	3		36.1
06TCRK-R-49b	<0.3	364	204		114
06TCRK-R-102	<0.3	116	5		124
06TCRK-R-105	<0.3	13	3		28.2
06TCRK-R-44	0.5	761	4.2		22.2
06TCRK115B	<0.3	565	3		6.49
06TCRK102B	<0.3	125	<1		1.92
06TCRK109A	<0.3	73.9	1		6.09
06TCRK109AA	<0.3	575	<1		2.54
06TCRK109B	<0.3	326	<1		4.18
06TCRK109C	<0.3	689	<1		3.11
06TCRK-103	<0.3	389	1		6.54
06TCRK114A	<0.3	469	1		0.9
06TCRK114B	<0.3	59.9	3.2		48.3
06TCRK114C	<0.3	739	<1		1.12
06TCEV115C	<0.3	374	3		7.75
06TC-SS-S-129	<0.3	1100	6.5		9.75
06TCSS-S-49b	<0.3	418	3.8		210
06TCSS-S-103	<0.3	228	2		47
06TCSS-S-105	<0.3	358	6.8		23.4
06TCSS-S-44	<0.3	253	3.9		53.2
06TCSS115A	<0.3	215	<1		24
06TCSS118	<0.3	160	2		6.63
06TCSS102A	<0.3	1510	6.4		16

Solid-phase

Field Number	Ag ppm	Al ppm	As ppm		Ba ppm
06TCRK-R-129	23.6	88000	41.6		3250
06TCRK-R-49b	<2	47000	1450		8410
06TCRK-R-102	<2	66600	546		3540
06TCRK-R-105	<2	36800	829		548
06TCRK-R-44	<2	46400	8.7		409
06TCRK115B	<2	49300	2.9		517
06TCRK102B	<2	24800	1.2		337
06TCRK109A	<2	10600	<1		209
06TCRK109AA	<2	8560	<1		178
06TCRK109B	<2	14400	<1		257
06TCRK109C	<2	8170	<1		160
06TCRK-103	<2	15100	<1		291
06TCRK114A	<2	22200	<1		306
06TCRK114B	<2	26600	1.2		351
06TCRK114C	<2	15100	<1		242
06TCEV115C	<2	40000	8.3		482
06TC-SS-S-129	<2	65000	4		1380
06TCSS-S-49b	<2	45900	3.6		2400
06TCSS-S-103	<2	78200	5.3		649
06TCSS-S-105	<2	68800	12.2		962
06TCSS-S-44	<2	60700	6.5		938
06TCSS115A	<2	27200	2.3		556
06TCSS118	<2	17400	1.2		333
06TCSS102A	<2	49500	5.4		1780

Leachates

Field Number	ICPMS_LEACH Be/P ug/L	ICPMS_LEACH Bi/P ug/L	ICPMS_LEACH Ca/P mg/L	ICPMS_LEACH Cd/P ug/L	ICPMS_LEACH Ce/P ug/L
06TCRK-R-129	<0.05	< 0.2	348	323	0.37
06TCRK-R-49b	<0.05	< 0.2	3.97	2.16	0.89
06TCRK-R-102	<0.05	< 0.2	19.9	0.07	0.03
06TCRK-R-105	<0.05	< 0.2	600	0.14	0.08
06TCRK-R-44	<0.05	< 0.2	2.08	0.33	0.36
06TCRK115B	<0.05	< 0.2	1.24	<0.02	0.33
06TCRK102B	<0.05	< 0.2	0.5	0.08	0.12
06TCRK109A	<0.05	< 0.2	4.6	0.02	0.08
06TCRK109AA	<0.05	< 0.2	0.54	<0.02	0.21
06TCRK109B	<0.05	< 0.2	3.16	<0.02	0.18
06TCRK109C	<0.05	< 0.2	7.07	<0.02	< 0.01
06TCRK-103	<0.05	< 0.2	3.32	0.02	0.24
06TCRK114A	<0.05	< 0.2	0.41	<0.02	0.12
06TCRK114B	<0.05	< 0.2	27	<0.02	0.01
06TCRK114C	<0.05	< 0.2	2.66	<0.02	< 0.01
06TCEV115C	<0.05	< 0.2	2.13	0.06	0.24
06TC-SS-S-129	<0.05	< 0.2	0.44	0.2	0.96
06TCSS-S-49b	<0.05	< 0.2	6.67	0.03	0.22
06TCSS-S-103	<0.05	< 0.2	5.94	0.02	0.11
06TCSS-S-105	<0.05	< 0.2	9.32	0.02	0.73
06TCSS-S-44	<0.05	< 0.2	6.46	0.03	0.7
06TCSS115A	<0.05	< 0.2	19.7	0.05	0.28
06TCSS118	<0.05	< 0.2	2.41	0.04	0.06
06TCSS102A	<0.05	< 0.2	0.69	0.03	0.97

Solid-phase

Field Number	Be ppm	Bi ppm	Ca ppm	Cd ppm	Ce ppm
06TCRK-R-129	2.6	0.36	15400	23.5	77.5
06TCRK-R-49b	1.8	0.17	11600	4.2	58.4
06TCRK-R-102	1.9	0.06	4850	17.8	157
06TCRK-R-105	1.4	< 0.06	34800	0.54	76.2
06TCRK-R-44	1.3	0.13	2130	0.4	20.6
06TCRK115B	1	0.06	74900	0.12	39.6
06TCRK102B	0.54	< 0.06	1130	0.01	13.2
06TCRK109A	0.19	< 0.06	860	0.01	5.5
06TCRK109AA	0.13	< 0.06	477	<0.007	4.1
06TCRK109B	0.28	< 0.06	1040	0.01	8.3
06TCRK109C	0.18	< 0.06	52000	0.21	4.1
06TCRK-103	0.28	< 0.06	816	0.05	6.6
06TCRK114A	0.46	< 0.06	1300	0.007	11.4
06TCRK114B	0.42	< 0.06	5660	0.01	14.4
06TCRK114C	0.27	< 0.06	71900	0.17	10
06TCEV115C	0.88	0.09	103000	0.16	78.2
06TC-SS-S-129	2.3	0.37	7290	5.1	60.8
06TCSS-S-49b	1.1	0.16	14200	0.3	54.4
06TCSS-S-103	2.2	0.37	17200	0.1	77.3
06TCSS-S-105	2	0.42	8090	0.11	59.5
06TCSS-S-44	1.8	0.25	13600	0.13	82.4
06TCSS115A	0.8	0.09	8050	0.05	29.8
06TCSS118	0.36	< 0.06	1300	0.02	10.7
06TCSS102A	1.5	0.18	39500	0.1	52.6

Leachates

Field Number	ICPMS_LEACH Co/P ug/L	ICPMS_LEACH Cr/P ug/L	ICPMS_LEACH Cs/P ug/L	ICPMS_LEACH Cu/P ug/L	
06TCRK-R-129	1440	<1	0.26	13.6	
06TCRK-R-49b	4.37	<1	0.07	1.3	
06TCRK-R-102	0.66	<1	0.05	<0.5	
06TCRK-R-105	1.16	1.3	0.03	6	
06TCRK-R-44	0.58	<1	0.03	1.2	
06TCRK115B	0.03	<1	0.02	<0.5	
06TCRK102B	0.04	<1	0.03	0.88	
06TCRK109A	0.06	<1	< 0.02	1.5	
06TCRK109AA	<0.02	<1	< 0.02	<0.5	
06TCRK109B	0.02	<1	< 0.02	1.4	
06TCRK109C	<0.02	<1	< 0.02	1.5	
06TCRK-103	0.14	<1	< 0.02	3.3	
06TCRK114A	0.03	<1	< 0.02	<0.5	
06TCRK114B	<0.02	<1	0.02	0.68	
06TCRK114C	<0.02	<1	< 0.02	0.51	
06TCEV115C	0.08	<1	0.03	1.1	
06TC-SS-S-129	0.66	<1	0.17	2.6	
06TCSS-S-49b	0.09	<1	0.04	1	
06TCSS-S-103	0.04	<1	0.03	2.6	
06TCSS-S-105	0.17	<1	0.07	3.5	
06TCSS-S-44	0.07	<1	0.03	2.8	
06TCSS115A	0.03	<1	< 0.02	2.2	
06TCSS118	0.05	<1	< 0.02	0.74	
06TCSS102A	0.15	1.3	0.19	1.2	

Solid-phase

Field Number	Co ppm	Cr ppm	Cs ppm	Cu ppm	
06TCRK-R-129	202	13.2	6.6	155	
06TCRK-R-49b	196	9	3.3	25.4	
06TCRK-R-102	1330	10.9	2.4	63.2	
06TCRK-R-105	75.7	7.7	1.6	20	
06TCRK-R-44	9.8	13.9	0.67	7.2	
06TCRK115B	3.7	9.3	1.9	10	
06TCRK102B	1.5	8.6	1.2	3.1	
06TCRK109A	0.72	2.5	0.54	<2	
06TCRK109AA	0.37	2.4	0.39	<2	
06TCRK109B	0.69	5	0.76	<2	
06TCRK109C	0.45	2.1	0.42	<2	
06TCRK-103	0.76	3.8	0.71	<2	
06TCRK114A	1.2	7	1	2	
06TCRK114B	1.5	14.8	1.3	2.4	
06TCRK114C	0.78	3.9	0.57	<2	
06TCEV115C	5	14	1.5	14.9	
06TC-SS-S-129	58.7	17	9.9	60.1	
06TCSS-S-49b	16.6	18.9	3.4	13.9	
06TCSS-S-103	8.8	20	10.7	34.1	
06TCSS-S-105	18.8	18.6	9.6	30.9	
06TCSS-S-44	7.8	23.7	5.6	23	
06TCSS115A	3	11.3	1.8	7.1	
06TCSS118	1	4.8	1.3	3.9	
06TCSS102A	5.9	18.4	3.8	23.6	

Leachates

Field Number			ICPMS_LEACH Fe/P ug/L	ICPMS_LEACH Ga/P ug/L		ICPMS_LEACH Ge/P ug/L
06TCRK-R-129			<50	0.2		0.26
06TCRK-R-49b			677	0.65		0.1
06TCRK-R-102			<50	0.36		< 0.05
06TCRK-R-105			<50	0.1		0.1
06TCRK-R-44			<50	0.29		0.7
06TCRK115B			<50	0.98		< 0.05
06TCRK102B			<50	0.61		< 0.05
06TCRK109A			<50	0.29		< 0.05
06TCRK109AA			58	0.75		< 0.05
06TCRK109B			<50	0.58		< 0.05
06TCRK109C			<50	0.91		< 0.05
06TCRK-103			<50	0.93		< 0.05
06TCRK114A			<50	0.68		< 0.05
06TCRK114B			<50	0.26		< 0.05
06TCRK114C			<50	1.2		< 0.05
06TCEV115C			48	0.64		< 0.05
06TC-SS-S-129			335	1		0.2
06TCSS-S-49b			<50	1.4		< 0.05
06TCSS-S-103			<50	0.51		< 0.05
06TCSS-S-105			95	0.38		< 0.05
06TCSS-S-44			<50	0.48		< 0.05
06TCSS115A			<50	0.42		< 0.05
06TCSS118			<50	0.2		< 0.05
06TCSS102A			440	0.72		< 0.05

Solid-phase

Field Number			Fe ppm	Ga ppm		
06TCRK-R-129			22500	18.8		
06TCRK-R-49b			51400	11		
06TCRK-R-102			114000	14.2		
06TCRK-R-105			123000	8.6		
06TCRK-R-44			3350	8.3		
06TCRK115B			12700	9.3		
06TCRK102B			4240	4.2		
06TCRK109A			1330	1.8		
06TCRK109AA			1720	1.5		
06TCRK109B			2020	2.4		
06TCRK109C			1270	1.5		
06TCRK-103			1670	2.5		
06TCRK114A			3750	3.7		
06TCRK114B			5560	4.7		
06TCRK114C			2100	2.7		
06TCEV115C			27800	8.7		
06TC-SS-S-129			36700	17.1		
06TCSS-S-49b			29400	9.8		
06TCSS-S-103			32400	15.7		
06TCSS-S-105			37500	15.8		
06TCSS-S-44			28400	12.8		
06TCSS115A			8310	5.6		
06TCSS118			3180	3.1		
06TCSS102A			22900	10.2		

Leachates

Field Number		ICPMS_LEACH K/P mg/L	ICPMS_LEACH La/P ug/L	ICPMS_LEACH Li/P ug/L	
06TCRK-R-129		14.7	0.16	113	
06TCRK-R-49b		4.47	0.42	29.5	
06TCRK-R-102		4.84	0.02	30.6	
06TCRK-R-105		2.72	0.04	11.3	
06TCRK-R-44		0.85	0.16	3.2	
06TCRK115B		0.99	0.14	9.9	
06TCRK102B		1.41	0.07	4.5	
06TCRK109A		2.26	0.04	2	
06TCRK109AA		1.42	0.11	4.2	
06TCRK109B		3.26	0.06	3	
06TCRK109C		1.61	< 0.01	2.1	
06TCRK-103		9.96	0.11	7.9	
06TCRK114A		1.16	0.07	5	
06TCRK114B		4.15	0.01	48.4	
06TCRK114C		1.32	< 0.01	3.6	
06TCEV115C		1.37	0.09	25.8	
06TC-SS-S-129		1.27	0.43	5.4	
06TCSS-S-49b		3.74	0.14	6.9	
06TCSS-S-103		3.41	0.05	3.5	
06TCSS-S-105		4.37	0.37	13	
06TCSS-S-44		3.13	0.3	4.4	
06TCSS115A		2.46	0.13	4.1	
06TCSS118		0.6	0.03	1.8	
06TCSS102A		1.19	0.5	7.9	

Solid-phase

Field Number		K ppm	La ppm	Li ppm	
06TCRK-R-129		20600	34.8	35.8	
06TCRK-R-49b		17000	31.1	35.5	
06TCRK-R-102		19000	68.8	45.7	
06TCRK-R-105		9960	33	23.1	
06TCRK-R-44		2500	11.9	27	
06TCRK115B		20800	17.6	23.8	
06TCRK102B		17900	7	12.8	
06TCRK109A		9040	3.2	6.7	
06TCRK109AA		6590	2.4	5.4	
06TCRK109B		12400	4.4	7.7	
06TCRK109C		6970	2.8	6.3	
06TCRK-103		13000	3.5	7.9	
06TCRK114A		15100	6.8	11.6	
06TCRK114B		17500	7.3	14.4	
06TCRK114C		9940	7.4	9.1	
06TCEV115C		16300	28.6	18.9	
06TC-SS-S-129		26900	29.7	33.5	
06TCSS-S-49b		20400	28.4	17.1	
06TCSS-S-103		21100	39.4	44.6	
06TCSS-S-105		26000	28.1	34	
06TCSS-S-44		19900	40.7	29.6	
06TCSS115A		16500	15	12.4	
06TCSS118		14400	5.7	8.1	
06TCSS102A		24700	27.2	29.1	

Leachates

Field Number	ICPMS_LEACH Mg/P mg/L	ICPMS_LEACH Mn/P ug/L	ICPMS_LEACH Mo/P ug/L	ICPMS_LEACH Na/P mg/L	ICPMS_LEACH Nb/P ug/L
06TCRK-R-129	51.5	3880	368	277	< 0.2
06TCRK-R-49b	1.87	3.4	1040	18.8	0.2
06TCRK-R-102	5.87	1	20.3	1.65	< 0.2
06TCRK-R-105	1.64	1050	15.2	6.23	< 0.2
06TCRK-R-44	0.15	6.8	6.8	3.64	0.23
06TCRK115B	0.2	2.1	< 2	36.6	< 0.2
06TCRK102B	0.25	1.8	< 2	1.61	< 0.2
06TCRK109A	0.53	1.8	< 2	0.67	< 0.2
06TCRK109AA	0.2	1.5	< 2	9.73	< 0.2
06TCRK109B	0.33	0.6	< 2	2.14	< 0.2
06TCRK109C	0.46	0.2	< 2	<0.5	< 0.2
06TCRK-103	0.8	1.3	< 2	1.23	< 0.2
06TCRK114A	0.08	0.9	< 2	4.54	< 0.2
06TCRK114B	4.04	0.4	< 2	36.4	< 0.2
06TCRK114C	0.16	0.5	< 2	14.4	< 0.2
06TCEV115C	0.4	2.2	4.2	106	< 0.2
06TC-SS-S-129	0.12	2.7	23.2	23.7	< 0.2
06TCSS-S-49b	1.43	1.9	10.5	2.77	< 0.2
06TCSS-S-103	0.95	1.9	< 2	<0.5	< 0.2
06TCSS-S-105	0.52	1.5	2.5	64.4	< 0.2
06TCSS-S-44	0.92	2.1	< 2	1.78	< 0.2
06TCSS115A	3.01	1	< 2	11	< 0.2
06TCSS118	0.36	3.7	< 2	<0.5	< 0.2
06TCSS102A	0.37	4.4	< 2	85.3	< 0.2

Solid-phase

Field Number	Mg ppm	Mn ppm	Mo ppm	Na ppm	Nb ppm
06TCRK-R-129	8700	318	128	10800	17
06TCRK-R-49b	4480	157	913	5060	17
06TCRK-R-102	3340	775	13	1330	6.8
06TCRK-R-105	1080	1290	36.2	13800	6.1
06TCRK-R-44	494	102	3.6	320	13
06TCRK115B	9370	1070	0.1	8250	6.5
06TCRK102B	2520	102	0.1	5160	2.9
06TCRK109A	1300	24.5	0.06	336	0.71
06TCRK109AA	1230	50	0.05	534	0.69
06TCRK109B	1960	34	0.08	441	1.2
06TCRK109C	1280	118	0.05	236	0.55
06TCRK-103	1410	45.8	0.09	2140	1.4
06TCRK114A	2380	83.2	0.09	4480	2.7
06TCRK114B	3750	101	0.08	4440	3.5
06TCRK114C	2050	738	0.06	2760	1
06TCEV115C	7750	1380	2.2	9160	14
06TC-SS-S-129	4970	244	2.5	6800	7.2
06TCSS-S-49b	3740	509	3	4870	13
06TCSS-S-103	5180	366	0.79	2010	19
06TCSS-S-105	4780	250	1.9	4750	14
06TCSS-S-44	4920	362	0.93	2760	15
06TCSS115A	2970	170	0.45	3640	6
06TCSS118	1780	121	0.2	2020	2.1
06TCSS102A	11300	651	0.54	12100	12

Leachates

Field Number	ICPMS_LEACH Ni/P ug/L	ICPMS_LEACH P/P mg/L	ICPMS_LEACH Pb/P ug/L	ICPMS_LEACH Rb/P ug/L	ICPMS_LEACH Sb/P ug/L
06TCRK-R-129	183	< 0.01	1.1	18.9	3.1
06TCRK-R-49b	2.8	< 0.01	7.6	2.88	11.5
06TCRK-R-102	0.6	< 0.01	0.2	5.31	0.36
06TCRK-R-105	6	< 0.01	0.4	3.85	0.39
06TCRK-R-44	1	< 0.01	1.4	0.86	1
06TCRK115B	<0.4	< 0.01	0.2	0.62	<0.3
06TCRK102B	<0.4	0.02	0.72	0.72	<0.3
06TCRK109A	<0.4	0.02	0.3	1.23	<0.3
06TCRK109AA	<0.4	< 0.01	0.3	0.85	<0.3
06TCRK109B	<0.4	0.06	0.2	1.35	<0.3
06TCRK109C	<0.4	< 0.01	0.06	0.78	<0.3
06TCRK-103	0.5	0.3	0.71	2.76	<0.3
06TCRK114A	<0.4	0.03	0.1	0.52	<0.3
06TCRK114B	0.6	< 0.01	0.1	2.92	<0.3
06TCRK114C	<0.4	< 0.01	0.07	0.7	<0.3
06TCEV115C	<0.4	< 0.01	0.2	0.72	<0.3
06TC-SS-S-129	<0.4	0.03	0.56	1.34	<0.3
06TCSS-S-49b	<0.4	< 0.01	0.2	2.76	<0.3
06TCSS-S-103	<0.4	0.06	0.2	1.74	<0.3
06TCSS-S-105	<0.4	0.04	0.3	2.11	<0.3
06TCSS-S-44	<0.4	0.07	0.2	1.32	<0.3
06TCSS115A	0.7	< 0.01	0.1	1.06	<0.3
06TCSS118	<0.4	0.08	0.2	0.62	<0.3
06TCSS102A	<0.4	< 0.01	0.4	1.34	<0.3

Solid-phase

Field Number	Ni ppm	P ppm	Pb ppm	Rb ppm	Sb ppm
06TCRK-R-129	31	363	253	79.8	4.1
06TCRK-R-49b	87.3	216	555	55	35.8
06TCRK-R-102	276	506	335	54	7.8
06TCRK-R-105	26.1	1950	39.6	40.2	3.9
06TCRK-R-44	5.7	51.6	36.3	11.8	0.83
06TCRK115B	4.7	296	11.6	65.8	0.38
06TCRK102B	3.3	185	8.03	48.7	0.2
06TCRK109A	1.5	60	4.21	25.6	0.09
06TCRK109AA	1	13.5	4.18	18.1	0.1
06TCRK109B	1.9	67.2	5.09	33.7	0.1
06TCRK109C	2.2	50.4	2.93	19.6	0.07
06TCRK-103	1.4	100	6.48	35.4	0.2
06TCRK114A	2.9	171	8.28	42.8	0.2
06TCRK114B	2.6	115	9.15	51.5	0.22
06TCRK114C	2.4	104	5.25	29.4	0.1
06TCEV115C	5.4	538	19.8	53.7	0.73
06TC-SS-S-129	17.4	216	31	99.3	0.99
06TCSS-S-49b	7.9	203	18.6	77	0.82
06TCSS-S-103	8.5	381	24.9	102	1.1
06TCSS-S-105	10.9	236	25.5	94.4	1.5
06TCSS-S-44	9.6	279	22.5	86.7	0.71
06TCSS115A	4.8	219	10.8	58.3	0.37
06TCSS118	2.3	184	7.98	44.9	0.1
06TCSS102A	7.5	642	17	90.1	0.64

Leachates

Field Number	ICPMS_LEACH Sc/P ug/L	ICPMS_LEACH Se/P ug/L	ICPMS_LEACH SiO2/P mg/L	ICPMS_LEACH SO4/P mg/L	ICPMS_LEACH Sr/P ug/L
06TCRK-R-129	2	19.7	14.6	1120	2670
06TCRK-R-49b	1.2	< 1	10.4	11	148
06TCRK-R-102	< 0.6	1.5	5.2	32	268
06TCRK-R-105	0.9	1.1	5.5	1350	687
06TCRK-R-44	1.2	< 1	9.5	4	37.9
06TCRK115B	1.2	< 1	13.5	14	36.7
06TCRK102B	0.6	< 1	6.6	< 2	6.9
06TCRK109A	0.7	< 1	8	< 2	68.1
06TCRK109AA	1.2	< 1	12	< 2	8.84
06TCRK109B	0.9	< 1	9.7	< 2	64.3
06TCRK109C	0.9	< 1	10.5	< 2	36.3
06TCRK-103	0.9	< 1	10	< 2	29.8
06TCRK114A	0.9	< 1	10	< 2	4.33
06TCRK114B	0.8	2.8	9.4	71	1320
06TCRK114C	1.3	< 1	13.8	< 2	36.4
06TCEV115C	1.1	1	10.9	139	67
06TC-SS-S-129	1.6	< 1	14.7	2	12.6
06TCSS-S-49b	0.8	< 1	8.5	< 2	220
06TCSS-S-103	0.6	< 1	6.2	< 2	56.3
06TCSS-S-105	1.2	11.8	10.3	133	223
06TCSS-S-44	0.8	< 1	7.3	< 2	132
06TCSS115A	< 0.6	< 1	5.1	67	264
06TCSS118	< 0.6	< 1	3.2	< 2	20.3
06TCSS102A	2	85.4	17.1	64	25

Solid-phase

Field Number	Sc ppm				Sr ppm
06TCRK-R-129	11.6				397
06TCRK-R-49b	6.9				935
06TCRK-R-102	8.3				401
06TCRK-R-105	8.7				586
06TCRK-R-44	5.7				60.9
06TCRK115B	5.1				282
06TCRK102B	2.1				52.1
06TCRK109A	0.6				31.8
06TCRK109AA	0.6				25
06TCRK109B	1.1				43.4
06TCRK109C	0.5				41.4
06TCRK-103	1				38.8
06TCRK114A	1.6				52.8
06TCRK114B	2.2				146
06TCRK114C	0.9				80.8
06TCEV115C	9.2				227
06TC-SS-S-129	6.7				314
06TCSS-S-49b	5.2				260
06TCSS-S-103	9.3				250
06TCSS-S-105	7.4				275
06TCSS-S-44	7.6				187
06TCSS115A	3.2				80.2
06TCSS118	1.3				43
06TCSS102A	6.9				268

Leachates

Field Number	ICPMS_LEACH Th/P ug/L	ICPMS_LEACH Ti/P ug/L	ICPMS_LEACH Tl/P ug/L	ICPMS_LEACH U/P ug/L	ICPMS_H2O U (NAU) ug/L
06TCRK-R-129	< 0.2	22.9	4.5	138	103
06TCRK-R-49b	0.28	36.8	0.78	49.1	41.9
06TCRK-R-102	< 0.2	1.2	3.4	17.7	13.9
06TCRK-R-105	< 0.2	32.8	1.3	237	215
06TCRK-R-44	0.41	45.5	0.2	2.48	2.27
06TCRK115B	< 0.2	8.4	<0.1	1.26	1.4
06TCRK102B	< 0.2	0.6	<0.1	< 0.1	0.037
06TCRK109A	< 0.2	0.7	<0.1	< 0.1	0.031
06TCRK109AA	< 0.2	3.7	<0.1	< 0.1	0.112
06TCRK109B	< 0.2	3.2	<0.1	0.1	0.103
06TCRK109C	< 0.2	< 0.5	<0.1	< 0.1	0.013
06TCRK-103	< 0.2	2.6	<0.1	< 0.1	0.055
06TCRK114A	< 0.2	3.5	<0.1	0.12	0.088
06TCRK114B	< 0.2	2	<0.1	0.27	0.202
06TCRK114C	< 0.2	< 0.5	<0.1	0.14	0.104
06TCEV115C	< 0.2	7.8	<0.1	2.24	2.71
06TC-SS-S-129	0.2	35.7	<0.1	18.8	21.2
06TCSS-S-49b	< 0.2	9.8	<0.1	6.77	7.51
06TCSS-S-103	< 0.2	4.3	<0.1	0.31	0.482
06TCSS-S-105	< 0.2	32.2	<0.1	3.24	4.25
06TCSS-S-44	< 0.2	10.6	<0.1	0.52	0.726
06TCSS115A	< 0.2	3.9	<0.1	0.41	0.942
06TCSS118	< 0.2	1.6	<0.1	< 0.1	0.086
06TCSS102A	0.2	30.4	<0.1	1.77	1.8

Solid-phase

Field Number	Th ppm	Ti ppm	Tl ppm	U ppm	
06TCRK-R-129	12.6	3430	5.21	367	
06TCRK-R-49b	11	1850	70	291	
06TCRK-R-102	10.5	2120	45.4	350	
06TCRK-R-105	4.49	1590	59.6	86.9	
06TCRK-R-44	14.8	1770	0.59	19.7	
06TCRK115B	5.31	1740	0.38	1.87	
06TCRK102B	2.05	942	0.32	0.7	
06TCRK109A	0.95	205	0.18	0.34	
06TCRK109AA	0.82	146	0.13	0.27	
06TCRK109B	1.33	372	0.22	0.39	
06TCRK109C	0.6	190	0.13	0.19	
06TCRK-103	0.92	276	0.24	0.31	
06TCRK114A	1.81	878	0.27	0.57	
06TCRK114B	2.29	824	0.34	0.79	
06TCRK114C	1.08	301	0.2	0.5	
06TCEV115C	12.7	3240	0.36	2.06	
06TC-SS-S-129	11.7	3370	1.16	12	
06TCSS-S-49b	10.2	3480	0.67	8.96	
06TCSS-S-103	14.5	3410	0.68	3.34	
06TCSS-S-105	10.7	3200	1.38	11.1	
06TCSS-S-44	13	3000	0.5	2.77	
06TCSS115A	7.19	1540	0.36	1.17	
06TCSS118	1.9	827	0.25	0.47	
06TCSS102A	10.2	2900	0.52	2.06	

Leachates

Field Number	234U/238U Activity Ratio	234U/238U Activity Ratio (+ 1 SD)	ICPMS_LEACH V/P ug/L		ICPMS_LEACH Y/P ug/L	
06TCRK-R-129	1.078	0.007	2.9		3.46	
06TCRK-R-49b	1.089	0.002	3.6		2.17	
06TCRK-R-102	0.999	0.004	<0.5		0.06	
06TCRK-R-105	1.061	0.003	0.6		0.2	
06TCRK-R-44	1.17	0.03	5		0.25	
06TCRK115B	1.002	0.006	77.2		0.1	
06TCRK102B	1.07	0.1	2.2			
06TCRK109A	1.27	0.09	2.5		0.04	
06TCRK109AA	1.8	0.17	4.7		0.08	
06TCRK109B	1.96	0.17	4.8		0.06	
06TCRK109C	1.04	0.14	3.3		< 0.01	
06TCRK-103	0.99	0.1	7.6		0.11	
06TCRK114A	1.05	0.04	11.5		0.07	
06TCRK114B	1.63	0.14	8.8		0.01	
06TCRK114C	1.37	0.05	11.4		< 0.01	
06TCEV115C	1.23	0.03	8.5		0.07	
06TC-SS-S-129	1.064	0.003	28.5		0.41	
06TCSS-S-49b	1.12	0.02	19.9		0.1	
06TCSS-S-103	1.01	0.06	10.7		0.04	
06TCSS-S-105	1.24	0.02	9.7		0.24	
06TCSS-S-44	1.10	0.03	15.2		0.2	
06TCSS115A	1.44	0.05	3.1		0.06	
06TCSS118	1.78	0.21	12.9		0.04	
06TCSS102A	1.51	0.02	52.9		0.34	

Solid-phase

Field Number			V ppm		Y ppm	
06TCRK-R-129			428		41.8	
06TCRK-R-49b			57.6		99.9	
06TCRK-R-102			115		139	
06TCRK-R-105			67.1		43.7	
06TCRK-R-44			31.8		12.7	
06TCRK115B			76.5		16.3	
06TCRK102B			8.3		6.4	
06TCRK109A			3		2.4	
06TCRK109AA			2.4		2	
06TCRK109B			4.9		3.3	
06TCRK109C			2.3		3.5	
06TCRK-103			4.8		2.7	
06TCRK114A			8.3		5.5	
06TCRK114B			9.6		5.2	
06TCRK114C			8		4.7	
06TCEV115C			58		27.4	
06TC-SS-S-129			91.1		21.3	
06TCSS-S-49b			95.6		17.4	
06TCSS-S-103			75.7		23.4	
06TCSS-S-105			82.7		19.7	
06TCSS-S-44			68.2		22.9	
06TCSS115A			23.6		10.1	
06TCSS118			8.6		4.8	
06TCSS102A			55.6		22.1	

Leachates

Field Number	ICPMS_LEACH Zn/P ug/L	ICPMS_LEACH Zr/P ug/L					
06TCRK-R-129	384	< 0.2					
06TCRK-R-49b	6.4	2.3					
06TCRK-R-102	2.7	< 0.2					
06TCRK-R-105	7.5	< 0.2					
06TCRK-R-44	2.8	2.1					
06TCRK115B	<0.5	0.4					
06TCRK102B							
06TCRK109A	0.9	< 0.2					
06TCRK109AA	<0.5	0.4					
06TCRK109B	<0.5	< 0.2					
06TCRK109C	<0.5	< 0.2					
06TCRK-103	1.3	< 0.2					
06TCRK114A	<0.5	0.2					
06TCRK114B	0.7	< 0.2					
06TCRK114C	<0.5	< 0.2					
06TCEV115C	0.8	< 0.2					
06TC-SS-S-129	1.2	1.2					
06TCSS-S-49b	<0.5	0.3					
06TCSS-S-103	<0.5	< 0.2					
06TCSS-S-105	1	0.74					
06TCSS-S-44	<0.5	0.2					
06TCSS115A	0.6	< 0.2					
06TCSS118	0.8	< 0.2					
06TCSS102A	1.6	1.1					

Solid-phase

Field Number	Zn ppm						
06TCRK-R-129	111						
06TCRK-R-49b	212						
06TCRK-R-102	3830						
06TCRK-R-105	240						
06TCRK-R-44	30.6						
06TCRK115B	28						
06TCRK102B	12.1						
06TCRK109A	5						
06TCRK109AA	3.9						
06TCRK109B	6.6						
06TCRK109C	4						
06TCRK-103	6.8						
06TCRK114A	10.8						
06TCRK114B	12.7						
06TCRK114C	5						
06TCEV115C	32.7						
06TC-SS-S-129	54.6						
06TCSS-S-49b	51						
06TCSS-S-103	53.1						
06TCSS-S-105	54.4						
06TCSS-S-44	41.6						
06TCSS115A	23.6						
06TCSS118	11.8						
06TCSS102A	45.6						

Comments:
pMC = percent modern carbon
1 SD = one standard deviation for error
sample elevations are approximate based on topographis maps
< means analysis is below instrument detection limit
$\delta^{13}C$ ‰ for 06TCSP116 is an average of two analyses
$\delta^{13}C$ ‰ analytical precision (1 SD) is 0.30
$\delta^{34}S$ ‰ analytical precision (1 SD) is 0.16
Analysis by ICP-MS is indicated as ICPMS_H2O
Analysis by ICP-AES is indicated as ICP_H2O