GEOLOGICAL SURVEY OF CANADA

OPEN FILE 2668

Till geochemistry and ice flow indicators, Hepburn Lake area, District of Mackenzie, Northwest Territories (NTS 76 M)

R. Thomas, V. Rampton, L. Dredge

1993

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OPEN FILE XXXX

Till geochemistry and ice flow indicators, Hepburn Lake area, District of Mackenzie, Northwest Territories (NTS 76 M)

R. Thomas[1], V. Rampton[1], and L. Dredge[2]

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1993

This open file report releases data sets relating to till geochemistry and ice flow indicators in the Heburn Lake area (NTS 76 M). R. J. Thomas of Terrain Analysis and Mapping Services, completed the field work in the summer of 1992 under contract to the Terrain Sciences Division of the Geological Survey. The map will be released separately. The paper copy of this open file contains the following data :

1. Hepburn.txt (this file)
2. Sample numbers and locations
3. A summary of known showings
4. Till geochemistry
5. Striations

A disc is also available containing two additional files:

6. Lithology of pebbles in the till
7. Site descriptions

Data sets are formatted in MS Excel

The mapping consisted of detailed interpretation of 1: 60 000 scale air photos, together with field verification of units and sampling. Ground work was accomplished by foot traverses and helicopter-supported spot checking. Till samples were collected from depths of about 0.5m from hand dug pits. This depth corresponds to a position well below the soil layer, but above the summer frost table. In the lab, the samples were centrifuged and decanted, and the <2 um fractions were analyzed for various elements. Most elements were analysed using atomic absorption techniques after aqua regia digestion, but arsenic values were derived using colourimetric standards, and uranium values were determined by fluorimetric methods. The < 63um fraction was used for gold and niobium analyses. Gold was determined by fire assay neutron activation, and niobium values were calculated by X-ray fluorescence. All samples were processed at Chemex Labs Ltd. of Mississauga.

L. Dredge
April 10, 1993.

SAMPLE LOCATIONS FOR NTS 76 M												
	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING (m)	NORTHING (m)	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
92DU-												
0301	12W	497330	7506620	205								
0302	12W	497220	7506910	213							X	x
0303	12W	497340	7507920	240								
0001	12W	497420	7508780	260	X	X						
0304	12W	497460	7505330	210							X	
0304A	12W	497390	7505460	200								
0305	12W	497220	7505000	205							X	X
0305A	12W	497320	7505080	195								
0306	12W	498520	7504190	200								X
0307	12W	498860	7504470	202								
0308	12W	497860	7505720	209								
0305B	12W	497490	7504900	200								
0305C	12W	497800	7504920	200								
0305D	12W	498240	7504420	200								
0305E	12W	498800	7504690	203								
0305F	12W	498510	7505320	210								
0309	12W	497560	7513580	115								
0002	12W	503560	7515100	135	X	X						
0003	12W	502720	7509490	185	X	X					X	
0004	12W	502430	7504040	220	X	X						
0005	12W	503350	7497320	230	X	X					X	X
0006	12W	459320	7434400	470	X	X						
0007	12W	458340	7441440	485	X	X						
0008	12W	458210	7448320	505	X	X						
0009	12W	459030	7454080	400	X	X					X	
0010	12W	458520	7458940	435	X	X						
0011	12W	460480	7465890	365	X	X					X	
0012	12W	459940	7471830	420	X	X					X	
0013	12W	460180	7478350	380	X	X						
0014	12W	459980	7484860	330	X	X						
0015	12W	461540	7490080	265	X	X						
0016	12W	461720	7497290	200	X	X					X	
0017	12W	460940	7505800	115	X	X				1	X	
0018	12W	458280	7510500	185	X	X						
0019	12W	465740	7434480	480	X	X					X	
0020	12W	466950	7441210	475	X	X						
0021	12W	466460	7448170	495	X	X						
0022	12W	466310	7454600	455	X	X						
0023	12W	465150	7459500	430	X	X					X	
0024	12W	465840	7466000	380	X	X						
0025	12W	465710	7472130	395	X	X						
0026	12W	466600	7478500	360	X	X						
0027	12W	466180	7485010	305	X	X						
0310	12W	464480	7487140	270			X					
0028	12W	466150	7490280	300	X	X						
0029	12W	466980	7497510	290	X	X						
0030	12W	466560	7503640	250	X	X						
0031	12W	467390	7509560	105	X	X				1		
0032	12W	458210	7514720	25	X	X						
0033	12W	490090	7519510	135	X	X				1		
0034	12W	491240	7516630	205	X	X						
0035	12W	490580	7508020	225	X	X						
0036	12W	471750	7433930	485	X	X						X

	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING	NORTHING	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
0037	12W	472640	7441460	465	X	X						
0038	12W	472180	7448450	470	X	X						
0039	12W	472160	7454930	365	X	X						
0040	12W	471830	7458980	390	X	X						X
0041	12W	471660	7465720	360	X	X						
0042	12W	471950	7472060	390	X	X						
0043	12W	472030	7478780	340	X	X						
0044	12W	471070	7485280	325	X	X						X
0045	12W	471450	7490530	300	X	X						
0046	12W	472000	7497880	280	X	X						
0047	12W	470980	7503730	300	X	X						
0311	12W	471930	7510830	120								
0312	12W	472270	7515150	90								
0048	12W	466360	7515530	40	X	X						
0049	12W	484820	7515750	85	X	X						
0050	12W	490380	7503960	310	X	X						
0051	12W	490790	7497950	250	X	X						
0052	12W	483450	7498300	290	X	X						
0053	12W	484170	7504070	280	X	X						
0054	12W	484630	7508260	190	X	X						
0313	12W	472270	7515150	25								
0055	12W	477750	7509230	130	X	X						
0056	12W	477110	7504120	230	X	X						
0057	12W	477350	7498010	275	X	X						
0058	12W	477640	7491100	285	X	X						
0059	12W	483830	7490620	290	X	X					X	
0060	12W	490770	7491500	275	X	X						
0061	12W	496740	7490920	265	X	X						
0062	12W	496800	7497470	230	X	X						
0063	12W	496880	7503610	215	X	X						
0064	12W	477780	7485860	290	X	X						
0065	12W	478180	7480470	300	X	X						
0066	12W	478820	7473140	360	X	X						
0067	12W	478330	7466790	400	X	X						
0068	12W	478400	7459710	325	X	X						
0069	12W	479060	7454500	390	X	X						
0070	12W	478730	7447960	450	X	X						
0071	12W	478670	7441580	445	X	X						
0072	12W	478810	7435180	420	X	X						
0073	12W	485370	7434920	395	X	X						
0314	12W	484610	7440440	435								
0074	12W	483030	7441370	445	X	X						
0075	12W	484290	7448830	410	X	X						
0076	12W	484940	7453990	420	X	X						
0077	12W	485770	7460130	355	X	X						
0078	12W	483920	7485240	300	X	X						
0079	12W	491180	7485240	310	X	X						X
0080	12W	496490	7484960	300	X	X						
0081	12W	503480	7484920	295	X	X						
0082	12W	485290	7467060	370	X	X						
0083	12W	491060	7466500	320	X	X						
0084	12W	491030	7458780	360	X	X					X	
0315	12W	490960	7457360	310			X	X				
0085	12W	490320	7453840	395	X	X						
0086	12W	490440	7448260	448	X	X						
0087	12W	490120	7441620	475	X	X						

	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING	NORTHING	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
0088	12W	490970	7434640	445	X	X						
0089	12W	497730	7433940	455	X	X						
0090	12W	498030	7441320	430	X	X						
0091	12W	497780	7448870	390	X	X						
0092	12W	497450	7453930	310	X	X						
0093	12W	497480	7459860	365	X	X						
0094	12W	503580	7490670	255	X	X						
0095	12W	509030	7491470	160	X	X						
0096	12W	509560	7497610	230	X	X						
0097	12W	509230	7503630	200	X	X						
0098	12W	509400	7508280	235	X	X						
0099	12W	509820	7515730	155	X	X						
0100	12W	509790	7522300	50	X	X						
0101	12W	497090	7466050	385	X	X						
0102	12W	505030	7465590	350	X	X						
0103	12W	505080	7459030	355	X	X						
0104	12W	505460	7453680	335	X	X						X
0105	12W	505120	7448490	300	X	X						X
0106	12W	504910	7440740	390	X	X					X	
0107	12W	504530	7433820	425	X	X						
0108	12W	509900	7434140	430	X	X						
0109	12W	510720	7440980	400	X	X						
0110	12W	511190	7447910	310	X	X						
0111	12W	511980	7453380	325	X	X						
0112	12W	512710	7458520	320	X	X						
0113	12W	511220	7464970	280	X	X						
0114	12W	511100	7472080	340	X	X						
0115	12W	510500	7477930	340	X	X						
0116	12W	510280	7484690	230	X	X						
0316	12W	504050	7502470	210			X	X				
0117	12W	517300	7472490	350	X	X						
0118	12W	517800	7465920	375	X	X						
0119	12W	519670	7459210	380	X	X						
0120	12W	519520	7454100	320	X	X						
0121	12W	518210	7447910	355	X	X						
0122	12W	517860	7441180	410	X	X						
0123	12W	517310	7433820	445	X	X						
0124	12W	523920	7433910	420	X	X					X	
0125	12W	523380	7439670	380	X	X						
0126	12W	523940	7448020	360	X	X						
0317	12W	522500	7452420	270			X	X				
0127	12W	524690	7453460	340	X	X						
0128	12W	525120	7458390	350	X	X						
0129	12W	524260	7465520	355	X	X						
0130	12W	523510	7471390	352	X	X						
0131	12W	522430	7478150	325	X	X						
0318	12W	522840	7478020	310								
0132	12W	516700	7477890	330	X	X						
0133	12W	515620	7526590	90	X	X						
0134	12W	522810	7532230	70	X	X						
0319	12W	522080	7526660	155								
0135	12W	522980	7521330	175	X	X						
0136	12W	515360	7522570	140	X	X						
0137	12W	515890	7515410	225	X	X						
0138	12W	521490	7516060	70	X	X						
0139	12W	521260	7509340	220	X	X						

	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING	NORTHING	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
0140	12W	515130	7508560	150	X	X						
0141	12W	514820	7502920	205	X	X						
0142	12W	521070	7503070	230	X	X						
0143	12W	529670	7477710	320	X	X						
0144	12W	530470	7471720	345	X	X						
0145	12W	530580	7465290	345	X	X						
0146	12W	531730	7459430	370	X	X						
0147	12W	537460	7458720	350	X	X						
0148	12W	536660	7465320	355	X	X						
0149	12W	535860	7471630	340	X	X						
0150	12W	516450	7484480	315	X	X						
0151	12W	516120	7490310	275	X	X						
0152	12W	530680	7447720	350	X	X						
0153	12W	529520	7440480	415	X	X						X
0154	12W	529950	7433680	435	X	X						
0155	12W	536390	7433240	425	X	X						
0156	12W	536360	7440470	408	X	X						
0157	12W	536190	7447470	340	X	X						
0158	12W	537040	7453510	295	X	X						
0159	12W	531620	7453860	340	X	X						
0160	12W	535440	7478150	310	X	X						
0161	12W	535780	7484220	285	X	X						
0162	12W	530800	7484520	310	X	X						
0163	12W	523180	7484830	300	X	X						
0164	12W	522020	7491070	270	X	X						
0165	12W	516110	7490980	275	X	X						
0166	12W	528580	7490940	270	X	X						
0167	12W	534980	7490310	280	X	X						
0168	12W	534820	7537380	70	X	X						
0169	12W	534880	7532530	150	X	X						
0170	12W	534820	7526070	125	X	X						
0171	12W	535450	7520040	170	X	X						
0172	12W	535670	7513730	155	X	X						
0173	12W	534800	7508330	190	X	X						
0174	12W	535120	7502980	210	X	X						
0175	12W	535480	7497080	205	X	X						
0176	12W	528280	7497180	250	X	X						
0177	12W	528280	7532540	70	X	X						
0178	12W	527720	7526480	210	X	X						
0179	12W	530570	7519090	180	X	X						
0180	12W	528880	7514880	160	X	X						
0181	12W	527690	7508830	175	X	X						
0182	12W	528460	7504210	200	X	X						
0183	12W	521790	7497190	270	X	X						
0184	12W	515960	7496720	250	X	X						
0185	12W	484220	7478720	310	X	X					X	
0186	12W	484540	7472530	390	X	X						
0187	12W	490810	7471630	360	X	X						
0188	12W	491480	7478530	350	X	X						
0189	12W	496580	7478320	305	X	X						
0190	12W	496700	7472010	360	X	X						
0191	12W	503770	7472100	350	X	X						
0192	12W	504030	7478100	345	X	X						
0400	12W	451320	7501120	50								
0401	12W	461650	7501200	50								
0402	12W	461780	7501180	50								

	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING	NORTHING	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
0403	12W	461850	7500500	35								
0404	12W	462120	7501250	40						1		
0405	12W	462510	7501400	25								
0406	12W	463120	7502390	45						1		
0407	12W	463070	7502720	40								
0408	12W	462430	7503010	35								
0409	12W	461810	7503650	20								
0410	12W	461670	7503650	20						1		
0411	12W	526480	7474650	342	X	X						
0412	12W	526190	7474630	335								
0413	12W	526360	7474280	340								
0414	12W	526540	7474090	340								
0415	12W	526310	7473890	340	X	X						
0416	12W	526400	7473750	342						1		
0417	12W	526070	7473580	342	X	X						
0418	12W	525390	7446980	375	X	X						
0419	12W	525150	7446390	365	X	X						
0420	12W	524660	7446410	350								
0421	12W	524520	7446170	350								
0422	12W	524410	7445850	355								
0423	12W	524500	7445600	350								
0424	12W	524190	7445200	372	X	X						
0425	12W	524800	7444700	365								
0426	12W	524500	7443620	412	X	X						
0430	12W	514800	7528620	105						1		
0431	12W	515380	7528250	10								
0432	12W	515510	7528050	10								
0433	12W	515850	7527750	12								
0434	12W	516600	7527650	10								
0435	12W	516600	7527200	5								
0436	12W	516720	7527430	15								
0437	12W	515730	7509820	95						1		
0438	12W	515480	7510230	98								
0439	12W	515170	7510880	112								
0440	12W	515290	7511930	98								
0441	12W	515150	7512100	98								
0442	12W	513630	7494320	170								
0443	12W	513720	7494220	165								
0444	12W	513290	7494480	172								
0445	12W	514090	7495190	180								
0446	12W	513720	7495600	182								
0447	12W	514050	7495900	172								
0448	12W	514410	7495720	155								
0449	12W	514770	7496100	145								
0450	12W	514950	7496850	160								
0451	12W	514900	7496450	160								
0452	12W	512130	7513710	140								
0453	12W	513090	7516380	72								
0454	12W	521210	7514720	55								
0455	12W	515810	7508830	98								
0456	12W	515910	7508780	95								
0457	12W	508570	7495200	185								
0458	12W	536820	7451060	285								
0459	12W	536570	7451100	277								
0460	12W	542920	7437100	332								
0461	12W	509390	7451810	288								

	LOCATION (UTM)			ELEVATION	SAMPLE MATERIAL							
SAMPLE #	ZONE	EASTING	NORTHING	(m)	Till	Pebbles	Gl Fluv	Sand	Clay	Organic	Rock	Boulder
0462	12W	502890	7451070	278								
0463	12W	491170	7456800	312								
0464	12W	487540	7458400	315								
0465	12W	487470	7458600	330								
0466	12W	478438	7459930	318								
0458B	12W	522810	7521720	138								
0459B	12W	522710	7521690	135								
0460B	12W	521480	7522880	80								
0461B	12W	521900	7522900	80								
0462B	12W	522800	7522250	90								
0463B	12W	523500	7522500	120								
0467	12W	522980	7522060	112								
0468	12W	522790	7522130	112								
0469	12W	520830	7523150	70								
0470	12W	520320	7523590	50								
0471	12W	520000	7523710	45						1		
0472	12W	520050	7523880	32								
0473	12W	519400	7524160	18								
0474	12W	518920	7523980	40						3		
0475	12W	518190	7525000	5								
0476	12W	518580	7524390	20								
0477	12W	521500	7520930	130								
0478	12W	518390	7522590	48						1		
0479	12W	519220	7521820	100								
0480	12W	519750	7521550	48						1		
0481	12W	519600	7521310	60								
0482	12W	519690	7520980	50								
0483	12W	520400	7520700	75								
0484	12W	520150	7520550	65								
0321	12W	523530	7521860	93								
					199	199	4	3	0	15	17	11

HEPBURN ISLAND MINERAL SHOWING FILE					
EASTING	NORTHING	METAL	COMMENTS	REFERENCE	LEGEND
(m)	(m)				
484900	7512600	Au	Orofino	Easton, 1982*	
484500	7512100	Au	Orofino	Easton, 1982	As = arsenopyrite
506400	7521000	Fe	Technicolour Point	Easton, 1982	Au = gold
516850	7519800	Il		Easton, 1982	Cu = chalcopyrite
500500	7496350	Cu		Easton, 1982	Fe = iron formation
507000	7473300	Cu, Pb, Zn	High Lake	Easton, 1982	Il = ilmenite
496300	7467700	As		Easton, 1982	Pb = galena
502500	7448100	Au		Easton, 1982	Zn = sphalerite
502000	7446900	Pb		Easton, 1982	
504700	7447500	Pb, Zn		Easton, 1982	
503300	7445500	Pb, Zn		Easton, 1982	
503900	7445600	Pb, Zn		Easton, 1982	
				Assessment compilation, 1973	
503900	7446100	Au, Ag ?	A, B	Ass comp -1	
505500	7447900	Au, Ag ?		Ass comp -1	
506600	7448500	Au, Ag ?		Ass comp -1	
494000	7446900	Cu	Mollie Mac Mines	Ass comp -2	
510400	7441900	Cu	Kennarctic Showing #14 &	Ass comp -3	
504600	7448100	Pb	Kennarctic Showing # 11	Ass comp -4	
503900	7456800	Cu	Kennarctic Showing # 8	Ass comp -5	
499100	7551800	Cu, Zn	Kennarctic Showing # 9	Ass comp -6	
496800	7550900	Cu, Zn	Kennarctic Showing # 12	Ass comp -7	
496100	7444400	Cu, Zn		Ass comp -7	
497450	7444500	Cu, Zn		Ass comp -7	
499100	7552900	Cu, Zn	C Gp	Ass comp -8	
494600	7446100	Cu	M Gp	Ass comp -9	
479700	7445600	Fe	James River	Ass comp -10	
490900	7486300	Cu	Kennarctic Showing # 5	Ass comp -11	
496300	7473300	Cu	Kennarctic Showing # 6	Ass comp -12	
504700	7464100	Cu	L, J	Ass comp -13	
			HIGH LAKE Gp	Ass comp -14	
511500	7479700	Cu, Zn	Kennarctic Ex. Ltd.	Ass comp -15	
507000	7481800	Cu	CHILL Gp	Ass comp -16	
500300	7482900	Cu	CHILL Gp	Ass comp -17	
501700	7490200	Cu	Kennarctic Showing # 4	Ass comp -18	
498400	7496100	Cu	Kennarctic Showing # 2	Ass comp -19	
497600	7500500	Cu	Kennarctic Showing # 3	Ass comp -20	
496700	7503500	Cu, Au	Kennarctic Showing # 1	Ass comp -21	
483200	7496900	Au	SIDEWALK Gp	Ass comp -22	
484600	7508900	Au	SIDEWALK Gp	Ass comp -22	
483400	7516000	Au	SIDEWALK Gp	Ass comp -22	
485100	7507500	Au	H	Ass comp -23	
486000	7509900	Au	H	Ass comp -24	
483200	7509100	Au	SIDEWALK Gp	Ass comp -25	
483900	7509900	Au	SIDEWALK Gp	Ass comp -26	
484400	7511600	Au	SIDEWALK Gp	Ass comp -27	
484900	7513400	Au	G	Ass comp -28	

*Easton, R.M. et al., 1982. Geology of the Typhoon Point map area. INAC Geology Div, EGS 1982-6.

TILL GEOCHEMISTRY FOR NTS 76 M																									
sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
Detection	0.2	0.01	2	10	0.5	2	0.01	0.5	1	1	1	0.01	10	1	0	10	0.01	5	1	0.01	1	10	2	2	1
92-DU-0001	0.2	4.63	52	110	0.3	1	0.26	0.3	50	118	168	6.82	5	0.5	0.3	40	1.99	1815	4	0.59	65	4170	120	4	12
92-DU-0002	0.1	4.46	20	110	0.3	1	0.13	0.5	50	116	51	10.2	5	0.5	0.3	20	1.35	2240	3	0.73	28	5340	60	1	10
92-DU-0003	0.1	4.59	32	70	0.3	1	0.12	0.3	13	75	71	6.26	5	0.5	0.2	30	1.13	395	3	0.46	28	3740	32	1	7
92-DU-0004	0.1	3.88	70	70	0.3	1	0.19	0.3	24	75	185	7.11	5	0.5	0.2	30	1.42	570	3	0.39	35	2290	34	1	7
92-DU-0005	0.2	4.85	34	90	0.3	1	0.23	0.5	35	89	155	6.79	5	0.5	0.4	60	2.86	940	1	0.63	55	4980	26	1	11
92-DU-0006	0.1	3.97	1	120	0.3	1	0.41	0.3	20	41	97	6.07	5	0.5	0.6	80	2	830	1	0.44	31	2260	24	1	11
92-DU-0007	0.2	3.95	1	140	0.3	1	0.39	0.3	18	40	113	5.88	5	0.5	0.6	50	1.79	635	1	0.29	30	1100	18	1	10
92-DU-0008	0.1	3.63	1	100	0.3	1	0.32	0.3	20	40	105	5.68	5	0.5	0.4	30	1.35	710	1	0.34	30	2150	12	1	7
92-DU-0009	0.2	3.65	2	100	0.3	1	0.46	0.3	24	44	95	5.75	5	0.5	0.5	60	1.55	825	1	0.49	30	2840	16	1	10
92-DU-0010	0.2	3.69	1	100	0.3	1	0.51	0.3	16	65	102	5.11	5	0.5	0.6	70	1.8	660	13	0.44	32	2620	14	1	10
92-DU-0011	0.1	4.71	1	80	0.3	1	0.25	0.3	30	210	109	5.74	5	0.5	0.3	70	2.37	725	1	0.53	95	3500	20	1	12
92-DU-0012	0.2	3.59	1	70	0.3	1	0.44	0.3	17	64	98	5.49	5	0.5	0.4	70	1.63	620	1	0.6	36	3560	24	1	13
92-DU-0013	0.2	5.15	4	70	0.3	1	0.2	0.3	12	80	89	5.35	5	0.5	0.2	70	1.13	395	1	0.75	27	6000	24	1	9
92-DU-0014	0.2	4.55	6	130	0.3	1	0.23	0.3	21	90	120	5.49	5	0.5	0.3	60	1.52	475	2	0.76	38	5300	20	1	13
92-DU-0015	0.1	4.65	8	70	0.3	1	0.19	0.3	56	76	376	8.74	5	0.5	0.2	20	1.14	870	3	0.96	34	6820	24	1	13
92-DU-0016	0.1	4.9	26	240	0.3	1	0.18	0.3	31	91	39	5.96	5	0.5	0.5	20	1.58	975	2	0.57	48	3430	24	1	9
92-DU-0017	0.1	3.94	8	1160	0.3	1	2.48	0.3	21	78	124	4.88	5	0.5	1	30	4.58	535	1	0.69	49	2920	16	2	11
92-DU-0018	0.2	4.19	4	920	0.3	1	0.63	0.3	24	82	106	5.83	5	0.5	0.8	40	2.55	820	1	0.5	51	2430	22	1	13
92-DU-0019	0.1	5.04	6	170	0.3	1	0.35	0.3	24	52	193	7.51	5	0.5	0.8	50	1.85	765	2	0.64	35	3260	16	1	14
92-DU-0020	0.2	4.62	1	120	0.3	1	0.24	0.3	15	55	129	5.97	5	0.5	0.5	70	1.3	325	1	0.74	27	5820	12	2	11
92-DU-0021	0.2	4.49	1	210	0.3	1	0.45	0.3	22	50	86	6.16	5	0.5	1.1	80	2.19	1130	1	0.42	34	2130	18	1	11
92-DU-0022	0.2	4.06	4	90	0.3	1	0.21	0.3	16	41	101	6.52	5	0.5	0.4	30	1.2	695	66	0.64	23	4620	32	1	6
92-DU-0023	0.1	3.43	1	70	0.3	1	0.29	0.3	24	36	90	4.33	5	0.5	0.3	50	1.31	615	1	0.31	29	2010	24	1	7
92-DU-0024	0.1	3.61	2	80	0.3	1	0.26	0.3	14	59	59	4.98	5	0.5	0.3	40	1.17	460	1	0.42	28	2450	26	1	7
92-DU-0025	0.1	4.4	8	160	0.3	1	0.26	0.3	21	84	62	6.2	5	0.5	0.7	50	1.57	645	1	0.46	46	2820	26	1	10
92-DU-0026	0.2	4.39	26	180	0.3	1	0.38	0.3	21	126	104	5.82	5	0.5	0.9	50	2	595	1	0.41	66	1820	20	1	14
92-DU-0027	0.1	3.71	8	50	0.3	1	0.11	0.3	7	55	29	5.44	5	0.5	0.2	30	0.69	370	1	1.07	16	7720	26	1	4
92-DU-0028	0.2	4.41	30	50	0.3	1	0.14	0.3	11	82	132	5.25	5	0.5	0.2	40	0.86	300	1	0.76	24	5590	10	1	8
92-DU-0029	0.2	5.57	24	140	0.3	1	0.2	0.3	33	113	117	6.97	5	0.5	0.5	40	2.57	725	4	0.38	64	2590	22	1	14
92-DU-0030	0.1	4.27	80	110	0.3	1	0.15	0.3	33	79	59	8.61	5	0.5	0.3	20	1.22	930	5	0.65	35	5240	22	1	8
92-DU-0031	0.6	4.9	4	300	0.3	1	0.58	0.3	21	154	171	5	5	0.5	0.5	100	2.18	450	1	0.67	71	5540	14	1	19
92-DU-0032	0.1	3.63	1	370	0.3	1	0.21	0.3	23	58	136	4.65	5	0.5	0.8	30	1.95	335	1	0.46	46	1850	10	1	15
92-DU-0033	0.2	4.3	6	250	0.3	1	1.47	0.3	23	101	83	5.28	5	0.5	1.1	40	2.67	530	1	0.3	54	1330	20	1	11
92-DU-0034	0.2	4.55	20	130	0.3	1	0.3	0.3	29	110	161	6.49	5	0.5	0.6	30	2.18	835	1	0.72	68	3250	24	2	17
92-DU-0035	0.1	4.72	42	90	0.3	1	0.24	0.3	25	97	152	5.94	5	0.5	0.3	40	1.72	575	4	0.51	47	3200	26	1	11
92-DU-0036	0.1	3.75	2	120	0.3	1	0.28	0.3	19	41	44	5.1	5	0.5	0.5	30	1.37	790	1	0.32	24	2050	10	2	7
92-DU-0037	0.1	4.35	4	110	0.3	1	0.25	0.3	13	39	67	5.23	5	0.5	0.4	70	1.14	465	2	0.42	20	2320	18	1	7
92-DU-0038	0.2	4.22	2	90	0.3	1	0.2	0.3	14	45	58	5.09	5	0.5	0.4	40	1.39	605	4	0.33	26	2390	24	1	7

sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
92-DU-0039	0.4	3.26	1	60	0.3	1	0.22	0.3	10	41	51	4.81	5	0.5	0.3	100	0.98	490	1	0.49	20	3210	32	2	8
92-DU-0040	0.4	3.6	2	80	0.3	1	0.31	0.3	12	44	55	4.47	5	0.5	0.3	80	1.15	495	1	0.56	22	4530	30	1	8
92-DU-0041	0.1	4.62	14	100	0.3	1	0.33	0.3	25	47	107	4.95	5	0.5	0.3	50	1.18	630	2	0.68	34	4970	34	6	7
92-DU-0042	0.2	4.77	10	40	0.3	1	0.12	0.3	9	99	87	5.48	5	0.5	0.1	40	0.93	250	2	0.55	25	4530	22	2	9
92-DU-0043	0.1	3.74	64	60	0.3	1	0.16	0.3	22	62	83	4.81	5	0.5	0.2	20	0.76	610	2	0.94	28	7350	20	1	6
92-DU-0044	0.2	4.74	70	80	0.3	1	0.17	0.3	20	170	87	6.13	5	0.5	0.2	50	1.4	500	5	0.65	49	4340	26	2	9
92-DU-0045	0.1	4.25	26	40	0.3	1	0.13	0.3	17	95	229	7.43	5	0.5	0.1	30	1.18	460	2	0.65	30	4310	20	1	14
92-DU-0046	0.1	5.71	52	140	0.3	1	0.21	0.3	30	133	135	7.04	5	0.5	0.5	40	2.42	640	5	0.31	72	2450	20	1	14
92-DU-0047	0.1	3.91	22	80	0.3	1	0.13	0.3	17	90	84	5.27	5	0.5	0.3	30	1.35	305	7	0.86	36	6520	18	1	9
92-DU-0048	0.1	4.47	8	490	0.3	1	0.27	0.5	31	183	190	7.16	5	0.5	0.5	20	1.89	840	1	0.34	97	2050	22	1	18
92-DU-0049	0.1	4.31	24	140	0.3	1	0.29	0.5	35	116	203	6.85	5	0.5	0.5	30	1.98	855	2	0.77	63	4720	30	1	16
92-DU-0050	0.1	4.4	30	60	0.3	1	0.12	0.3	17	80	102	5.78	5	0.5	0.2	20	1.58	515	3	0.63	32	4010	24	1	8
92-DU-0051	0.2	4.56	46	100	0.3	1	0.19	0.5	52	166	111	8.35	5	0.5	0.2	40	1.55	1920	1	0.64	69	3940	42	1	11
92-DU-0052	0.1	5.31	46	130	0.3	1	0.3	0.3	38	111	164	7.86	5	0.5	0.4	40	2.45	1110	1	0.59	85	4140	24	2	14
92-DU-0053	0.1	4.84	28	120	0.3	1	0.2	0.3	27	98	95	7.26	5	0.5	0.4	20	1.89	770	3	0.56	56	3890	18	1	10
92-DU-0054	0.2	2.93	104	160	0.3	1	0.26	0.3	28	82	109	15	5	0.5	0.4	20	1.21	865	3	0.34	38	2500	54	1	10
92-DU-0055	0.1	5.32	38	90	0.3	1	0.43	0.5	81	121	308	9.62	5	0.5	0.2	30	2.79	2185	1	0.57	77	3830	90	1	19
92-DU-0056	0.1	5.22	18	120	0.3	1	0.37	0.5	36	103	174	8.43	5	0.5	0.3	20	2.5	1235	4	0.65	65	4090	26	1	13
92-DU-0057	0.2	5.31	22	180	0.3	1	0.36	0.3	38	153	156	8.43	5	0.5	0.5	30	2.79	910	7	0.37	86	2300	32	1	16
92-DU-0058	0.1	5.71	68	160	0.3	1	0.25	0.3	31	82	139	8.05	5	0.5	0.4	40	1.91	785	3	0.54	58	3200	20	2	12
92-DU-0059	0.1	4.71	44	100	0.3	1	0.26	0.5	67	102	120	8.92	5	0.5	0.3	30	1.73	1860	3	0.61	84	4560	22	1	10
92-DU-0060	0.1	4.73	36	160	0.3	1	0.28	0.3	31	94	82	6.81	5	0.5	0.4	30	1.8	770	6	0.38	54	2380	16	2	10
92-DU-0061	0.2	4.34	36	140	0.3	1	0.22	0.3	30	111	121	5.51	5	0.5	0.4	40	1.46	510	2	0.5	60	2950	20	1	11
92-DU-0062	0.2	4.73	70	170	0.3	1	0.33	0.5	40	133	141	6.79	5	0.5	0.4	40	1.78	640	2	0.46	79	2040	22	4	10
92-DU-0063	0.1	3.98	74	80	0.3	1	0.21	0.3	28	86	132	7.19	5	0.5	0.2	30	1.3	650	3	0.73	39	4280	20	1	8
92-DU-0064	0.4	4.07	58	60	0.3	1	0.22	0.3	31	66	117	6.64	5	0.5	0.1	30	0.88	935	3	0.59	36	3630	12	1	9
92-DU-0065	0.2	5.42	66	250	0.3	1	0.49	0.3	32	108	245	7.89	5	0.5	0.8	60	2.75	885	3	0.42	79	2150	18	1	19
92-DU-0066	0.1	5.18	56	160	0.3	1	0.33	0.3	25	81	108	6.74	5	0.5	0.9	110	2.43	750	2	0.47	54	2430	30	2	14
92-DU-0067	0.2	4.38	52	90	0.3	1	0.26	0.3	24	61	74	5.66	5	0.5	0.3	90	1.41	725	2	0.53	41	4750	38	2	10
92-DU-0068	0.2	4.26	36	110	0.3	1	0.27	0.5	20	71	53	6.54	5	0.5	0.4	60	1.4	570	2	0.41	34	2980	28	2	9
92-DU-0069	0.2	3.64	8	100	0.3	1	0.36	0.3	18	59	59	5.18	5	0.5	0.5	80	1.46	765	2	0.43	34	3010	38	1	10
92-DU-0070	0.2	2.92	2	80	0.3	1	0.3	0.3	15	37	32	3.52	5	0.5	0.4	40	1.09	700	1	0.34	25	2320	18	1	5
92-DU-0071	0.2	3.89	1	70	0.3	1	0.17	0.3	16	47	50	4.68	5	0.5	0.2	40	0.96	580	1	0.54	25	3700	18	1	5
92-DU-0072	0.1	3.68	2	100	0.3	1	0.17	0.3	13	53	51	4.91	5	0.5	0.4	30	1.23	440	3	0.42	28	2670	12	1	7
92-DU-0073	0.4	3.48	8	60	0.3	1	0.09	0.3	7	50	26	5.1	5	0.5	0.2	40	0.62	295	2	0.58	14	4200	20	1	5
92-DU-0074	0.2	3.43	20	110	0.3	1	0.2	0.3	23	67	64	5.11	5	0.5	0.4	60	1.13	875	1	0.71	34	5630	14	2	7
92-DU-0075	0.1	4.44	28	90	0.3	1	0.14	0.3	21	149	61	6.23	5	0.5	0.3	40	1.3	635	30	0.58	89	5010	32	1	7
92-DU-0076	0.2	4.45	64	150	0.3	1	0.22	0.3	24	96	68	6.44	5	0.5	0.6	20	1.41	645	2	0.58	45	4280	22	1	10
92-DU-0077	0.1	5.02	128	160	0.3	1	0.24	0.3	40	95	129	7.26	5	0.5	0.7	20	1.74	820	1	0.71	70	4540	18	1	11
92-DU-0078	0.1	5.3	28	130	0.3	1	0.29	0.3	30	101	89	7.56	5	0.5	0.4	20	2.33	775	2	0.38	57	1920	8	1	12

sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
92-DU-0079	0.2	5.01	48	80	0.3	1	0.2	0.3	25	92	129	7.6	5	0.5	0.2	30	1.8	595	6	0.61	55	4440	16	2	10
92-DU-0080	0.1	4.41	44	90	0.3	1	0.17	0.3	24	78	73	6.85	5	0.5	0.3	20	1.18	580	3	0.6	41	3810	20	1	7
92-DU-0081	0.1	4.83	78	140	0.3	1	0.22	0.3	35	99	152	7.17	5	0.5	0.6	30	2.08	695	2	0.5	78	2670	28	4	12
92-DU-0082	0.2	6.23	90	190	0.3	1	0.17	0.3	30	90	146	8.43	5	0.5	0.8	40	1.96	780	4	0.46	65	2920	16	2	14
92-DU-0083	0.2	4.32	32	110	0.3	1	0.22	0.3	26	79	374	5.98	5	0.5	0.4	60	1.76	415	4	0.32	45	2210	22	1	10
92-DU-0084	0.1	4.96	124	170	0.3	1	0.23	0.3	37	92	197	8.18	5	0.5	0.6	30	2.32	890	1	0.34	69	2230	18	1	16
92-DU-0085	0.1	4.94	90	170	0.3	1	0.19	0.3	31	96	106	7.14	5	0.5	0.5	30	1.77	710	8	0.3	62	1660	22	1	11
92-DU-0086	0.1	4.43	64	140	0.3	1	0.34	0.3	33	112	109	6.13	5	0.5	0.7	30	1.98	600	1	0.33	73	1690	20	2	13
92-DU-0087	0.2	4.61	48	220	0.3	1	0.27	0.3	19	98	109	6	5	0.5	1.1	40	1.79	665	1	0.38	65	1570	22	4	13
92-DU-0088	0.2	3.73	14	140	0.3	1	0.37	0.3	28	63	70	5.61	5	0.5	0.7	70	1.79	1225	1	0.3	43	1850	24	1	10
92-DU-0089	0.4	4.32	60	210	0.3	1	0.33	0.3	20	108	101	5.96	5	0.5	1.2	40	1.93	580	2	0.39	63	1400	24	1	12
92-DU-0090	0.1	4.74	60	200	0.3	1	0.18	0.3	32	118	110	6.39	5	0.5	0.7	30	1.71	600	1	0.4	76	2150	12	2	12
92-DU-0091	0.2	4.97	144	120	0.3	1	0.23	0.5	43	90	134	7.34	5	0.5	0.5	40	1.79	765	2	0.39	82	2170	14	1	13
92-DU-0092	0.1	4.64	50	120	0.3	1	0.29	0.3	37	75	94	7.08	5	0.5	0.5	40	2.09	970	3	0.41	53	2730	16	4	10
92-DU-0093	0.2	4.65	86	190	0.3	1	0.36	0.3	24	88	173	7.15	5	0.5	0.9	60	2.13	745	1	0.37	83	1560	18	1	13
92-DU-0094	0.1	4.96	120	120	0.3	1	0.29	0.3	48	100	267	7.13	5	0.5	0.4	60	1.94	970	3	0.56	75	4000	48	1	12
92-DU-0095	0.2	4.85	232	180	0.3	1	0.38	0.3	43	104	222	7.2	5	0.5	0.8	50	2.63	810	2	0.66	75	3260	48	6	14
92-DU-0096	0.1	4.93	96	120	0.3	1	0.25	0.3	21	103	120	6.43	5	0.5	0.3	30	1.75	395	3	0.63	51	3760	30	4	10
92-DU-0097	0.1	3.83	84	110	0.3	1	0.45	0.3	38	88	156	5.29	5	0.5	0.5	40	2.03	560	2	0.67	78	6000	58	1	8
92-DU-0098	0.1	3.75	32	130	0.3	1	0.3	0.5	31	85	154	5.24	5	0.5	0.6	30	1.89	575	1	0.66	62	5790	38	1	9
92-DU-0099	0.1	4.74	16	130	0.3	1	0.28	0.3	50	214	110	6.82	5	0.5	0.5	30	4.41	1370	1	0.74	108	4530	42	1	14
92-DU-0100	0.2	3.95	12	190	0.3	1	0.34	0.3	25	102	109	5.64	5	0.5	1.1	50	2.56	790	1	0.38	62	1910	68	1	12
92-DU-0101	0.1	5.15	50	130	0.3	1	0.24	0.3	38	89	124	7.41	5	0.5	0.5	30	2.13	1070	3	0.51	63	3370	16	2	12
92-DU-0102	0.1	4.96	54	230	0.3	1	0.39	0.3	40	102	175	7.84	5	0.5	1	70	2.17	935	1	0.46	81	1920	16	1	14
92-DU-0103	0.1	4.91	44	250	0.3	1	0.43	0.3	27	83	192	8.03	5	0.5	1.5	70	2.12	770	1	0.46	68	1860	10	2	15
92-DU-0104	0.2	4.13	54	140	0.3	1	0.29	0.3	41	73	186	6.71	5	0.5	0.4	70	1.68	1930	1	0.82	83	4840	22	1	12
92-DU-0105	0.4	4.64	88	140	0.3	1	0.32	0.3	55	80	104	7.22	5	0.5	0.3	70	1.19	1375	5	0.51	75	2740	26	4	10
92-DU-0106	0.1	4.59	70	90	0.3	1	0.15	0.3	30	62	48	6.27	5	0.5	0.2	40	0.67	695	4	0.47	27	3460	16	1	6
92-DU-0107	0.1	4.28	34	170	0.3	1	0.19	0.3	26	89	95	6	5	0.5	0.8	20	1.68	655	1	0.37	62	1850	8	1	10
92-DU-0108	0.4	5.4	10	190	0.3	1	0.23	0.3	25	75	57	7.19	5	0.5	0.7	180	2.14	725	5	0.34	35	1890	38	1	20
92-DU-0109	0.6	4.59	62	130	0.3	1	0.42	0.3	37	67	616	7.42	5	0.5	0.7	80	1.73	610	3	0.79	59	4820	16	2	12
92-DU-0110	0.2	3.75	10	130	0.3	1	0.49	0.3	27	68	84	6.25	5	0.5	0.8	70	1.68	745	1	0.53	46	3560	22	2	10
92-DU-0111	0.2	5.32	100	150	0.3	1	0.32	1.5	111	110	279	8.58	5	0.5	0.6	120	2.15	1410	6	0.36	203	2580	84	1	17
92-DU-0112	0.2	4.24	136	70	0.3	1	0.14	1	46	118	231	7.25	5	0.5	0.3	30	2.17	510	7	0.58	140	5200	72	1	7
92-DU-0113	0.1	3.52	122	110	0.3	1	0.13	0.3	30	92	70	8.54	5	0.5	0.4	30	1.16	475	5	1	49	6110	46	1	6
92-DU-0114	0.1	3.6	44	100	0.3	1	0.19	0.3	22	69	87	6.46	5	0.5	0.3	20	1.25	440	5	0.78	41	4260	42	1	7
92-DU-0115	0.1	4.34	40	130	0.3	1	0.23	0.5	32	75	104	5.7	5	0.5	0.6	30	1.68	590	2	0.64	61	5460	82	1	8
92-DU-0116	0.6	4.62	110	90	0.3	1	0.27	0.5	44	80	79	6.44	5	0.5	0.4	30	1.61	705	2	0.58	70	4840	108	1	8
92-DU-0117	0.1	3.57	10	100	0.3	1	0.39	0.5	23	66	136	5.05	5	0.5	0.4	40	1.38	440	1	0.4	36	2590	24	1	8
92-DU-0118	0.1	4.26	8	180	0.3	1	0.37	0.5	22	85	125	5.84	5	0.5	0.9	40	2.01	505	1	0.54	51	1820	16	1	11

sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
92-DU-0119	0.2	3.55	4	100	0.3	1	0.35	0.5	27	49	291	5.28	5	0.5	0.5	40	1.4	585	1	0.37	41	2770	24	1	8
92-DU-0120	0.2	3.51	4	130	0.3	1	0.31	1	19	63	80	5.66	5	0.5	0.6	70	1.31	405	2	0.65	32	4940	38	1	9
92-DU-0121	0.2	3.93	6	110	0.3	1	0.24	0.5	20	69	57	5.72	20	0.5	0.4	30	1.35	430	1	0.47	38	3610	16	1	7
92-DU-0122	0.1	3.89	8	160	0.3	1	0.33	0.3	26	83	128	5.57	20	0.5	0.7	40	1.78	650	1	0.34	57	2070	16	1	10
92-DU-0123	0.1	4.21	4	100	0.3	2	0.22	0.5	32	54	161	6.23	20	0.5	0.4	50	1.09	850	1	0.51	27	3380	14	1	8
92-DU-0124	0.1	3.62	8	100	0.3	1	0.22	0.3	25	67	86	4.84	10	0.5	0.3	40	1.13	555	1	0.65	39	4610	8	1	7
92-DU-0125	0.2	3.53	4	110	0.3	1	0.55	0.5	27	56	97	4.11	10	0.5	0.5	40	1.47	605	1	0.22	42	1720	10	1	7
92-DU-0126	0.1	2.76	2	80	0.3	1	0.47	0.3	17	39	59	3.22	10	0.5	0.5	40	1.14	370	1	0.15	31	1290	10	1	5
92-DU-0127	0.2	3.42	4	110	0.3	1	0.36	0.5	18	38	35	4.48	20	0.5	0.5	40	1.2	445	1	0.17	26	1130	24	1	7
92-DU-0128	0.2	4.26	4	80	0.3	1	0.19	0.3	13	55	80	5.63	20	0.5	0.3	40	0.93	375	3	0.33	23	2040	18	2	7
92-DU-0129	0.2	3.92	10	150	0.3	1	0.56	1	32	75	158	4.57	10	0.5	0.7	40	1.69	550	1	0.44	57	2830	18	1	8
92-DU-0130	0.1	3.59	6	70	0.3	1	0.27	0.3	10	76	73	4.11	10	0.5	0.2	40	0.88	190	2	0.45	23	2250	6	1	5
92-DU-0131	0.2	4.45	16	170	0.3	2	0.37	0.5	30	105	224	6.21	20	0.5	0.8	60	2.12	470	1	0.46	76	2030	22	1	12
92-DU-0132	0.2	4.39	10	150	0.3	4	0.37	0.5	31	99	144	6.31	20	0.5	0.9	40	2.22	625	1	0.49	54	2720	32	1	13
92-DU-0133	0.2	4.11	6	170	0.3	1	0.31	0.5	25	135	181	4.96	20	0.5	0.6	60	2.33	430	1	0.42	59	1680	26	1	18
92-DU-0134	0.2	3.3	14	390	0.3	1	0.5	0.3	18	65	111	4.34	20	0.5	0.8	50	1.9	475	1	0.22	37	1170	16	1	10
92-DU-0135	0.2	3.55	40	80	0.3	4	0.19	0.5	16	72	106	5.63	20	0.5	0.3	40	1.07	385	1	0.93	28	7130	6	1	9
92-DU-0136	0.2	4.78	20	200	0.3	1	0.34	1	31	128	144	6.61	20	0.5	1.1	40	2.53	740	1	0.47	67	2320	56	1	16
92-DU-0137	0.1	4.7	16	150	0.3	1	0.28	0.3	24	101	95	5.98	20	0.5	0.6	30	2.19	555	1	0.4	54	2730	28	1	11
92-DU-0138	0.1	4.06	20	170	0.3	1	0.27	0.5	30	81	124	5.82	20	0.5	0.7	40	1.92	550	1	0.51	48	2660	14	2	10
92-DU-0139	0.1	3.73	28	110	0.3	2	0.23	0.3	20	76	97	5.03	20	0.5	0.4	40	1.32	445	1	0.41	37	2370	12	1	8
92-DU-0140	0.2	3.7	36	120	0.3	1	0.31	0.5	38	92	130	5.37	20	0.5	0.6	40	2.1	660	3	0.36	63	2510	156	1	9
92-DU-0141	0.6	4.99	126	80	0.3	1	0.21	0.5	54	106	171	7.61	10	0.5	0.3	30	1.59	580	6	0.54	83	4340	178	1	9
92-DU-0142	0.2	3.81	18	200	0.3	1	0.34	0.5	30	106	110	5.52	20	0.5	0.8	30	1.96	605	1	0.55	55	3280	20	1	10
92-DU-0143	0.1	3.01	18	110	0.3	1	0.53	0.3	23	53	122	3.83	10	0.5	0.4	40	1.14	390	1	0.68	42	5890	18	1	7
92-DU-0144	0.1	3	6	110	0.3	1	0.3	0.5	14	71	64	4.13	10	0.5	0.3	20	1.06	270	1	0.6	31	2860	8	1	6
92-DU-0145	0.1	3.48	10	110	0.3	1	0.56	0.5	24	71	105	4.35	10	0.5	0.4	30	1.39	475	3	0.53	40	4040	10	1	8
92-DU-0146	0.1	3.57	10	110	0.3	1	0.45	0.5	30	54	100	3.72	10	0.5	0.5	30	1.31	500	1	1.3	48	####	10	1	6
92-DU-0147	0.2	3.51	12	110	0.3	1	0.43	0.5	20	83	94	5.32	10	0.5	0.3	30	1.2	320	1	0.86	39	6460	44	1	7
92-DU-0148	0.1	3.7	10	110	0.3	4	0.27	0.5	17	63	60	4.19	10	0.5	0.3	20	0.78	230	2	1.35	29	9810	10	1	4
92-DU-0149	0.1	3.03	14	130	0.3	1	0.43	0.5	25	68	59	3.82	10	0.5	0.5	30	1.2	395	1	1.43	44	####	16	1	6
92-DU-0150	0.1	3.88	18	110	0.3	1	0.32	0.5	33	67	98	5.31	20	0.5	0.6	30	1.4	605	1	0.8	49	6940	24	1	7
92-DU-0151	0.1	3.63	10	90	0.3	1	0.19	0.3	16	83	84	4.66	10	0.5	0.4	30	1.58	295	3	0.63	35	3670	18	1	7
92-DU-0152	0.1	3.67	4	80	0.3	2	0.29	0.3	15	57	61	4.65	10	0.5	0.3	30	1.19	285	1	0.54	32	3700	10	1	6
92-DU-0153	0.2	3.46	4	80	0.3	1	0.38	0.3	21	47	77	4.13	10	0.5	0.3	30	1.23	390	1	0.56	35	3160	10	1	6
92-DU-0154	0.1	3.3	4	90	0.3	1	0.26	0.3	21	49	67	3.98	20	0.5	0.3	50	1.1	480	1	0.44	34	2840	14	1	5
92-DU-0155	0.1	3.65	2	90	0.3	1	0.2	0.3	13	63	53	4.55	10	0.5	0.3	30	1.35	250	1	0.37	29	1840	6	1	6
92-DU-0156	0.1	2.83	4	100	0.3	1	0.29	0.3	20	58	72	4.34	20	0.5	0.6	70	1.56	515	1	0.34	39	2860	10	1	7
92-DU-0157	0.2	3.6	2	70	0.3	2	0.26	0.5	13	62	67	4.94	10	0.5	0.2	30	1.13	270	2	0.37	28	1730	10	1	7
92-DU-0158	0.2	3.17	4	120	0.3	1	0.28	0.3	21	87	127	4.85	10	0.5	0.4	30	1.41	325	1	0.59	42	3290	8	1	7

sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
92-DU-0159	0.2	3.93	6	170	0.3	4	0.29	0.3	22	94	108	5.12	20	0.5	0.9	30	1.63	365	2	0.3	61	1560	24	1	10
92-DU-0160	0.1	3.33	10	120	0.3	1	0.38	0.5	19	71	72	4.15	10	0.5	0.4	40	1.07	335	1	0.45	32	2860	10	1	7
92-DU-0161	0.1	3.61	14	150	0.3	2	0.39	0.5	26	93	173	5.43	5	0.5	0.8	40	1.7	475	1	0.85	54	4980	12	1	11
92-DU-0162	0.2	4.04	20	170	0.3	1	0.41	1	26	81	84	5.12	5	0.5	0.6	30	1.44	440	1	0.31	43	1580	12	1	8
92-DU-0163	0.2	4.49	30	210	0.3	1	0.31	0.5	36	133	175	6.24	5	0.5	0.8	30	1.76	545	3	0.42	92	2880	68	1	11
92-DU-0164	0.2	4.05	90	100	0.3	1	0.2	0.5	19	90	126	5.56	5	0.5	0.4	20	1.13	345	7	0.4	48	2570	188	1	7
92-DU-0165	0.1	4.22	12	90	0.3	1	0.21	0.3	22	82	65	5.62	5	0.5	0.4	30	1.36	465	2	0.47	33	3030	18	1	7
92-DU-0166	0.1	3.82	14	150	0.3	1	0.4	0.3	24	79	121	4.26	5	0.5	0.5	40	1.39	375	1	0.2	47	1540	10	1	9
92-DU-0167	0.1	3.35	14	100	0.3	1	0.25	0.3	12	83	82	4.5	5	0.5	0.4	50	0.99	240	1	0.35	29	2220	6	1	7
92-DU-0168	0.1	2.99	8	250	0.3	1	0.57	0.3	21	91	187	5.22	5	0.5	0.5	30	2.08	495	1	0.36	55	1270	10	1	13
92-DU-0169	0.2	3.06	12	460	0.3	1	0.54	0.3	18	63	156	4.1	5	0.5	0.5	40	1.74	510	1	0.19	41	1130	10	1	10
92-DU-0170	0.2	2.97	12	400	0.5	1	0.44	0.5	13	42	78	3.42	5	0.5	0.7	40	1.5	365	1	0.24	27	1270	12	1	6
92-DU-0171	0.2	3.32	34	110	0.3	1	0.14	0.3	19	55	95	4.23	5	0.5	0.3	50	0.87	405	1	0.61	33	3070	20	1	7
92-DU-0172	0.1	3.82	48	160	0.3	1	0.23	0.3	26	94	113	5.04	5	0.5	0.8	30	1.78	480	1	0.56	61	3090	16	2	10
92-DU-0173	0.1	3.78	56	190	0.3	1	0.27	0.3	36	116	177	5.39	5	0.5	0.8	30	1.95	535	1	0.6	96	3070	26	1	11
92-DU-0174	0.1	4.25	24	210	0.3	1	0.14	0.3	22	121	108	5.28	5	0.5	0.7	30	1.59	305	2	0.43	60	2060	10	1	11
92-DU-0175	0.1	3.77	28	150	0.3	1	0.22	0.3	18	92	106	5.22	5	0.5	0.5	40	1.17	345	1	0.52	41	2970	10	1	7
92-DU-0176	0.1	3.65	18	140	0.3	1	0.2	0.3	16	86	129	4.54	5	0.5	0.5	30	1.15	270	3	0.95	38	6470	6	1	8
92-DU-0177	0.2	3.42	12	300	0.3	1	0.48	0.3	20	69	133	4.36	5	0.5	0.8	40	1.79	475	1	0.36	43	1560	12	1	10
92-DU-0178	0.1	3.25	28	70	0.3	1	0.08	0.3	10	41	46	4.42	5	0.5	0.2	40	0.64	420	2	1.09	17	8390	22	1	4
92-DU-0179	0.1	3.48	18	150	0.3	1	0.21	0.3	22	68	106	4.73	5	0.5	0.5	40	1.39	415	1	0.53	44	2360	16	1	9
92-DU-0180	0.1	4.44	18	170	0.3	1	0.18	0.3	24	108	84	5.55	5	0.5	0.8	30	1.77	360	1	0.37	52	1820	14	1	10
92-DU-0181	0.1	3.38	34	160	0.3	1	0.31	0.3	27	87	94	4.56	5	0.5	0.6	30	1.36	470	1	0.43	52	2650	12	1	9
92-DU-0182	0.1	5.15	32	210	0.3	1	0.18	0.3	29	116	208	6.74	5	0.5	0.7	70	1.72	460	2	0.35	70	2500	18	1	14
92-DU-0183	0.1	3.76	10	110	0.3	1	0.23	0.3	13	81	73	4.57	5	0.5	0.4	30	1.04	255	1	0.61	31	3010	8	1	6
92-DU-0184	0.1	4.92	22	120	0.3	1	0.27	0.3	33	106	146	7.04	5	0.5	0.5	30	1.87	680	4	0.39	54	3160	28	1	10
92-DU-0185	0.2	5.11	34	130	0.3	1	0.33	0.5	29	98	146	7.71	5	0.5	0.6	80	2.63	685	1	0.53	65	2060	14	1	18
92-DU-0186	0.1	5.5	58	150	0.3	1	0.2	0.3	31	81	97	7.12	5	0.5	0.5	40	1.88	760	2	0.18	55	1220	16	1	11
92-DU-0187	0.1	4.57	74	170	0.3	1	0.33	0.3	39	89	148	7.58	5	0.5	0.6	50	2.17	1075	2	0.4	70	2050	18	1	15
92-DU-0188	0.1	5.07	32	190	0.3	1	0.26	0.3	33	92	184	7.23	5	0.5	0.5	40	2.11	915	2	0.28	71	1820	18	1	15
92-DU-0189	0.1	4.96	32	230	0.3	1	0.44	0.3	37	102	127	7.21	5	0.5	0.7	60	2.29	885	1	0.39	74	1660	18	2	14
92-DU-0190	0.1	4.88	48	160	0.3	1	0.28	0.3	37	96	174	7.5	5	0.5	0.6	40	2.13	1120	2	0.56	74	3500	16	1	13
92-DU-0191	0.1	4.28	66	140	0.3	1	0.27	0.3	46	89	143	7.17	5	0.5	0.7	60	1.78	1445	1	0.58	93	3820	22	1	12
92-DU-0192	0.1	4.91	88	220	0.3	1	0.36	0.3	41	105	218	8.05	5	0.5	0.9	70	2.15	965	3	0.31	100	1850	28	1	15
92-DU-0411	0.1	3.85	10	190	0.3	1	0.52	0.3	25	111	128	5.64	5	0.5	1.1	50	2.29	555	1	0.53	59	3010	12	1	11
92-DU-0415	0.1	3.5	16	110	0.3	1	0.35	0.3	23	70	112	4.19	5	0.5	0.4	40	1.15	380	2	1.09	40	7490	8	1	6
92-DU-0417	0.1	3	14	90	0.3	1	0.39	0.3	21	71	139	4.42	5	0.5	0.3	30	1.17	470	2	1.08	37	7680	12	1	6
93 PL 0007	0.1	3.96	2	150	0.3	1	0.45	0.3	19	40	111	5.9	5	0.5	0.6	50	1.78	645	1	0.3	29	1170	16	1	10
93 PL 0008	0.1	3.16	24	90	0.5	1	0.08	0.5	16	38	70	3.47	5	0.5	0.3	30	0.78	790	1	0	33	570	18	1	8
93 PL 0009	0.1	4.41	2	210	0.3	1	0.44	0.3	21	49	84	6.1	5	0.5	1.1	80	2.14	1125	1	0.42	32	1960	14	1	11

sample	Ag *	Al %	As	Ba	Be	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	Ga	Hg	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sc
93 PL 0010	0.1	3.4	2	70	0.3	1	0.3	0.3	23	37	89	4.29	5	0.5	0.3	40	1.29	620	3	0.32	30	2010	22	1	7
93 PL 0011	0.1	4.16	24	170	0.3	2	0.36	0.3	22	124	101	5.74	5	0.5	0.9	50	1.94	590	3	0.39	67	1690	18	1	13
93 PL 0012	0.1	5.52	22	150	0.3	1	0.2	0.3	32	113	116	6.87	5	0.5	0.5	40	2.53	725	4	0.37	63	2550	18	1	14
93 PL 0013	0.1	3.6	26	100	1	1	0.09	0.3	15	41	75	3.71	5	0.5	0.4	30	0.85	830	1	0.01	38	610	16	1	9
93 PL 0014	0.1	4.45	4	100	0.3	1	0.22	0.3	15	49	60	5.29	5	0.5	0.5	40	1.44	635	5	0.35	24	2500	20	1	8
93 PL 0015	0.1	4.84	14	520	0.3	1	0.29	0.3	32	198	201	7.61	5	0.5	0.6	20	2.01	900	1	0.36	104	2160	18	1	19
93 PL 0016	0.1	5.32	60	170	0.3	1	0.33	0.3	27	84	112	6.91	5	0.5	0.9	110	2.48	775	1	0.49	54	2570	30	1	14
93 PL 0017	0.1	4.37	60	220	0.3	1	0.32	0.3	21	108	102	5.97	5	0.5	1.2	40	1.93	590	4	0.39	62	1420	22	1	13
93 PL 0018	0.1	3.4	26	100	0.5	2	0.09	0.3	15	39	73	3.63	5	0.5	0.4	30	0.83	820	1	0	36	580	16	1	8
93 PL 0019	0.1	5.01	52	260	0.3	1	0.43	0.3	30	88	201	8.33	5	0.5	1.5	80	2.21	805	2	0.49	73	2000	8	1	16
93 PL 0020	0.1	4.37	8	180	0.3	1	0.37	0.3	22	88	127	5.86	5	0.5	0.9	40	2	515	2	0.56	49	1870	12	1	11
93 PL 0021	0.1	4.21	14	130	0.3	1	0.22	0.3	24	94	87	5.5	5	0.5	0.5	30	1.98	520	3	0.37	50	2570	20	1	9
93 PL 0022	0.2	3.44	12	480	0.3	1	0.58	0.3	18	67	160	4.29	5	0.5	0.7	40	1.83	535	1	0.2	41	1160	8	1	11
93 PL 0023	0.4	3.35	12	310	0.3	1	0.5	0.3	21	72	142	4.5	5	0.5	0.7	40	1.86	495	1	0.37	44	1600	12	1	10
93 PL 0024	0.1	4.46	44	140	0.3	1	0.26	0.3	36	86	159	6.92	5	0.5	0.6	30	1.96	1035	1	0.51	71	3180	12	1	12
93 PL 0025	0.1	3.34	26	100	0.5	1	0.09	0.3	14	39	72	3.55	5	0.5	0.4	30	0.8	805	1	0	35	560	16	1	8
* All elements are in ppm unless indicated differently																									

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
Detection	1	0.01	10	10	1	10	2	1.00	5.00
92-DU-0001	16	0.17	5	5	146	5	356	3.00	5.00
92-DU-0002	12	0.24	5	5	224	5	90	0.50	2.50
92-DU-0003	15	0.19	5	5	157	5	122	3.00	5.00
92-DU-0004	13	0.2	5	5	174	5	138	6.00	5.00
92-DU-0005	15	0.15	5	5	153	5	204	2.00	5.00
92-DU-0006	19	0.23	5	5	105	5	110	0.50	15.00
92-DU-0007	17	0.22	5	5	100	5	108	0.50	15.00
92-DU-0008	17	0.2	5	5	104	5	90	0.50	10.00
92-DU-0009	22	0.22	5	5	110	5	104	0.50	10.00
92-DU-0010	23	0.2	5	5	87	5	114	0.50	10.00
92-DU-0011	17	0.2	5	5	132	5	96	0.50	10.00
92-DU-0012	25	0.17	5	5	111	5	108	0.50	20.00
92-DU-0013	16	0.2	5	10	125	5	70	0.50	15.00
92-DU-0014	16	0.17	5	20	141	5	100	0.50	15.00
92-DU-0015	11	0.15	5	5	164	5	118	1.00	35.00
92-DU-0016	12	0.14	5	5	108	5	84	0.50	10.00
92-DU-0017	22	0.12	5	5	83	5	112	0.50	5.00
92-DU-0018	16	0.1	5	5	90	5	126	0.50	5.00
92-DU-0019	18	0.23	5	5	143	5	152	0.50	15.00
92-DU-0020	17	0.17	5	5	111	5	98	0.50	15.00
92-DU-0021	25	0.2	5	5	92	5	162	0.50	20.00
92-DU-0022	16	0.27	5	5	120	5	150	0.50	10.00
92-DU-0023	17	0.17	5	5	73	5	122	0.50	15.00
92-DU-0024	17	0.21	5	5	98	5	78	0.50	15.00
92-DU-0025	18	0.26	5	5	115	5	110	0.50	15.00
92-DU-0026	20	0.19	5	5	108	5	164	2.00	15.00
92-DU-0027	15	0.19	5	5	122	5	82	0.50	10.00
92-DU-0028	11	0.16	5	5	125	5	50	2.00	10.00
92-DU-0029	14	0.18	5	60	142	5	154	0.50	10.00
92-DU-0030	11	0.26	5	5	157	5	102	0.50	5.00
92-DU-0031	27	0.13	5	130	102	5	118	0.50	10.00
92-DU-0032	9	0.07	5	5	82	5	74	0.50	5.00
92-DU-0033	67	0.15	5	5	101	5	166	0.50	5.00
92-DU-0034	16	0.13	5	5	156	5	160	1.00	5.00
92-DU-0035	15	0.17	5	5	133	5	124	5.00	5.00
92-DU-0036	20	0.19	5	5	81	5	96	0.50	20.00
92-DU-0037	18	0.21	5	5	86	5	84	0.50	20.00
92-DU-0038	15	0.18	5	5	86	5	94	0.50	20.00

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
92-DU-0039	15	0.17	5	40	91	5	84	0.50	20.00
92-DU-0040	22	0.16	5	10	88	5	80	3.00	20.00
92-DU-0041	19	0.07	5	5	89	5	136	1.00	15.00
92-DU-0042	13	0.16	5	40	130	5	54	0.50	15.00
92-DU-0043	13	0.13	5	5	101	5	70	7.00	10.00
92-DU-0044	13	0.19	5	20	142	5	86	2.00	10.00
92-DU-0045	10	0.15	5	5	198	5	92	10.00	10.00
92-DU-0046	13	0.18	5	5	145	5	158	0.50	10.00
92-DU-0047	11	0.11	5	10	107	5	94	0.50	10.00
92-DU-0048	12	0.1	5	5	129	5	106	1.00	10.00
92-DU-0049	15	0.15	5	5	169	5	134	4.00	5.00
92-DU-0050	11	0.14	5	5	135	5	80	2.00	5.00
92-DU-0051	13	0.19	5	5	154	5	112	1.00	10.00
92-DU-0052	16	0.18	5	5	133	5	180	0.50	5.00
92-DU-0053	14	0.21	5	5	151	5	118	2.00	5.00
92-DU-0054	16	0.11	5	5	137	5	86	7.00	5.00
92-DU-0055	14	0.2	5	5	183	5	264	0.50	5.00
92-DU-0056	15	0.2	5	5	176	5	230	0.50	5.00
92-DU-0057	15	0.27	5	5	183	5	336	0.50	10.00
92-DU-0058	14	0.19	5	5	150	5	122	4.00	10.00
92-DU-0059	14	0.19	5	5	135	5	138	1.00	5.00
92-DU-0060	14	0.15	5	5	125	5	110	0.50	15.00
92-DU-0061	12	0.14	5	5	108	5	128	5.00	10.00
92-DU-0062	15	0.16	5	5	144	5	210	8.00	5.00
92-DU-0063	13	0.23	5	5	180	5	122	7.00	5.00
92-DU-0064	11	0.15	5	5	128	5	52	2.00	5.00
92-DU-0065	19	0.18	5	5	146	5	214	0.50	5.00
92-DU-0066	19	0.21	5	5	124	5	182	0.50	10.00
92-DU-0067	16	0.17	5	10	99	5	102	8.00	15.00
92-DU-0068	16	0.23	5	5	114	5	96	1.00	10.00
92-DU-0069	23	0.17	5	5	88	5	100	0.50	10.00
92-DU-0070	17	0.15	5	5	52	5	84	0.50	10.00
92-DU-0071	13	0.14	5	5	74	5	82	0.50	5.00
92-DU-0072	14	0.15	5	5	87	5	84	0.50	5.00
92-DU-0073	9	0.18	5	5	93	5	44	2.00	5.00
92-DU-0074	14	0.13	5	5	92	5	72	2.00	5.00
92-DU-0075	19	0.17	5	5	122	5	106	0.50	5.00
92-DU-0076	14	0.22	5	5	135	5	110	1.00	5.00
92-DU-0077	13	0.2	5	5	138	5	152	0.50	5.00
92-DU-0078	16	0.18	5	5	144	5	132	0.50	5.00

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
92-DU-0079	13	0.19	5	5	126	5	118	1.00	5.00
92-DU-0080	11	0.2	5	5	122	5	92	0.50	5.00
92-DU-0081	14	0.17	5	5	118	5	204	3.00	5.00
92-DU-0082	14	0.2	5	5	154	5	192	0.50	20.00
92-DU-0083	13	0.14	5	5	103	5	188	0.50	15.00
92-DU-0084	12	0.19	5	5	168	5	190	0.50	15.00
92-DU-0085	12	0.2	5	5	142	5	120	4.00	10.00
92-DU-0086	14	0.19	5	5	137	5	150	0.50	10.00
92-DU-0087	16	0.17	5	5	98	5	202	3.00	10.00
92-DU-0088	19	0.2	5	5	85	5	140	0.50	15.00
92-DU-0089	15	0.17	5	5	102	5	208	7.00	15.00
92-DU-0090	12	0.16	5	5	127	5	114	0.50	10.00
92-DU-0091	13	0.18	5	5	129	5	124	0.50	10.00
92-DU-0092	16	0.21	5	5	120	5	148	0.50	10.00
92-DU-0093	17	0.16	5	5	106	5	218	2.00	10.00
92-DU-0094	17	0.19	5	5	146	5	206	5.00	10.00
92-DU-0095	19	0.19	5	5	145	5	244	5.00	10.00
92-DU-0096	19	0.19	5	5	163	5	178	7.00	10.00
92-DU-0097	27	0.06	5	5	89	5	230	2.00	5.00
92-DU-0098	16	0.14	5	5	112	5	212	1.00	5.00
92-DU-0099	18	0.16	5	5	168	5	228	0.50	5.00
92-DU-0100	21	0.19	5	5	117	5	334	8.00	5.00
92-DU-0101	14	0.17	5	5	123	5	164	0.50	15.00
92-DU-0102	19	0.18	5	5	109	5	248	0.50	10.00
92-DU-0103	18	0.22	5	5	114	5	234	4.00	10.00
92-DU-0104	18	0.12	5	5	77	5	188	0.50	5.00
92-DU-0105	27	0.13	5	5	112	5	116	0.50	5.00
92-DU-0106	15	0.17	5	5	115	5	52	4.00	5.00
92-DU-0107	15	0.15	5	5	102	5	104	6.00	5.00
92-DU-0108	15	0.22	5	5	137	5	164	0.50	15.00
92-DU-0109	14	0.07	5	5	122	5	230	1.00	10.00
92-DU-0110	18	0.09	5	5	97	5	192	1.00	10.00
92-DU-0111	15	0.21	5	5	119	5	304	1.00	10.00
92-DU-0112	9	0.11	5	5	83	5	210	15.00	5.00
92-DU-0113	13	0.06	5	5	188	5	128	2.00	10.00
92-DU-0114	16	0.21	5	5	133	5	138	11.00	10.00
92-DU-0115	14	0.17	5	5	100	5	328	1.00	10.00
92-DU-0116	16	0.17	5	5	113	5	386	2.00	10.00
92-DU-0117	17	0.16	5	5	106	5	90	2.00	10.00
92-DU-0118	15	0.19	5	5	121	5	138	0.50	10.00

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
92-DU-0119	14	0.14	5	5	99	5	164	0.50	10.00
92-DU-0120	16	0.17	5	5	93	5	162	0.50	10.00
92-DU-0121	13	0.17	5	5	107	5	110	0.50	10.00
92-DU-0122	17	0.15	5	5	104	5	130	0.50	5.00
92-DU-0123	14	0.15	5	5	117	5	90	2.00	10.00
92-DU-0124	15	0.12	5	5	87	5	66	0.50	5.00
92-DU-0125	18	0.15	5	5	71	5	92	6.00	15.00
92-DU-0126	14	0.13	5	5	52	5	92	0.50	10.00
92-DU-0127	17	0.17	5	5	66	5	102	0.50	15.00
92-DU-0128	13	0.2	5	5	106	5	76	0.50	10.00
92-DU-0129	28	0.19	5	5	88	5	152	0.50	10.00
92-DU-0130	17	0.14	5	5	89	5	48	0.50	10.00
92-DU-0131	23	0.21	5	5	151	5	192	2.00	10.00
92-DU-0132	20	0.22	5	5	151	5	226	0.50	10.00
92-DU-0133	18	0.2	5	5	195	5	156	0.50	5.00
92-DU-0134	17	0.14	5	5	81	5	120	0.50	10.00
92-DU-0135	17	0.15	5	5	153	5	64	0.50	5.00
92-DU-0136	22	0.22	5	5	143	5	240	8.00	5.00
92-DU-0137	22	0.2	5	5	125	5	142	0.50	10.00
92-DU-0138	19	0.22	5	5	122	5	98	0.50	5.00
92-DU-0139	16	0.18	5	5	111	5	70	8.00	5.00
92-DU-0140	17	0.16	5	5	98	5	534	3.00	5.00
92-DU-0141	13	0.19	5	5	126	5	382	1.00	5.00
92-DU-0142	22	0.21	5	5	129	5	122	12.00	5.00
92-DU-0143	29	0.12	5	5	72	5	96	0.50	5.00
92-DU-0144	21	0.17	5	5	92	5	66	0.50	5.00
92-DU-0145	28	0.14	5	5	86	5	84	3.00	5.00
92-DU-0146	22	0.06	5	5	66	5	88	1.00	2.50
92-DU-0147	31	0.18	5	5	113	5	98	0.50	5.00
92-DU-0148	20	0.13	5	5	89	5	50	0.50	5.00
92-DU-0149	28	0.04	5	5	78	5	98	0.50	15.00
92-DU-0150	18	0.12	5	5	100	5	112	1.00	10.00
92-DU-0151	15	0.13	5	5	122	5	120	0.50	10.00
92-DU-0152	13	0.16	5	5	86	5	66	0.50	10.00
92-DU-0153	12	0.13	5	5	77	5	88	0.50	10.00
92-DU-0154	14	0.11	5	5	66	5	80	0.50	10.00
92-DU-0155	10	0.12	5	5	94	5	58	0.50	10.00
92-DU-0156	17	0.12	5	5	71	5	92	0.50	10.00
92-DU-0157	13	0.18	5	5	101	5	64	0.50	10.00
92-DU-0158	16	0.14	5	5	111	5	74	0.50	5.00

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
92-DU-0159	19	0.21	5	5	108	5	176	0.50	10.00
92-DU-0160	27	0.18	5	5	92	5	72	0.50	5.00
92-DU-0161	26	0.07	5	5	135	5	112	4.00	5.00
92-DU-0162	28	0.21	5	5	111	5	84	0.50	10.00
92-DU-0163	18	0.23	5	5	126	5	234	0.50	10.00
92-DU-0164	14	0.15	5	5	104	5	368	3.00	10.00
92-DU-0165	16	0.19	5	5	128	5	86	0.50	10.00
92-DU-0166	24	0.18	5	5	94	10	90	0.50	5.00
92-DU-0167	16	0.15	5	5	121	5	70	2.00	5.00
92-DU-0168	16	0.25	5	5	109	10	106	1.00	5.00
92-DU-0169	12	0.13	5	5	73	10	92	0.50	5.00
92-DU-0170	10	0.08	5	5	46	5	120	0.50	5.00
92-DU-0171	8	0.09	5	5	80	5	74	0.50	5.00
92-DU-0172	14	0.15	5	5	106	10	124	1.00	5.00
92-DU-0173	15	0.17	5	5	111	10	176	0.50	5.00
92-DU-0174	12	0.18	5	10	128	10	102	2.00	5.00
92-DU-0175	15	0.12	5	5	142	5	96	0.50	5.00
92-DU-0176	16	0.13	5	5	100	10	80	0.50	5.00
92-DU-0177	15	0.13	5	5	81	10	108	0.50	10.00
92-DU-0178	11	0.07	5	10	76	5	66	0.50	10.00
92-DU-0179	12	0.11	5	5	106	10	104	0.50	5.00
92-DU-0180	14	0.18	5	5	128	10	112	0.50	5.00
92-DU-0181	17	0.16	5	5	98	10	96	5.00	5.00
92-DU-0182	14	0.2	5	20	158	10	120	9.00	10.00
92-DU-0183	19	0.17	5	5	113	10	66	0.50	5.00
92-DU-0184	21	0.28	5	5	167	10	130	2.00	5.00
92-DU-0185	18	0.2	5	90	156	10	174	3.00	15.00
92-DU-0186	14	0.2	5	5	125	10	140	0.50	15.00
92-DU-0187	16	0.18	5	5	127	10	178	0.50	15.00
92-DU-0188	15	0.11	5	5	107	10	242	7.00	15.00
92-DU-0189	18	0.17	5	5	123	10	204	2.00	15.00
92-DU-0190	15	0.13	5	5	113	10	212	2.00	10.00
92-DU-0191	14	0.16	5	5	93	10	232	2.00	10.00
92-DU-0192	18	0.19	5	5	120	10	280	1.00	10.00
92-DU-0411	28	0.22	5	5	124	10	156	1.00	10.00
92-DU-0415	20	0.12	5	5	82	5	78	0.50	10.00
92-DU-0417	21	0.13	5	5	96	5	88	0.50	10.00
93 PL 0007	20	0.23	5	5	100	10	108	0.50	20.00
93 PL 0008	9	0.1	5	5	47	5	98	0.50	15.00
93 PL 0009	25	0.2	5	5	91	10	160	0.50	15.00

sample	Sr	Ti %	Tl	U	V	W	Zn	Au ppb	Nb
93 PL 0010	18	0.17	5	5	73	10	122	9.00	10.00
93 PL 0011	19	0.19	5	5	104	10	164	135.00	5.00
93 PL 0012	15	0.18	5	50	141	10	154	7.00	10.00
93 PL 0013	10	0.1	5	5	51	5	106	1.00	10.00
93 PL 0014	17	0.19	5	5	90	5	100	0.50	10.00
93 PL 0015	15	0.1	5	5	137	10	114	0.50	10.00
93 PL 0016	20	0.21	5	10	126	10	194	3.00	5.00
93 PL 0017	16	0.17	5	5	102	10	210	2.00	5.00
93 PL 0018	10	0.1	5	5	49	5	104	134.00	5.00
93 PL 0019	19	0.23	5	5	117	20	246	24.00	10.00
93 PL 0020	15	0.19	5	5	124	10	142	1.00	15.00
93 PL 0021	16	0.17	5	5	115	5	134	3.00	10.00
93 PL 0022	15	0.14	5	5	78	10	96	1.00	10.00
93 PL 0023	13	0.13	5	5	82	10	112	2.00	10.00
93 PL 0024	14	0.12	5	5	104	10	196	2.00	10.00
93 PL 0025	10	0.1	5	5	48	5	102	131.00	10.00
* All elements are in ppm unless indicated differently									

STRIAE - ALL SOURCES		
EASTING	NORTHING	ORIENT
497330	7506620	303
497220	7506910	295
497220	7506910	310
497340	7507920	325
497340	7507920	350
497420	7508780	325
497420	7508780	338
497460	7505330	288
497460	7505330	323
497460	7505330	345
497390	7505460	311
497390	7505460	327
497390	7505460	350
497220	7505000	330
497220	7505000	340
497220	7505000	350
497320	7505080	185
497320	7505080	340
497490	7504900	322
497490	7504900	335
497490	7504900	348
497800	7504920	198
497800	7504920	353
498240	7504420	196
498240	7504420	289
498800	7504690	208
498800	7504690	310
498800	7504690	345
498510	7505320	315
503560	7515100	295
502720	7509490	303
502430	7504040	304
502430	7504040	310
502430	7504040	318
503350	7497320	320
459320	7434400	314
458340	7441440	328
458340	7441440	335
458340	7441440	353
458210	7448320	322
459030	7454080	325
459030	7454080	335
459030	7454080	350
458520	7458940	333
459940	7471830	315
460180	7478350	325
459980	7484860	335
458280	7510500	315
458280	7510500	328
465740	7434480	322
466950	7441210	308
466950	7441210	332
466460	7448170	328
465150	7459500	325
465150	7459500	332

EASTING	NORTHING	ORIENT
465840	7466000	343
465710	7472130	318
465710	7472130	322
466600	7478500	330
466980	7497510	321
466980	7497510	327
466560	7503640	325
467390	7509560	325
458210	7514720	320
490090	7519510	305
490580	7508020	322
490580	7508020	327
471750	7433930	337
471750	7433930	348
472640	7441460	328
472180	7448450	335
472160	7454930	331
471830	7458980	332
471830	7458980	338
471660	7465720	328
471950	7472060	328
472030	7478780	357
472030	7478780	332
471070	7485280	358
471070	7485280	332
471450	7490530	315
472270	7515150	325
466360	7515530	325
466360	7515530	310
484820	7515750	281
484820	7515750	315
490380	7503960	332
490790	7497950	330
483450	7498300	325
484630	7508260	318
477110	7504120	330
477350	7498010	325
477640	7491100	322
477640	7491100	332
477640	7491100	267
483830	7490620	320
490770	7491500	356
490770	7491500	317
496740	7490920	320
496740	7490920	327
496800	7497470	325
496880	7503610	342
496880	7503610	308
477780	7485860	327
478180	7480470	338
478180	7480470	310
478820	7473140	325
478330	7466790	327
478400	7459710	331
479060	7454500	345
478730	7447960	328
478730	7447960	358

EASTING	NORTHING	ORIENT
478670	7441580	345
485370	7434920	278
485370	7434920	325
483030	7441370	332
484940	7453990	340
485770	7460130	350
483920	7485240	333
491180	7485240	332
503480	7484920	330
485290	7467060	336
485290	7467060	340
491060	7466500	336
491030	7458780	358
491030	7458780	327
490320	7453840	353
490440	7448260	305
490440	7448260	335
490120	7441620	350
490970	7434640	348
497730	7433940	350
497730	7433940	340
497730	7433940	345
498030	7441320	345
497780	7448870	342
497450	7453930	333
497480	7459860	355
497480	7459860	328
503580	7490670	327
509030	7491470	344
509030	7491470	240
509560	7497610	346
509230	7503630	327
509400	7508280	327
509820	7515730	335
509790	7522300	293
497090	7466050	350
497090	7466050	335
505030	7465590	342
505080	7459030	355
505460	7453680	283
505120	7448490	285
504910	7440740	313
504530	7433820	336
509900	7434140	346
510720	7440980	355
511190	7447910	320
511190	7447910	235
511980	7453380	265
511980	7453380	288
511980	7453380	318
512710	7458520	305
511220	7464970	328
511100	7472080	310
510500	7477930	338
510280	7484690	288
517300	7472490	315
517800	7465920	308

EASTING	NORTHING	ORIENT
519670	7459210	318
519520	7454100	325
518210	7447910	342
517860	7441180	305
517310	7433820	335
523920	7433910	280
523380	7439670	350
523940	7448020	345
524690	7453460	285
524690	7453460	305
525120	7458390	342
524260	7465520	350
523510	7471390	330
522430	7478150	338
516700	7477890	305
515620	7526590	323
522810	7532230	325
522080	7526660	299
522980	7521330	277
522980	7521330	304
515360	7522570	290
515890	7515410	320
521490	7516060	320
521260	7509340	328
515130	7508560	318
514820	7502920	325
521070	7503070	318
536660	7465320	325
535860	7471630	321
535860	7471630	325
516450	7484480	312
516120	7490310	340
530680	7447720	342
530680	7447720	285
529520	7440480	303
529520	7440480	315
529950	7433680	312
536390	7433240	310
536360	7440470	320
536190	7447470	310
531620	7453860	322
535780	7484220	335
530800	7484520	335
523180	7484830	340
528580	7490940	320
534980	7490310	325
534820	7537380	310
534880	7532530	328
534820	7526070	333
535450	7520040	295
535670	7513730	322
534800	7508330	328
535120	7502980	318
535120	7502980	292
535480	7497080	324
528280	7497180	318
528280	7532540	335

EASTING	NORTHING	ORIENT
527720	7526480	328
530570	7519090	332
528880	7514880	315
527690	7508830	334
528460	7504210	325
521790	7497190	335
515960	7496720	325
484220	7478720	328
484540	7472530	335
490810	7471630	345
491480	7478530	327
496700	7472010	333
504030	7478100	340
524500	7443620	295
515380	7528250	295
513720	7495600	340
513720	7495600	320
514050	7495900	360
514050	7495900	310
521900	7522900	335
522980	7522060	303
522790	7522130	288
522790	7522130	312
522790	7522130	290
520320	7523590	295
518190	7525000	295
519220	7521820	290
519750	7521550	320
519600	7521310	300
519600	7521310	320
519600	7521310	332
523530	7521860	285
STRIAE FROM OTHER SOURCES		
530470	7526190	303
529490	7528340	310
531080	7525170	306
532520	7522770	314
532020	7522730	314
533330	7523210	314
533630	7523510	304
533100	7526000	332
533250	7526380	336
533610	7526440	330
533470	7526910	323
533780	7528180	323
534160	7523690	313
534180	7524060	322
534180	7524380	321
534090	7524640	314
538320	7525070	293
536430	7520120	313
513950	7526530	301
514210	7525730	300
514580	7525470	307
518730	7528940	303

EASTING	NORTHING	ORIENT
519220	7529360	305
519340	7529630	307
520520	7529040	310
528920	7491310	334
522680	7495210	327
523420	7493000	310
524620	7493540	321
523310	7499040	326
525190	7498230	321
527620	7492890	335
528690	7494980	323
534640	7495320	334
539080	7498370	321
537170	7504620	307
537070	7500040	325
534440	7503470	332
532780	7506000	325
531680	7506520	325
531800	7504740	325
529370	7506280	321
527920	7502090	325
526180	7505130	331
525000	7503360	319
524060	7505370	312
523460	7500100	318
523920	7506580	316
523680	7507140	298
523520	7507480	304
521940	7508720	326
523180	7509680	326
523380	7512360	319
523830	7512820	291
525910	7510630	305
525680	7513920	286
526840	7513930	306
529420	7509810	325
538430	7509320	324
522090	7513010	316
529730	7496410	331
536670	7508590	324
517790	7497420	313
542360	7459580	336
542380	7460110	337
541930	7461180	329
541320	7461490	325
539490	7461190	325
539020	7459920	323
538890	7462580	330
535520	7464780	321
522280	7472730	302
522940	7473010	302
522420	7478880	318
523510	7478870	320
533720	7481000	336
532480	7485830	335
524180	7483060	322
522060	7481610	317

EASTING	NORTHING	ORIENT
542170	7437380	317
539200	7440300	322
537440	7444020	335
536910	7445230	307
523910	7447470	306
524080	7448160	305
522070	7448510	295
522880	7448520	295
522680	7449170	302
522680	7449720	310
522440	7450690	296
522170	7451040	295
527380	7448570	306
528380	7450230	303
535780	7446780	302
537420	7458420	319
538560	7456000	324
539910	7457220	316
540520	7457600	321
541860	7447600	324
478610	7434600	336
483780	7432610	333
484960	7433420	334
485400	7434970	318
486410	7432540	340
486780	7433630	335
493990	7439980	346
481630	7451210	340
484230	7451580	341
480660	7457870	337
462580	7433580	334
466380	7435880	333
460320	7439990	308
457680	7442580	325
462700	7441860	329
463930	7441780	328
464150	7441780	330
467550	7444170	330
471040	7440900	329
471710	7441260	333
462290	7446770	329
473680	7445610	332
474560	7454400	331
477950	7458500	325
484580	7461780	327
489680	7473180	333
473660	7512420	358
477450	7501960	330
477400	7501400	339
473700	7511300	352
485400	7465900	357
486100	7462800	337
478100	7457850	323
474850	7453800	332
482100	7450500	333
484450	7451300	333
473600	7445600	334

EASTING	NORTHING	ORIENT
472100	7440300	320
462600	7446100	332
464000	7440600	332
459400	7432900	325
458100	7441750	335
483350	7432900	338
513000	7526850	315
517150	7525200	317
536600	7510650	314
526100	7511350	321
518650	7502200	324
527600	7497900	343
518700	7496000	300
537450	7494200	338
524200	7490000	328
532500	7483400	342
535500	7460300	316
502800	7454900	346
507150	7453600	275
514650	7456000	282
505350	7451800	275
505350	7451800	348
509200	7443200	275
509200	7443200	352
494100	7439100	350
500600	7435900	357
509200	7432350	317
521000	7448900	350
530000	7440400	353
540400	7449100	336