

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
373	PD701	Sungai Umas Umas	S. Brantian	Ub	2	6.0	3	1	B.
374	PD702	Sungai Umas Umas	S. Brantian	Ub	2	10.0	4	1	R.B.
375	PD703	Sungai Umas Umas	S. Brantian	P.kn	1	4.0	2	2	Y.G.
376	PD704	Sungai Tiagau	S. Brantian	P.kn	1	5.0	3	1	B.
377	PD705	Sungai Umas Umas	S. Brantian	P.kn	3	12.0	3	1	L.B.
378	PD706	Sungai Umas Umas	S. Brantian	P.kn	2	10.0	3	1	B.
379	PD707	Sungai Umas Umas	S. Brantian	P.kn	1	3.0	2	1	Y.G.
380	PD708	Sungai Umas Umas	S. Brantian	P.kn	1	2.0	2	1	L.B.
381	PD709	Sungai Umas Umas	S. Brantian	P.kn	3	15.0	4	1	B.
382	PD710	Sungai Umas Umas	S. Brantian	P.kn	1	4.0	3	2	Y.G.
383	PD711	Sungai Umas Umas	S. Brantian	P.kn	3	10.0	3	1	G.
384	PD712	Sungai Umas Umas	S. Brantian	P.kn	1	6.0	3	4	L.B.
385	PD713	Sungai Umas Umas	S. Brantian	P.kn	1	5.0	3	2	Y.B.
386	PD714	Sungai Umas Umas	S. Brantian	P.kn	1	2.0	3	1	Y.B.
387	PD715	Sungai Umas Umas	S. Brantian	P.kn	1	6.0	4	1	Y.B.
388	PD716	Sungai Umas Umas	S. Brantian	P.kn	1	15.0	4	1	G.
389	PD717	Sungai Umas Umas	S. Brantian	Ub	1	5.0	4	1	R.B.
390	PD718	Sungai Umas Umas	S. Brantian	Ub	1	5.0	4	1	R.B.
391	PD719	Sungai Umas Umas	S. Brantian	Ub	1	5.0	4	1	R.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
392	PDg01	Sungai Tiagau	S. Brantian	P.kn	2	6.0	3	1	L.B.
393	PDg02	Sungai Tiagau	S. Brantian	P.kn	1	3.0	2	1	Y.B.
394	PDg03	Sungai Tiagau	S. Brantian	P.kn	1	1.0	1	2	D.B.
395	PDg04	Sungai Tiagau	S. Brantian	P.kn	1	3.0	2	1	Y.B.
396	PDg05	Sungai Tiagau	S. Brantian	P.kn	1	5.0	2	3	L.B.
397	PDg06	Sungai Tiagau	S. Brantian	P.kn	1	1.0	2	2	Y.B.
398	PDg07	Sungai Tiagau	S. Brantian	Ub	1	2.0	1	2	L.B.
399	PDg08	Sungai Tiagau	S. Brantian	Ub	1	3.0	2	3	B.
400	PDg09	Sungai Tiagau	S. Gemarohan	Ub	3	4.0	3	2	D.B.
401	PDg10	Sungai Umas Umas	S. Brantian	P.kn	2	8.0	4	1	B.
402	PDg11	Sungai Umas Umas	S. Brantian	P.kn	2	10.0	4	1	B.
403	PDg12	Sungai Umas Umas	S. Brantian	P.kn	2	15.0	4	1	B.
404	PDg13	Sungai Umas Umas	S. Brantian	P.kn	3	15.0	3	1	L.B.
405	PDg14	Sungai Umas Umas	S. Brantian	P.kn	3	10.0	4	1	L.B.
406	PDg15	Sungai Umas Umas	S. Brantian	P.kn	5.0	6.0	4	1	W.B.
407	PDg16	Sungai Umas Umas	S. Brantian	Ub	1	6.0	4	1	R.B.
408	PDg17	Sungai Umas Umas	S. Brantian	Ub	1	5.0	4	1	R.B.
409	PDg18	Sungai Umas Umas	S. Brantian	P.kn	1	6.0	4	1	B.
410	PDg19	Sungai Umas Umas	S. Brantian	P.kn	1	6.0	4	1	B.
411	PDg20	Sungai Umas Umas	S. Brantian	P.kn	1	2.0	2	1	B.
412	PDg21	Sungai Umas Umas	S. Gumbal	Ub	1	2.0	4	1	D.B.
413	PDg22	Sungai Umas Umas	S. Gumbal	Ub	2	5.0	2	2	B.
414	PDg23	Sungai Umas Umas	S. Gumbal	Ub	1	2.0	4	1	D.B.
415	PDg24	Sungai Umas Umas	S. Gumbal	Ub	1	1.0	3	2	D.B.
416	PDg25	Sungai Umas Umas	S. Brantian	P.kn	3	6.0	3	2	D.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
336	PCn21	Sungai Tiagau	S. Tiagau	P.kl	1	1.5	2	4	B.
337	PCn22	Sungai Tiagau	S. Mawing	P.kl	1	2.0	2	4	Y.B.
338	PCn23	Sungai Tiagau	S. Mawing	P.kl	1	1.5	2	3	G.B.
339	PCn24	Sungai Tiagau	S. Mawing	P.kl	2	7.0	2	2	C.
340	PCn25	Sungai Tiagau	S. Mawing	P.kl	2	6.0	3	1	B.
341	PCn26	Sungai Tiagau	S. Tiagau	P.kl	1	1.5	2	3	Y.B.
342	PCn27	Sungai Tiagau	S. Tiagau	P.kl	1	1.5	2	2	Y.B.
343	PCn28	Sungai Tiagau	S. Tiagau	P.kl	1	2.0	2	3	B.
344	PCn29	Sungai Tiagau	S. Mawing	P.kl	1	1.0	1	3	Y.B.
345	PCn30	Sungai Tiagau	S. Mawing	P.kl	2	3.0	3	3	B.
346	PCn31	Sungai Tiagau	S. Mawing	P.kl	1	2.0	2	4	G.B.
347	PCn32	Sungai Tiagau	S. Mawing	P.kl	1	2.0	2	4	B.
348	PCn33	Sungai Tiagau	S. Mawing	P.kl	1	2.0	0	4	B.
349	PCn34	Sungai Tiagau	S. Mawing	P.kl	1	2.5	2	3	Y.B.
350	PCn35	Sungai Tiagau	S. Mawing	P.kl	1	2.0	2	1	B.
351	PCn36	Sungai Tiagau	S. Tiagau	P.kl	1	4.0	2	3	B.
352	PCn37	Sungai Tiagau	S. Tiagau	P.kl	2	3.0	3	2	Y.B.
353	PCn38	Sungai Tiagau	S. Tiagau	P.kl	1	2.0	2	2	G.B.
354	PCn39	Sungai Tiagau	S. Tiagau	P.kl	1	3.0	2	4	B.
355	PCn40	Sungai Tiagau	S. Tiagau	P.kl	1	3.0	2	4	G.B.
356	PCn41	Sungai Tiagau	S. Mawing	mod./s.s.	1	2.0	2	1	B.
357	PCn42	Sungai Tiagau	S. Mawing	mod./s.s.	3	10.0	2	1	B.
358	PCn43	Sungai Tiagau	S. Mawing	P.kl	2	4.0	2	2	B.
359	PCn44	Sungai Tiagau	S. Mawing	P.kl	2	3.0	2	3	B.Y.
360	PCn45	Sungai Tiagau	S. Mawing	P.kl	1	1.0	1	3	B.Y.
361	PCn46	Sungai Tiagau	S. Mawing	P.kl	2	3.0	2	3	B.Y.
362	PCn47	Sungai Tiagau	S. Mawing	P.kl	3	8.0	2	3	B.Y.
363	PCn48	Sungai Tiagau	S. Mawing	P.kl	1	2.0	1	3	B.Y.
364	PCn49	Sungai Tiagau	S. Mawing	P.kl	1	1.0	1	3	B.Y.
365	PCn50	Sungai Tiagau	S. Mawing	P.kl	1	2.0	2	1	Y.B.
366	PCn51	Sungai Tiagau	S. Tiagau	P.kl	2	3.0	2	3	B.
367	PCn52	Sungai Tiagau	S. Tiagau	P.kl	1	2.5	2	3	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
368	PCJ01	Sungai Tiagau	S. Mawing	P.kl	1	3.0	2	4	L.B.
369	PCJ02	Sungai Tiagau	S. Mawing	P.kl	1	1.0	1	2	Y.B.
370	PCJ03	Sungai Tiagau	S. Mawing	P.kl	1	4.0	3	2	Y.B.
371	PCJ04	Sungai Tiagau	S. Mawing	P.kl	1	4.0	2	2	B.
372	PCJ05	Sungai Tiagau	S. Mawing	P.kl	3	18.0	4	2	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
417	P1x25	Sungai Umas Umas	S. Brantian	P.Km	1	0.5	2	2	D.G.
418	P1x27	Sungai Umas Umas	S. Brantian	P.Km	3	3.0	4	1	D.B.
419	P1x28	Sungai Umas Umas	S. Brantian	P.Km	4	14.0	2	4	G.B.
420	P1x29	Sungai Umas Umas	S. Gumbal	Ub	1	2.0	4	2	D.B.
421	P1x30	Sungai Umas Umas	S. Gumbal	Ub	2	4.0	2	2	D.B.
422	P1x31	Sungai Umas Umas	S. Brantian	Ub	1	2.0	3	1	B.
423	P1x32	Sungai Umas Umas	S. Brantian	P.Km	1	4.0	4	1	B.
424	P1x33	Sungai Umas Umas	S. Brantian	P.Km	1	4.0	3	2	B.
425	P1x34	Sungai Umas Umas	S. Tambuk	P.Km	1	1.0	3	2	Y.B.
426	P1x35	Sungai Umas Umas	S. Tambuk	Ub	1	4.0	3	2	D.G.
427	P1x36	Sungai Umas Umas	S. Bang	Ub	1	2.0	3	4	D.G.
428	P1x37	Sungai Umas Umas	S. Brantian	P.Km	1	1.5	1	1	B.
429	P1x38	Sungai Umas Umas	S. Tambuk	P.Km	1	2.0	3	1	Y.B.
430	P1x39	Sungai Umas Umas	S. Tambuk	P.Km	1	2.0	4	1	Y.B.
431	P1x40	Sungai Umas Umas	S. Brantian	P.Km	4	14.0	4	1	G.B.
432	P1x41	Sungai Umas Umas	S. Geminchau	P.Km	3	20.0	3	2	D.B.
433	P1x42	Sungai Umas Umas	S. Tambuk	P.Km	1	1.0	2	3	D.B.
434	P1x43	Sungai Umas Umas	S. Bang	P.Km	2	3.0	2	2	D.B.
435	P1x44	Sungai Umas Umas	S. Bang	P.Km	1	2.0	2	3	D.B.
436	P1x45	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	1	3	C.B.
437	P1x46	Sungai Umas Umas	S. Bang	P.Km	1	0.5	2	4	Y.B.
438	P1x47	Sungai Umas Umas	S. Bang	P.Km	1	2.0	2	2	L.B.
439	P1x48	Sungai Umas Umas	S. Geminchau	P.Km	3	5.0	2	3	Y.B.
440	P1x49	Sungai Umas Umas	S. Geminchau	P.Km	1	0.5	3	3	D.B.
441	P1x50	Sungai Umas Umas	S. Geminchau	P.Km	1	1.0	2	3	D.B.
442	P1x51	Sungai Umas Umas	S. Geminchau	P.Km	1	1.0	2	3	Y.B.
443	P1x52	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	1	4	G.
444	P1x53	Sungai Umas Umas	S. Bang	P.Km	1	1.5	1	3	B.
445	P1x54	Sungai Umas Umas	S. Geminchau	P.Km	1	1.0	1	3	Y.B.
446	P1x55	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	G.

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Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
457	P1h11	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	3	2	B.
458	P1h12	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
459	P1h13	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	2	3	B.Y.
460	P1h14	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	2	3	B.Y.
461	P1h15	Sungai Umas Umas	S. Gita	P.Km	1	0.5	2	3	B.Y.
462	P1h16	Sungai Umas Umas	S. Gita	P.Km	1	2.0	2	3	B.Y.
463	P1h17	Sungai Umas Umas	S. Gita	P.Km	1	0.5	1	3	B.Y.
464	P1h18	Sungai Umas Umas	S. Gita	P.Km	3	2.0	2	3	B.Y.
465	P1h19	Sungai Umas Umas	S. Brantian	P.Km	2	2.0	2	3	G.
466	P1h20	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	4	G.
467	P1h21	Sungai Umas Umas	S. Brantian	P.Km	3	12.0	4	2	B.
468	P1h22	Sungai Umas Umas	S. Mawing	P.Kl	1	1.5	3	3	Y.B.
469	P1h23	Sungai Umas Umas	S. Mawing	P.Kl	1	6.0	3	2	B.
470	P1h24	Sungai Umas Umas	S. Gita	P.Km	1	1.0	2	3	B.Y.
471	P1h25	Sungai Umas Umas	S. Gita	P.Km	1	2.0	2	3	B.Y.
472	P1h26	Sungai Umas Umas	S. Gita	P.Km	1	1.0	2	3	B.Y.
473	P1h27	Sungai Umas Umas	S. Gita	P.Km	1	3.0	2	3	B.G.
474	P1h28	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
475	P1h29	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	3	2	B.
476	P1h30	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	2	3	B.
477	P1h31	Sungai Umas Umas	S. Mawing	P.Kl	2	5.0	4	3	G.Y.
478	P1h32	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.0	2	3	B.Y.
479	P1h33	Sungai Umas Umas	S. Sirad Besar	P.Km	1	2.0	2	3	B.Y.
480	P1h34	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.0	2	3	B.Y.
481	P1h35	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.5	2	3	B.Y.
482	P1h36	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.5	2	3	B.Y.
483	P1h37	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.0	2	3	B.Y.
484	P1h38	Sungai Umas Umas	S. Sirad Besar	P.Km	1	1.0	2	3	B.Y.
485	P1h39	Sungai Umas Umas	S. Sirad Besar	P.Km	2	3.0	2	3	B.Y.
486	P1h40	Sungai Umas Umas	S. Brantian	P.Km	2	2.0	3	2	B.G.
487	P1h41	Sungai Umas Umas	S. Brantian	P.Km	1	3.5	2	2	B.G.
488	P1h42	Sungai Umas Umas	S. Mawing	P.Kl	1	2.0	2	3	B.
489	P1h43	Sungai Umas Umas	S. Mawing	P.Km	1	1.0	2	2	Y.B.
490	P1h44	Sungai Umas Umas	S. Mawing	P.Km	1	1.5	3	2	L.B.
491	P1h45	Sungai Umas Umas	S. Mawing	P.Km	1	1.5	3	1	L.B.
492	P1h46	Sungai Umas Umas	S. Brantian	P.Km	2	3.0	2	2	B.
493	P1h47	Sungai Umas Umas	S. Brantian	P.Km	2	7.0	3	2	B.
494	P1h48	Sungai Umas Umas	S. Brantian	P.Km	4	20.0	4	3	G.
495	P1h49	Sungai Umas Umas	S. Brantian	P.Km	1	3.0	4	2	G.B.
496	P1h50	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	3	3	B.G.
497	P1h51	Sungai Umas Umas	S. Mawing	P.Kl	2	3.0	2	3	B.
498	P1h52	Sungai Umas Umas	S. Brantian	P.Km	1	3.0	2	3	B.Y.
499	P1h53	Sungai Umas Umas	S. Serapi	P.Km	1	1.0	2	2	B.Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
447	P1h01	Sungai Tiagan	S. Mawing	P.Kl	1	2.0	2	1	G.
448	P1h02	Sungai Umas Umas	S. Geminchau	P.Km	1	1.0	2	3	D.G.
449	P1h03	Sungai Umas Umas	S. Serapi	P.Km	1	2.5	2	3	B.Y.
450	P1h04	Sungai Umas Umas	S. Serapi	P.Km	1	0.5	2	3	B.Y.
451	P1h05	Sungai Umas Umas	S. Serapi	P.Km	1	0.5	1	3	B.Y.
452	P1h06	Sungai Umas Umas	S. Serapi	P.Km	2	4.0	2	3	B.Y.
453	P1h07	Sungai Umas Umas	S. Serapi	P.Km	1	0.5	1	3	B.Y.
454	P1h08	Sungai Umas Umas	S. Serapi	P.Km	1	1.5	1	3	B.Y.
455	P1h09	Sungai Umas Umas	S. Serapi	P.Km	2	4.0	2	3	B.Y.
456	P1h10	Sungai Umas Umas	S. Brantian	P.Km	2	8.0	4	3	B.Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
537	PEg01	Sungai Umas Umas	S. Gumbal	gabbro	Ub	1	3.0	2	3	D.B.
538	PEg02	Sungai Umas Umas	S. Gumbal	gabbro	Ub	1	2.0	2	3	B.
539	PEg03	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	3	4	D.G.
540	PEg04	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	2.0	2	3	Y.B.
541	PEg05	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	2	3.0	3	3	Y.B.
542	PEg06	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.5	2	3	D.B.
543	PEg07	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	2.0	2	3	Y.B.
544	PEg08	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	2	2	B.
545	PEg09	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	2	2	B.
546	PEg10	Sungai Umas Umas	S. Muntai	---	P.Mn	2	6.0	3	2	B.
547	PEg11	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	2	3.0	3	2	Y.B.
548	PEg12	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	2	5.0	2	3	Y.B.
549	PEg13	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	2	6.0	3	3	Y.B.
550	PEg14	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	3	2	D.B.
551	PEg15	Sungai Umas Umas	S. Gumbal	gabbro	Ub	2	5.0	4	3	D.B.
552	PEg16	Sungai Umas Umas	S. Gumbal	gabbro	Ub	2	5.0	4	2	D.B.
553	PEg17	Sungai Umas Umas	S. Gumbal	gabbro	Ub	1	2.0	3	1	Y.B.
554	PEg18	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	4	1	D.B.
555	PEg19	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	3	2	B.
556	PEg20	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	3	3.0	4	2	D.B.
557	PEg21	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	3	10.0	3	2	D.B.
558	PEg22	Sungai Umas Umas	S. Muntai	---	P.Mn	2	5.0	3	3	L.B.
559	PEg23	Sungai Umas Umas	S. Muntai	---	P.Mn	1	3.0	2	3	L.B.
560	PEg24	Sungai Umas Umas	S. Muntai	---	P.Mn	2	6.0	3	3	L.B.
561	PEg25	Sungai Umas Umas	S. Muntai	---	P.Mn	1	4.0	3	3	L.B.
562	PEg26	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	3	3	L.G.
563	PEg27	Sungai Umas Umas	S. Muntai	---	P.Mn	1	1.5	2	4	B.
564	PEg28	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	1	3.0	2	3	L.B.
565	PEg29	Sungai Umas Umas	S. Muntai	---	P.Mn	2	6.0	3	3	G.B.
566	PEg30	Sungai Umas Umas	S. Muntai	---	P.Mn	2	4.0	2	3	L.B.
567	PEg31	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	3	3	L.B.
568	PEg32	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	3	2	L.B.
569	PEg33	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.5	2	3	L.B.
570	PEg34	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	2	4	G.B.
571	PEg35	Sungai Umas Umas	S. Muntai	---	P.Mn	2	4.0	2	4	L.B.
572	PEg36	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	3	3	L.B.
573	PEg37	Sungai Umas Umas	S. Muntai	---	P.Mn	1	5.0	4	3	L.B.
574	PEg38	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	3	4.0	3	3	L.B.
575	PEg39	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	1	2.0	2	2	L.B.
576	PEg40	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	2	5.0	2	2	L.B.
577	PEg41	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	1	2.0	3	2	L.B.
578	PEg42	Sungai Umas Umas	S. Muntai	sandstone	P.Mn	2	4.0	3	3	L.B.
579	PEg43	Sungai Umas Umas	S. Muntai	---	P.Mn	2	4.0	2	3	L.B.
580	PEg44	Sungai Umas Umas	S. Muntai	---	P.Mn	1	3.0	2	2	L.B.
581	PEg45	Sungai Umas Umas	S. Muntai	---	P.Mn	1	4.0	3	3	L.B.
582	PEg46	Sungai Umas Umas	S. Bang	sandstone	P.Mn	1	1.0	3	3	D.B.
583	PEg47	Sungai Umas Umas	S. Bang	sandstone	P.Mn	1	3.0	3	3	D.B.
584	PEg48	Sungai Umas Umas	S. Bang	---	P.Mn	1	2.0	2	3	L.G.
585	PEg49	Sungai Umas Umas	S. Bang	---	P.Mn	1	2.0	2	3	L.B.
586	PEg50	Sungai Umas Umas	S. Bang	sandstone	P.Mn	1	4.0	3	3	L.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
500	PDJ01	Sungai Umas Umas	S. Brantian	---	P.Mn	1	1.0	3	3	Y.B.
501	PDJ02	Sungai Umas Umas	---	---	P.Mn	1	4.0	0	3	B.
502	PDJ03	Sungai Umas Umas	---	---	P.Mn	1	4.0	2	3	G.
503	PDJ04	Sungai Umas Umas	S. Mawing	---	P.Mn	1	3.0	1	4	G.B.
504	PDJ05	Sungai Umas Umas	S. Mawing	---	P.Mn	1	1.5	3	2	L.B.
505	PDJ06	Sungai Umas Umas	S. Mawing	---	P.Mn	1	1.5	2	3	G.B.
506	PDJ07	Sungai Umas Umas	S. Mawing	---	P.Mn	1	2.0	3	1	G.
507	PDJ08	Sungai Umas Umas	S. Mawing	---	P.Mn	1	1.0	2	3	B.
508	PDJ09	Sungai Umas Umas	S. Brantian	---	P.Mn	1	3.0	2	3	B.
509	PDJ10	Sungai Umas Umas	S. Brantian	---	P.Mn	1	3.0	2	3	B.
510	PDJ11	Sungai Umas Umas	S. Brantian	---	P.Mn	1	1.0	2	2	D.B.
511	PDJ12	Sungai Umas Umas	S. Brantian	---	N.Ko	2	5.0	4	3	Y.B.
512	PDJ13	Sungai Umas Umas	S. Brantian	---	P.Mn	2	3.0	4	3	Y.B.
513	PDJ14	Sungai Umas Umas	S. Brantian	---	P.Mn	1	2.0	3	1	B.
514	PDJ15	Sungai Umas Umas	S. Brantian	---	P.Mn	1	2.0	2	1	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
515	PEF01	Sungai Umas Umas	S. Segana	sandstone	P.Mn	1	3.0	3	3	L.B.
516	PEF02	Sungai Umas Umas	S. Beeston	sandstone	P.Mn	1	1.5	3	3	L.B.
517	PEF03	Sungai Umas Umas	S. Beeston	---	P.Mn	3	2.0	2	3	L.B.
518	PEF04	Sungai Umas Umas	S. Segana	---	P.Mn	3	5.0	2	4	L.B.
519	PEF05	Sungai Umas Umas	S. Beeston	---	P.Mn	2	4.0	2	4	L.B.
520	PEF06	Sungai Umas Umas	S. Beeston	---	P.Mn	1	3.0	3	3	L.B.
521	PEF07	Sungai Umas Umas	S. Gumbal	---	P.Mn	1	2.0	4	2	D.B.
522	PEF08	Sungai Umas Umas	S. Gumbal	---	P.Mn	1	4.0	4	3	D.B.
523	PEF09	Sungai Umas Umas	S. Gumbal	---	P.Mn	1	1.5	2	3	Y.B.
524	PEF10	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	2	1	Y.B.
525	PEF11	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	2	4.0	3	1	Y.B.
526	PEF12	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	1.0	3	3	Y.B.
527	PEF13	Sungai Umas Umas	S. Gumbal	sandstone	P.Mn	1	2.0	3	3	Y.B.
528	PEF14	Sungai Umas Umas	S. Muntai	---	P.Mn	1	3.0	4	2	L.B.
529	PEF15	Sungai Umas Umas	S. Muntai	---	P.Mn	1	4.0	3	2	Y.B.
530	PEF16	Sungai Umas Umas	S. Segana	---	P.Mn	2	3.0	3	3	B.
531	PEF17	Sungai Umas Umas	S. Segana	sandstone	P.Mn	1	3.0	3	2	L.B.
532	PEF18	Sungai Umas Umas	S. Segana	---	P.Mn	2	3.0	3	2	L.B.
533	PEF19	Sungai Umas Umas	S. Segana	sandstone	P.Mn	1	4.0	3	2	L.B.
534	PEF20	Sungai Umas Umas	S. Segana	sandstone	P.Mn	1	2.0	2	3	L.B.
535	PEF21	Sungai Umas Umas	S. Muntai	---	P.Mn	1	2.0	3	3	B.
536	PEF22	Sungai Umas Umas	S. Gumbal	---	P.Mn	1	1.0	3	3	Y.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
587	PE651	Sungai Umas Umas	S. Muntai	P.Km	1	0.5	3	3	B.Y.
588	PE652	Sungai Umas Umas	S. Muntai	P.Km	1	1.0	3	3	B.Y.
589	PE653	Sungai Umas Umas	S. Muntai	P.Km	1	0.5	3	3	B.Y.
590	PE654	Sungai Umas Umas	S. Muntai	P.Km	2	4.0	3	3	B.Y.
591	PE655	Sungai Umas Umas	S. Muntai	P.Km	1	1.0	3	3	B.Y.
592	PE656	Sungai Umas Umas	S. Muntai	P.Km	1	3.0	4	3	Y.B.
593	PE657	Sungai Umas Umas	S. Muntai	P.Km	1	4.0	3	3	Y.B.
594	PE658	Sungai Umas Umas	S. Muntai	P.Km	1	2.0	4	3	Y.B.
595	PE659	Sungai Umas Umas	S. Muntai	P.Km	1	2.0	4	2	L.B.
596	PE660	Sungai Umas Umas	S. Muntai	P.Km	1	3.0	3	2	L.B.
597	PE661	Sungai Umas Umas	S. Muntai	P.Km	1	2.0	2	3	L.B.
598	PE662	Sungai Umas Umas	S. Gambal	P.Km	1	1.0	4	3	D.B.
599	PE663	Sungai Umas Umas	S. Gambal	P.Km	1	1.0	2	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
630	PE831	Sungai Umas Umas	S. Umas Umas	P.Km	2	4.0	4	2	B.
631	PE832	Sungai Umas Umas	S. Umas Umas	P.Km	2	5.0	2	3	B.
632	PE833	Sungai Umas Umas	S. Umas Umas	P.Km	2	2.0	3	3	B.
633	PE834	Sungai Umas Umas	S. Umas Umas	P.Km	1	4.0	3	3	B.
634	PE835	Sungai Umas Umas	S. Umas Umas	P.Km	1	1.0	2	3	G.
635	PE836	Sungai Umas Umas	S. Umas Umas	P.Km	3	2.0	4	3	B.
636	PE837	Sungai Umas Umas	S. Umas Umas	P.Km	3	3.0	4	2	B.
637	PE838	Sungai Umas Umas	S. Umas Umas	P.Km	1	1.0	3	3	B.
638	PE839	Sungai Umas Umas	S. Umas Umas	P.Km	1	3.0	4	3	B.
639	PE840	Sungai Umas Umas	S. Umas Umas	P.Km	1	2.0	2	3	B.
640	PE841	Sungai Umas Umas	S. Umas Umas	P.Km	1	2.0	4	2	B.
641	PE842	Sungai Umas Umas	S. Umas Umas	P.Km	2	4.0	4	1	B.
642	PE843	Sungai Umas Umas	S. Umas Umas	P.Km	2	3.0	4	1	B.
643	PE844	Sungai Umas Umas	S. Sibuku	P.Km	2	3.5	3	2	L.B.
644	PE845	Sungai Umas Umas	S. Sibuku	P.Km	1	3.0	3	2	L.B.
645	PE846	Sungai Umas Umas	S. Sibuku	P.Km	1	1.5	3	2	Y.B.
646	PE847	Sungai Umas Umas	S. Sibuku	P.Km	1	1.5	2	2	Y.B.
647	PE848	Sungai Umas Umas	S. Sibuku	P.Km	1	1.0	3	3	B.
648	PE849	Sungai Umas Umas	S. Umas Umas	P.Km	1	1.0	4	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
600	PE801	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
601	PE802	Sungai Umas Umas	S. Brantian	P.Km	1	1.5	2	3	B.Y.
602	PE803	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	2	3	B.Y.
603	PE804	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
604	PE805	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
605	PE806	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	2	3	B.Y.
606	PE807	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	2	3	B.Y.
607	PE808	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	2	3	B.Y.
608	PE809	Sungai Umas Umas	S. Brantian	P.Km	1	0.5	3	3	B.Y.
609	PE810	Sungai Umas Umas	S. Brantian	P.Km	1	3.0	3	3	B.Y.
610	PE811	Sungai Umas Umas	S. Brantian	P.Km	1	0.5	0	3	B.Y.
611	PE812	Sungai Umas Umas	S. Sibuku	P.Km	1	2.0	2	3	L.B.
612	PE813	Sungai Umas Umas	S. Sibuku	P.Km	1	3.0	3	2	G.B.
613	PE814	Sungai Umas Umas	S. Brantian	P.Km	1	1.5	1	3	L.B.
614	PE815	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	3	4	Y.B.
615	PE816	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	2	3	B.Y.
616	PE817	Sungai Umas Umas	S. Brantian	P.Km	3	6.0	4	3	B.Y.
617	PE818	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.G.
618	PE819	Sungai Umas Umas	S. Toe	P.Km	1	1.0	0	3	B.Y.
619	PE820	Sungai Umas Umas	S. Brantian	P.Km	2	6.0	4	3	B.G.
620	PE821	Sungai Umas Umas	S. Brantian	P.Km	2	5.0	3	3	B.G.
621	PE822	Sungai Umas Umas	S. Brantian	P.Km	1	4.0	3	3	B.Y.
622	PE823	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
623	PE824	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
624	PE825	Sungai Umas Umas	S. Brantian	P.Km	1	1.0	2	3	B.Y.
625	PE826	Sungai Umas Umas	S. Brantian	P.Km	1	1.5	2	3	B.Y.
626	PE827	Sungai Umas Umas	S. Umas Umas	P.Km	1	2.0	4	3	B.
627	PE828	Sungai Umas Umas	S. Umas Umas	P.Km	1	3.0	1	2	G.
628	PE829	Sungai Umas Umas	S. Umas Umas	P.Km	1	1.0	4	3	B.
629	PE830	Sungai Umas Umas	S. Umas Umas	P.Km	1	2.0	3	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
649	PE101	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	3	2	B.
650	PE102	Sungai Umas Umas	---	P.Km	1	3.0	3	2	B.
651	PE103	Sungai Umas Umas	---	P.Km	2	2.0	3	2	B.
652	PE104	Sungai Umas Umas	S. Sibuku	P.Km	2	4.0	3	2	Y.B.
653	PE105	Sungai Umas Umas	S. Sibuku	P.Km	2	4.0	4	2	Y.B.
654	PE106	Sungai Umas Umas	S. Sibuku	P.Km	6	2.0	3	2	Y.B.
655	PE107	Sungai Umas Umas	S. Sibuku	P.Km	1	2.0	2	3	B.
656	PE108	Sungai Umas Umas	S. Brantian	P.Km	1	3.0	0	3	G.
657	PE109	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	3	3	B.
658	PE110	Sungai Umas Umas	S. Sibuku	P.Km	3	3.0	3	3	B.
659	PE111	Sungai Umas Umas	S. Sibuku	P.Km	1	3.0	3	3	B.
660	PE112	Sungai Umas Umas	---	P.Km	2	2.0	3	2	B.
661	PE113	Sungai Umas Umas	---	P.Km	1	4.0	4	3	B.
662	PE114	Sungai Umas Umas	---	P.Km	2	4.0	2	3	B.
663	PE115	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	4	2	B.
664	PE116	Sungai Umas Umas	---	P.Km	2	3.0	4	3	B.
665	PE117	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.
666	PE118	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.
667	PE119	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
649	PE101	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	3	2	B.
650	PE102	Sungai Umas Umas	---	P.Km	1	3.0	3	2	B.
651	PE103	Sungai Umas Umas	---	P.Km	2	2.0	3	2	B.
652	PE104	Sungai Umas Umas	S. Sibuku	P.Km	2	4.0	3	2	Y.B.
653	PE105	Sungai Umas Umas	S. Sibuku	P.Km	2	4.0	4	2	Y.B.
654	PE106	Sungai Umas Umas	S. Sibuku	P.Km	6	2.0	3	2	Y.B.
655	PE107	Sungai Umas Umas	S. Sibuku	P.Km	1	2.0	2	3	B.
656	PE108	Sungai Umas Umas	S. Brantian	P.Km	1	3.0	0	3	G.
657	PE109	Sungai Umas Umas	S. Brantian	P.Km	2	4.0	3	3	B.
658	PE110	Sungai Umas Umas	S. Sibuku	P.Km	3	3.0	3	3	B.
659	PE111	Sungai Umas Umas	S. Sibuku	P.Km	1	3.0	3	3	B.
660	PE112	Sungai Umas Umas	---	P.Km	2	2.0	3	2	B.
661	PE113	Sungai Umas Umas	---	P.Km	1	4.0	4	3	B.
662	PE114	Sungai Umas Umas	---	P.Km	2	4.0	2	3	B.
663	PE115	Sungai Umas Umas	S. Brantian	P.Km	1	2.0	4	2	B.
664	PE116	Sungai Umas Umas	---	P.Km	2	3.0	4	3	B.
665	PE117	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.
666	PE118	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.
667	PE119	Sungai Umas Umas	---	P.Km	1	2.0	4	3	B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
565	PF01	Sungai Unas Unas	Unas Unas	P.Km	2	3.0	3	2	B.
566	PF02	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	2	B.
567	PF03	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	2	B.
571	PF04	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	3	B.
572	PF05	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	B.
573	PF06	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	3	B.
574	PF07	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	3	B.
575	PF08	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	3	B.
576	PF09	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	0	2	G.
577	PF10	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	0	2	G.
578	PF11	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	1	3	G.
579	PF12	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	2	3	B.
580	PF13	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	1	2	B.
581	PF14	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	0	2	B.
582	PF15	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	0	2	B.
583	PF16	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	0	2	B.
584	PF17	Sungai Unas Unas	Unas Unas	P.Km	1	7.0	1	3	B.
585	PF18	Sungai Unas Unas	Unas Unas	P.Km	2	2.0	0	3	B.
586	PF19	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	0	3	B.
587	PF20	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	0	2	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
718	PF21	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	1	1	B.
719	PF22	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	1	1	B.
720	PF23	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	1	1	B.
721	PF24	Sungai Unas Unas	Unas Unas	P.Km	2	4.0	3	1	P.B.
722	PF25	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	1	B.
723	PF26	Sungai Unas Unas	Unas Unas	P.Km	3	3.0	4	2	B.
724	PF27	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	2	3	B.
725	PF28	Sungai Unas Unas	Unas Unas	P.Km	4	15.0	4	2	B.
726	PF29	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	2	B.
727	PF30	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	2	D.B.
728	PF31	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	G.
729	PF32	Sungai Unas Unas	Unas Unas	P.Km	4	15.0	4	1	G.D.
730	PF33	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	4	1	G.B.
731	PF34	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	3	B.
732	PF35	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
733	PF36	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
734	PF37	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	3	B.
735	PF38	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	3	B.
736	PF39	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	3	3	B.
737	PF40	Sungai Unas Unas	Unas Unas	KPCS	2	2.0	3	2	G.
738	PF41	Sungai Unas Unas	Unas Unas	P.Km	1	1.5	2	2	B.
739	PF42	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	4	1	B.
740	PF43	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	4	3	P.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
741	PF44	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	2	B.
742	PF45	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	2	B.
743	PF46	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	2	2	B.
744	PF47	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	2	B.
745	PF48	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	2	B.
746	PF49	Sungai Unas Unas	Unas Unas	P.Km	3	8.0	3	2	B.
747	PF50	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	2	G.
748	PF51	Sungai Unas Unas	Unas Unas	P.Km	2	5.0	1	2	B.
749	PF52	Sungai Unas Unas	Unas Unas	P.Km	1	8.0	3	1	B.
750	PF53	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	3	1	B.
751	PF54	Sungai Unas Unas	Unas Unas	P.Km	2	4.0	1	2	B.
752	PF55	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
753	PF56	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
754	PF57	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	2	2	B.
755	PF58	Sungai Unas Unas	Unas Unas	P.Km	2	3.0	2	2	B.
756	PF59	Sungai Unas Unas	Unas Unas	P.Km	2	4.0	2	2	B.
757	PF60	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	3	B.
758	PF61	Sungai Unas Unas	Unas Unas	P.Km	2	2.0	2	3	B.
759	PF62	Sungai Unas Unas	Unas Unas	P.Km	2	2.0	2	2	G.
760	PF63	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	3	2	B.

\*1: none (0), middle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
688	PF64	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	B.
689	PF65	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	3	2	B.
690	PF66	Sungai Unas Unas	Unas Unas	P.Km	1	1.5	3	2	B.
691	PF67	Sungai Unas Unas	Unas Unas	P.Km	2	3.0	3	4	G.
692	PF68	Sungai Unas Unas	Unas Unas	P.Km	2	8.0	1	3	G.
693	PF69	Sungai Unas Unas	Unas Unas	KPCS	1	0.5	2	2	G.
694	PF70	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	2	2	G.
695	PF71	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	G.
696	PF72	Sungai Unas Unas	Unas Unas	P.Km	2	3.0	2	2	G.
697	PF73	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	G.
698	PF74	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	G.
699	PF75	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	G.
700	PF76	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	3	3	G.
701	PF77	Sungai Unas Unas	Unas Unas	P.Km	3	12.0	0	3	G.
702	PF78	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	2	3	G.
703	PF79	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	2	3	G.
704	PF80	Sungai Unas Unas	Unas Unas	Ub	1	4.0	3	3	L.B.
705	PF81	Sungai Unas Unas	Unas Unas	Ub	1	3.0	3	3	L.B.
706	PF82	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	2	B.
707	PF83	Sungai Unas Unas	Unas Unas	P.Km	4	8.0	3	3	G.
708	PF84	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	2	3	G.
709	PF85	Sungai Unas Unas	Unas Unas	P.Km	4	10.0	2	3	G.
710	PF86	Sungai Unas Unas	Unas Unas	P.Km	1	1.0	3	3	G.
711	PF87	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	3	G.
712	PF88	Sungai Unas Unas	Unas Unas	P.Km	1	4.0	3	3	G.
713	PF89	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	2	2	B.
714	PF90	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
715	PF91	Sungai Unas Unas	Unas Unas	P.Km	1	3.0	2	2	B.
716	PF92	Sungai Unas Unas	Unas Unas	P.Km	1	2.0	3	3	B.
717	PF93	Sungai Unas Unas	Unas Unas	P.Km	2	4.0	3	3	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
751	PF121	Sungai Umas	S. Umas Umas	P. Km	4	3.0	2	3	1	B.
752	PF122	Sungai Umas	S. Umas Umas	P. Km	2	12.0	2	2	1	B.
753	PF123	Sungai Umas	S. Umas Umas	P. Km	2	2.0	2	2	2	D.B.
754	PF124	Sungai Umas	S. Umas Umas	P. Km	1	0.5	2	2	1	B.
755	PF125	Sungai Umas	S. Umas Umas	P. Km	2	2.0	2	2	2	B.
756	PF126	Sungai Umas	S. Umas Umas	P. Km	2	2.0	2	2	2	B.
757	PF127	Sungai Umas	S. Umas Umas	P. Km	1	1.0	2	2	2	B.
758	PF128	Sungai Umas	S. Umas Umas	P. Km	2	3.0	2	2	2	D.B.
759	PF129	Sungai Umas	S. Umas Umas	P. Km	1	4.0	2	2	2	B.
760	PF130	Sungai Umas	S. Umas Umas	P. Km	1	2.0	2	2	2	B.
771	PF131	Sungai Umas	S. Umas Umas	P. Km	2	4.0	1	2	2	G.
772	PF132	Sungai Umas	S. Umas Umas	P. Km	3	8.0	2	2	2	G.
773	PF133	Sungai Umas	S. Umas Umas	P. Km	2	2.0	4	2	2	B.
774	PF134	Sungai Umas	S. Umas Umas	P. Km	3	9.0	3	2	2	B.
775	PF135	Sungai Umas	S. Umas Umas	P. Km	4	15.0	4	2	2	B.
776	PF136	Sungai Umas	S. Umas Umas	P. Km	3	2.0	3	2	2	B.
777	PF137	Sungai Umas	S. Umas Umas	P. Km	1	1.0	3	2	2	B.
778	PF138	Sungai Umas	S. Umas Umas	P. Km	1	3.0	4	2	2	D.B.
779	PF139	Sungai Umas	S. Umas Umas	P. Km	1	20.0	3	2	2	G.
780	PF140	Sungai Umas	S. Umas Umas	P. Km	1	2.5	3	2	2	B.
781	PF141	Sungai Umas	S. Umas Umas	P. Km	1	2.5	3	2	2	B.
782	PF142	Sungai Umas	S. Umas Umas	P. Km	1	4.0	1	4	2	G.
783	PF143	Sungai Umas	S. Umas Umas	P. Km	1	2.0	4	2	2	B.
784	PF144	Sungai Umas	S. Umas Umas	P. Km	2	4.5	3	2	2	B.G.
785	PF145	Sungai Umas	S. Umas Umas	P. Km	2	2.0	3	2	2	B.
786	PF146	Sungai Umas	S. Umas Umas	P. Km	1	2.0	3	2	2	B.
787	PF147	Sungai Umas	S. Umas Umas	P. Km	1	7.0	4	2	2	D.B.
788	PF148	Sungai Umas	S. Umas Umas	P. Km	1	4.0	4	2	2	B.
789	PF149	Sungai Umas	S. Umas Umas	P. Km	1	2.0	4	2	2	B.
790	PF150	Sungai Umas	S. Umas Umas	P. Km	1	1.0	3	2	2	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
801	PF101	Sungai Umas	S. Umas Umas	P. Km	1	2.0	3	2	2	G.
792	PF102	Sungai Umas	S. Umas Umas	P. Km	1	3.0	4	2	2	B.
793	PF103	Sungai Umas	S. Umas Umas	P. Km	2	5.0	4	2	2	D.B.
794	PF104	Sungai Umas	S. Umas Umas	P. Km	2	16.0	4	1	2	G.
795	PF105	Sungai Umas	S. Umas Umas	P. Km	4	3.0	3	2	2	B.G.
796	PF106	Sungai Umas	S. Umas Umas	P. Km	1	5.0	4	2	2	B.
797	PF107	Sungai Umas	S. Umas Umas	P. Km	1	2.0	3	1	1	B.
798	PF108	Sungai Umas	S. Umas Umas	P. Km	2	4.0	1	1	1	B.
799	PF109	Sungai Umas	S. Umas Umas	P. Km	1	2.0	3	1	1	B.
800	PF110	Sungai Umas	S. Umas Umas	P. Km	1	3.0	1	1	1	B.
801	PF111	Sungai Umas	S. Umas Umas	P. Km	1	1.0	2	2	1	D.B.
802	PF112	Sungai Umas	S. Umas Umas	P. Km	1	1.0	2	2	1	B.
803	PF113	Sungai Umas	S. Umas Umas	P. Km	1	1.0	3	2	1	D.B.
804	PF114	Sungai Umas	S. Umas Umas	P. Km	1	2.5	1	2	1	B.
805	PF115	Sungai Umas	S. Umas Umas	P. Km	1	2.0	1	2	1	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
806	PG101	Sungai Tingkayu	S. Tingkayu	P. Km	2	3.5	3	3	1	G.B.
807	PG102	Sungai Tingkayu	S. Tingkayu	P. Km	1	2.0	3	3	1	G.B.
808	PG103	Sungai Tingkayu	S. Tingkayu	P. Km	1	1.5	2	2	2	G.B.
809	PG104	Sungai Tingkayu	S. Tingkayu	P. Km	1	1.5	2	2	2	G.B.
810	PG105	Sungai Tingkayu	S. Tingkayu	P. Km	1	1.0	3	2	2	Y.B.
811	PG106	Sungai Tingkayu	S. Tingkayu	P. Km	2	5.0	3	1	1	G.B.
812	PG107	Sungai Tingkayu	S. Tingkayu	P. Km	2	5.0	3	1	1	G.B.
813	PG108	Sungai Tingkayu	S. Umas Umas	P. Km	2	2.0	2	2	2	G.B.
814	PG109	Sungai Tingkayu	S. Umas Umas	P. Km	1	2.0	1	2	2	G.B.
815	PG110	Sungai Tingkayu	S. Tingkayu	P. Km	1	7.0	2	2	2	G.B.
816	PG111	Sungai Tingkayu	S. Tingkayu	P. Km	3	4.5	3	1	1	G.B.
817	PG112	Sungai Tingkayu	S. Tingkayu	P. Km	1	2.0	2	2	2	Y.B.
818	PG113	Sungai Tingkayu	S. Tingkayu	P. Km	2	3.0	2	2	2	B.
819	PG114	Sungai Tingkayu	S. Tingkayu	Co	2	1.5	1	2	2	G.
820	PG115	Sungai Tingkayu	S. Tingkayu	Co	2	5.0	2	2	2	G.
821	PG116	Sungai Tingkayu	S. Tingkayu	Co	1	3.0	1	3	2	B.
822	PG117	Sungai Tingkayu	S. Tingkayu	P. Km	2	8.0	1	3	3	G.
823	PG118	Sungai Tingkayu	S. Tingkayu	P. Km	3	18.0	2	3	3	B.
824	PG119	Sungai Tingkayu	S. Tingkayu	Co	3	2.0	2	2	2	B.
825	PG120	Sungai Tingkayu	S. Tingkayu	P. Km	1	2.0	2	2	2	B.
826	PG121	Sungai Tingkayu	S. Tingkayu	P. Km	2	3.0	2	2	2	B.
827	PG122	Sungai Tingkayu	S. Tingkayu	P. Km	3	5.0	2	2	2	B.
828	PG123	Sungai Tingkayu	S. Tingkayu	P. Km	2	3.0	1	2	2	G.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
829	PG101	Sungai Tingkayu	S. Umas Umas	P. Km	1	1.5	2	1	1	B.
830	PG102	Sungai Tingkayu	S. Umas Umas	P. Km	1	2.5	3	1	1	B.
831	PG103	Sungai Tingkayu	S. Umas Umas	P. Km	2	3.0	3	1	1	B.
832	PG104	Sungai Tingkayu	S. Umas Umas	P. Km	1	1.5	2	1	1	B.
833	PG105	Sungai Tingkayu	S. Umas Umas	P. Km	3	4.5	3	1	1	B.
834	PG106	Sungai Tingkayu	S. Umas Umas	P. Km	1	2.5	3	1	1	G.
835	PG107	Sungai Tingkayu	S. Umas Umas	SPCS	1	2.0	3	2	1	B.G.
836	PG108	Sungai Tingkayu	S. Umas Umas	SPCS	2	4.0	3	1	1	B.G.
837	PG109	Sungai Tingkayu	S. Umas Umas	SPCS	2	4.0	4	2	1	B.G.
838	PG110	Sungai Tingkayu	S. Umas Umas	SPCS	1	1.5	2	2	2	B.G.
839	PG111	Sungai Tingkayu	S. Umas Umas	KPCS	2	3.0	2	2	2	L.G.
840	PG112	Sungai Tingkayu	S. Umas Umas	KPCS	2	4.0	2	2	1	G.
841	PG113	Sungai Tingkayu	S. Umas Umas	KPCS	2	3.5	2	2	1	G.
842	PG114	Sungai Tingkayu	S. Umas Umas	KPCS	1	1.5	2	2	1	G.
843	PG115	Sungai Tingkayu	S. Umas Umas	P. Km	2	2.0	2	2	1	B.
844	PG116	Sungai Tingkayu	S. Umas Umas	P. Km	2	3.0	3	1	1	B.
845	PG117	Sungai Tingkayu	S. Umas Umas	P. Km	1	1.5	2	2	3	B.
846	PG118	Sungai Tingkayu	S. Umas Umas	P. Km	1	2.5	4	1	1	Y.B.
847	PG119	Sungai Tingkayu	S. Umas Umas	P. Km	2	2.0	3	1	1	G.B.
848	PG120	Sungai Tingkayu	S. Umas Umas	P. Km	1	1.5	3	1	1	G.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow <sup>+</sup>	Flow Size <sup>+</sup>	Color
880	P0h16	Sungai Tingkayu	S. Merotai B.	slate	P.kn	1	1.0	3	3	Y.B.
891	P0h17	Sungai Tingkayu	S. Merotai B.	slate	P.kn	2	5.0	3	3	Y.B.
892	P0h18	Sungai Tingkayu	S. Merotai B.	slate	P.kn	2	6.0	3	2	D.B.
893	P0h19	Sungai Tingkayu	S. Merotai B.	tuff	P.kn	1	1.0	3	2	D.B.
894	P0h20	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	10.0	3	2	D.B.
895	P0h21	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.0	3	3	D.B.
896	P0h22	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.0	2	2	Y.B.
897	P0h23	Sungai Tingkayu	S. Merotai B.	sandstone	P.kn	1	2.0	3	3	Y.B.
898	P0h24	Sungai Tingkayu	S. Merotai B.	sandstone	P.kn	3	8.0	3	2	D.B.
899	P0h25	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	15.0	2	4	Y.B.
900	P0h26	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	2.5	3	2	Y.B.
901	P0h27	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	1.0	2	3	Y.B.
902	P0h28	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	2	3	B.
903	P0h29	Sungai Tingkayu	S. Merotai B.	—	P.kn	2	4.0	4	2	Y.B.
904	P0h30	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	20.0	2	3	D.B.
905	P0h31	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.5	2	3	D.B.
906	P0h32	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	2	8.0	2	2	Y.B.
907	P0h33	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	1.5	3	2	B.
908	P0h34	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	2	3	B.
909	P0h35	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	5.0	3	3	D.B.
910	P0h36	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	10.0	3	3	D.B.
911	P0h37	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	0.5	2	3	D.G.
912	P0h38	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	10.0	2	2	D.G.
913	P0h39	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	2	5.0	3	2	B.
914	P0h40	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.0	2	4	D.G.
915	P0h41	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	3	7.0	2	2	B.
916	P0h42	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.0	3	1	Y.B.
917	P0h43	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	1.5	3	2	D.B.
918	P0h44	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	3	15.0	2	3	Y.B.
919	P0h45	Sungai Tingkayu	S. Merotai B.	shale	P.kn	3	8.0	4	2	Y.B.
920	P0h46	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	3	6.0	3	2	B.G.
921	P0h47	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	0.5	3	3	D.B.
922	P0h48	Sungai Tingkayu	S. Merotai B.	shale	P.kn	2	2.0	3	1	B.
923	P0h49	Sungai Tingkayu	S. Merotai B.	shale	P.kn	2	5.0	3	2	B.
924	P0h50	Sungai Tingkayu	S. Merotai B.	shale	P.kn	1	1.0	3	2	D.B.
925	P0h51	Sungai Tingkayu	S. Merotai B.	shale	P.kn	1	1.5	2	1	D.B.
926	P0h52	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.5	2	1	D.B.
927	P0h53	Sungai Tingkayu	S. Merotai B.	shale	P.kn	1	0.5	2	3	D.B.
928	P0h54	Sungai Tingkayu	S. Merotai B.	shale	P.kn	1	1.5	2	2	D.B.
929	P0h55	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	2.0	1	3	D.B.
930	P0h56	Sungai Tingkayu	S. Merotai B.	shale	P.kn	1	1.0	2	2	D.B.
931	P0h57	Sungai Tingkayu	S. Merotai B.	sandstone	P.kn	4	15.0	4	3	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow <sup>+</sup>	Flow Size <sup>+</sup>	Color
849	P0g21	Sungai Tingkayu	S. Umas	sandstone	P.kn	1	1.5	3	3	G.B.
850	P0g22	Sungai Tingkayu	S. Umas	sandstone	P.kn	1	1.5	2	1	Y.B.
851	P0g23	Sungai Tingkayu	S. Binaang	sandstone	P.kn	1	1.0	1	2	Y.B.
852	P0g24	Sungai Tingkayu	S. Binaang	sandstone	P.kn	1	2.0	2	3	Y.B.
853	P0g25	Sungai Tingkayu	S. Binaang	sandstone	P.kn	1	4.0	3	3	Y.B.
854	P0g26	Sungai Tingkayu	S. Binaang	sandstone	P.kn	2	5.0	3	3	B.G.
855	P0g27	Sungai Tingkayu	S. Binaang	shale	KPCs	1	1.5	3	2	D.B.
856	P0g28	Sungai Tingkayu	S. Binaang	chert	KPCs	1	2.5	3	2	Y.B.
857	P0g29	Sungai Tingkayu	S. Binaang	shale	P.kn	1	2.0	2	2	Y.B.
858	P0g30	Sungai Tingkayu	S. Binaang	—	P.kn	1	1.0	2	2	Y.B.
859	P0g31	Sungai Tingkayu	S. Binaang	sandstone	P.kn	2	7.0	2	2	Y.B.
860	P0g32	Sungai Tingkayu	S. Binaang	sandstone	P.kn	1	1.0	2	2	Y.B.
861	P0g33	Sungai Tingkayu	S. Binaang	sandstone	P.kn	1	2.0	2	2	B.
862	P0g34	Sungai Tingkayu	S. Umas	limestone	P.kn	1	2.5	3	2	G.B.
863	P0g35	Sungai Tingkayu	S. Umas	—	P.kn	1	1.5	3	1	G.B.
864	P0g36	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	2	2	D.B.
865	P0g37	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	1.0	3	2	D.B.
866	P0g38	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	2.0	4	2	D.B.
867	P0g39	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	2.0	1	1	D.B.
868	P0g40	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	2	3.0	3	2	D.B.
869	P0g41	Sungai Tingkayu	S. Binaang	—	P.kn	1	0.5	1	1	Y.B.
870	P0g42	Sungai Tingkayu	S. Binaang	—	P.kn	1	1.5	2	2	Y.B.
871	P0g43	Sungai Tingkayu	S. Merotai B.	siltstone	P.kn	1	1.0	1	1	D.B.
872	P0g44	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	1.5	3	2	D.B.
873	P0g45	Sungai Tingkayu	S. Tingkayu	spillite	P.kn	1	1.5	2	2	G.B.
874	P0g46	Sungai Tingkayu	S. Tingkayu	sandstone	P.kn	1	2.0	1	3	G.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow <sup>+</sup>	Flow Size <sup>+</sup>	Color
875	P0h01	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	2	3	B.
876	P0h02	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	2	2	B.
877	P0h03	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	3.0	2	2	G.
878	P0h04	Sungai Tingkayu	S. Merotai B.	—	P.kn	2	3.0	2	2	G.
879	P0h05	Sungai Tingkayu	S. Merotai B.	—	P.kn	2	6.0	2	3	G.
880	P0h06	Sungai Tingkayu	S. Merotai B.	—	P.kn	2	2.0	2	2	G.
881	P0h07	Sungai Tingkayu	S. Merotai B.	—	P.kn	3	12.0	2	2	C.
882	P0h08	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	1	3	B.
883	P0h09	Sungai Tingkayu	S. Merotai B.	mud./silt.	P.kn	1	4.0	1	2	B.
884	P0h10	Sungai Tingkayu	S. Merotai B.	mud./silt.	P.kn	1	2.0	1	3	B.
885	P0h11	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	0.3	0	2	Y.B.
886	P0h12	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	5.0	3	3	D.B.
887	P0h13	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	2.0	3	1	D.B.
888	P0h14	Sungai Tingkayu	S. Merotai B.	—	P.kn	2	8.0	3	3	D.B.
889	P0h15	Sungai Tingkayu	S. Merotai B.	—	P.kn	1	0.5	3	1	Y.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
982	PGJ51	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	2.5	3	2	B.
983	PGJ52	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	2	2.0	3	2	B.
984	PGJ53	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	2.0	2	1	B.
985	PGJ54	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	3.0	2	1	B.
986	PGJ55	Tawau North	S. Merotai B.	---	I <sub>1</sub> fn	2	2.0	1	3	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
987	PKK01	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	1.0	3	3	B.
988	PKK02	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	4	10.0	1	4	B.
989	PKK03	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	5	12.0	3	1	B.G.
990	PKK04	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	4	7.0	3	1	B.G.
991	PKK05	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	4	14.0	2	2	B.
992	PKK06	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	2.0	2	2	B.
993	PKK07	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	1	1.0	3	1	B.G.
994	PKK08	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	3	10.0	3	1	B.G.
995	PKK09	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	3	8.0	1	1	B.G.
996	PKK10	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	3	6.0	1	3	B.G.
997	PKK11	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	3	5.0	1	3	B.G.
998	PKK12	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	2.0	1	3	B.G.
999	PKK13	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	1.5	4	3	B.G.
1000	PKK14	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	4.0	4	3	G.
1001	PKK15	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	4.0	4	2	G.
1002	PKK16	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	3.0	4	2	G.
1003	PKK17	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	4.0	4	1	G.
1004	PKK18	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.5	2	2	G.
1005	PKK19	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	1.0	3	3	G.
1006	PKK20	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	2.0	4	3	G.
1007	PKK21	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.9	2	2	B.
1008	PKK22	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.8	3	2	B.G.
1009	PKK23	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	2.0	3	2	G.
1010	PKK24	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	2.0	3	2	G.
1011	PKK25	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	4.0	3	3	G.
1012	PKK26	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	3.0	4	1	G.
1013	PKK27	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	1.0	4	2	B.G.
1014	PKK28	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	2.0	4	1	B.G.
1015	PKK29	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	1.0	3	2	G.
1016	PKK30	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	2.0	4	2	G.
1017	PKK31	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	5.0	2	2	G.
1018	PKK32	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	4.0	1	3	B.G.
1019	PKK33	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	2	4.0	1	3	B.G.
1020	PKK34	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.5	4	3	B.G.
1021	PKK35	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.5	3	2	B.G.
1022	PKK36	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	2.0	3	2	B.G.
1023	PKK37	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	1	0.5	3	2	B.G.
1024	PKK38	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.5	1	3	B.
1025	PKK39	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.7	2	2	B.
1026	PKK40	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.6	3	2	B.
1027	PKK41	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	1	0.7	1	3	L.B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
932	PGJ01	Sungai Tingkayu	S. Merotai B.	sandstone	P <sub>4</sub> M	1	2.0	0	2	G.B.
933	PGJ02	Sungai Tingkayu	---	slate	P <sub>4</sub> M	1	3.0	1	3	Y.B.
934	PGJ03	Sungai Tingkayu	---	slate	P <sub>4</sub> M	1	1.0	3	3	Y.B.
935	PGJ04	Sungai Tingkayu	---	---	P <sub>4</sub> M	2	1.0	2	2	G.B.
936	PGJ05	Sungai Tingkayu	S. Merotai B.	---	P <sub>4</sub> M	4	12.0	3	2	G.B.
937	PGJ06	Sungai Tingkayu	S. Merotai B.	---	P <sub>4</sub> M	4	7.0	3	2	G.B.
938	PGJ07	Sungai Tingkayu	S. Merotai B.	shale	P <sub>4</sub> M	1	2.0	3	3	D.B.
939	PGJ08	Sungai Tingkayu	S. Merotai B.	shale	P <sub>4</sub> M	1	1.0	2	3	D.B.
940	PGJ09	Sungai Tingkayu	S. Merotai B.	gabbro	I <sub>1</sub> fn	1	2.0	3	2	D.B.
941	PGJ10	Tawau North	S. Merotai B.	andesite	I <sub>1</sub> fn	2	4.0	2	1	B.G.
942	PGJ11	Tawau North	---	---	P <sub>4</sub> M	1	2.0	2	1	B.
943	PGJ12	Tawau North	---	---	P <sub>4</sub> M	2	2.0	2	1	B.
944	PGJ13	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	1	1.5	3	1	B.
945	PGJ14	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	0.7	2	3	Y.B.
946	PGJ15	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	2	1.0	2	3	B.
947	PGJ16	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	1.0	0	4	G.
948	PGJ17	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	20.0	2	3	Y.B.
949	PGJ18	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	4	0.5	2	3	Y.B.
950	PGJ19	Tawau North	S. Merotai B.	tuff	P <sub>4</sub> M	2	0.5	0	4	B.
951	PGJ20	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	3.0	2	3	B.
952	PGJ21	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	1.0	3	3	B.
953	PGJ22	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	4	10.0	4	3	B.
954	PGJ23	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	2.0	3	3	D.B.
955	PGJ24	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	2.0	2	3	D.B.
956	PGJ25	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	1	5.0	2	3	B.
957	PGJ26	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	3.0	2	2	B.
958	PGJ27	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	8.0	1	2	B.G.
959	PGJ28	Tawau North	S. Merotai B.	andesite	I <sub>1</sub> fn	2	2.0	2	2	B.G.
960	PGJ29	Tawau North	S. Merotai B.	serpentine	I <sub>1</sub> fn	2	2.0	2	2	B.G.
961	PGJ30	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	1	1.0	3	1	B.
962	PGJ31	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	3.0	1	2	B.
963	PGJ32	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	2.0	2	4	B.
964	PGJ33	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	1	2.0	2	4	B.
965	PGJ34	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	3	4.0	3	1	B.
966	PGJ35	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	1	0.5	1	2	B.
967	PGJ36	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	4	12.0	3	3	B.
968	PGJ37	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	1.0	3	2	B.
969	PGJ38	Tawau North	S. Merotai B.	sandstone	P <sub>4</sub> M	2	1.5	2	1	B.G.
970	PGJ39	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	4	17.0	3	1	Y.B.
971	PGJ40	Tawau North	S. Merotai B.	---	P <sub>4</sub> M	1	1.0	1	3	Y.B.
972	PGJ41	Tawau North	S. Merotai B.	tuff	P <sub>4</sub> M	1	0.3	1	4	D.B.
973	PGJ42	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	2.5	2	2	Y.B.
974	PGJ43	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	1.0	3	2	Y.B.
975	PGJ44	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	1	1.0	3	2	Y.B.
976	PGJ45	Tawau North	S. Merotai B.	---	Q <sub>2</sub>	4	10.0	3	2	Y.B.
977	PGJ46	Tawau North	S. Merotai K.	---	Q <sub>2</sub>	4	15.0	2	2	D.B.
978	PGJ47	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	1	2.5	2	3	D.B.
979	PGJ48	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	3	10.0	3	1	B.
980	PGJ49	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	3	1.0	1	3	B.
981	PGJ50	Tawau North	S. Merotai K.	---	I <sub>2</sub> Ba	3	7.0	1	3	B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)



Area: Semporna Area Grid: Phg

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow (l/s)	Flow Size	Color
1060	Phg01	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	2	4.0	3	2	G.B.
1061	Phg02	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	2	4.5	3	2	G.B.
1062	Phg03	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	3.0	3	1	G.B.
1063	Phg04	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	3.0	3	1	G.B.
1064	Phg05	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	3.0	3	1	G.B.
1065	Phg06	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	1.0	3	3	Y.B.
1066	Phg07	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	2.5	3	4	Y.B.
1067	Phg08	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	0.3	2	3	Y.B.
1068	Phg09	Sungai Tingkayu	S. Binaung	sandstone	P.km	2	2.0	3	2	Y.B.
1069	Phg10	Sungai Tingkayu	S. Binaung	sandstone	Q.	2	2.0	2	3	Y.B.
1070	Phg11	Sungai Tingkayu	S. Binaung	—	Q.	3	4.0	2	3	G.B.
1071	Phg12	Sungai Tingkayu	S. Binaung	—	P.km	3	2.0	2	3	Y.B.
1072	Phg13	Sungai Tingkayu	S. Binaung	—	Q.	3	6.0	3	3	Y.B.
1073	Phg14	Sungai Tingkayu	S. Binaung	—	Q.	2	2.0	2	3	Y.B.
1074	Phg15	Sungai Tingkayu	S. Binaung	—	Q.	3	7.0	2	3	G.B.
1075	Phg16	Sungai Tingkayu	S. Binaung	—	P.km	2	2.0	2	1	L.B.
1076	Phg17	Sungai Tingkayu	S. Binaung	—	P.km	1	5.0	2	1	L.B.
1077	Phg18	Sungai Tingkayu	S. Binaung	—	P.km	1	5.0	2	1	L.B.
1078	Phg19	Sungai Tingkayu	S. Binaung	—	P.km	3	15.0	2	3	L.B.
1079	Phg20	Sungai Tingkayu	S. Binaung	—	P.km	1	—	2	2	L.B.
1080	Phg21	Sungai Tingkayu	S. Binaung	—	P.km	1	2.0	1	1	L.B.
1081	Phg22	Sungai Tingkayu	S. Binaung	—	P.km	1	1.0	1	3	Y.B.
1082	Phg23	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	2.0	4	1	Y.B.
1083	Phg24	Sungai Tingkayu	S. Binaung	sandstone	P.km	2	6.0	3	2	Y.B.
1084	Phg25	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	0.5	2	2	Y.B.
1085	Phg26	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	0.5	2	2	D.B.
1086	Phg27	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	2.0	1	3	D.B.
1087	Phg28	Sungai Tingkayu	S. Binaung	sandstone	P.km	2	2.0	3	2	D.B.
1088	Phg29	Sungai Tingkayu	S. Binaung	sandstone	P.km	3	10.0	1	4	D.G.
1089	Phg30	Sungai Tingkayu	S. Binaung	—	P.km	1	0.5	2	4	D.G.
1090	Phg31	Sungai Tingkayu	S. Binaung	—	P.km	2	5.0	1	4	D.G.
1091	Phg32	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	1.5	1	3	Y.B.
1092	Phg33	Sungai Tingkayu	S. Binaung	—	P.km	1	1.0	1	4	Y.B.
1093	Phg34	Sungai Tingkayu	S. Binaung	sandstone	P.km	1	0.7	2	3	Y.B.
1094	Phg35	Sungai Tingkayu	S. Binaung	—	P.km	1	1.0	2	3	Y.B.
1095	Phg36	Sungai Tingkayu	S. Binaung	siltstone	P.km	1	2.5	2	4	D.B.
1096	Phg37	Sungai Tingkayu	S. Binaung	—	P.km	2	5.0	2	4	D.B.
1097	Phg38	Sungai Tingkayu	S. Binaung	—	P.km	3	15.0	3	2	Y.B.
1098	Phg39	Sungai Tingkayu	S. Binaung	—	P.km	1	1.5	2	2	Y.B.
1099	Phg40	Sungai Tingkayu	S. Binaung	—	P.km	1	1.5	1	3	D.B.
1100	Phg41	Sungai Tingkayu	S. Binaung	—	P.km	2	10.0	1	1	Y.B.
1101	Phg42	Sungai Tingkayu	S. Binaung	—	P.km	2	10.0	4	1	Y.B.
1102	Phg43	Sungai Tingkayu	S. Binaung	—	P.km	3	15.0	2	3	Y.B.
1103	Phg44	Sungai Tingkayu	S. Binaung	—	P.km	2	4.0	3	3	D.B.
1104	Phg45	Sungai Tingkayu	S. Binaung	—	P.km	1	1.5	2	2	Y.B.
1105	Phg46	Sungai Tingkayu	S. Binaung	—	P.km	2	2.0	2	1	L.B.
1106	Phg47	Sungai Tingkayu	S. Binaung	—	P.km	1	5.0	2	3	L.B.
1107	Phg48	Sungai Tingkayu	S. Kalumpang	siltstone	P.km	1	0.6	2	2	Y.Y.
1108	Phg49	Sungai Tingkayu	S. Kalumpang	—	P.km	1	2.0	3	2	Y.Y.
1109	Phg50	Sungai Tingkayu	S. Kalumpang	siltstone	P.km	1	1.0	2	2	Y.Y.
1110	Phg51	Sungai Tingkayu	S. Binaung	—	P.km	2	2.5	2	2	D.B.
1111	Phg52	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	2.5	2	2	G.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Semporna Area Grid: Pkn

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow (l/s)	Flow Size	Color
1028	Pkn01	Tawau North	S. Merotai K.	—	Q.	2	1.0	2	3	G.
1029	Pkn02	Tawau North	S. Merotai K.	—	Q.	2	1.0	4	2	G.
1030	Pkn03	Tawau North	S. Merotai K.	—	Q.	2	4.0	4	2	G.
1031	Pkn04	Tawau North	S. Merotai K.	—	Q.	2	6.0	4	2	G.
1032	Phf01	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	1.0	2	3	G.B.
1033	Phf02	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	2.0	2	3	B.
1034	Phf03	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	2.0	2	3	B.
1035	Phf04	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	20.0	1	3	B.
1036	Phf05	Sungai Tingkayu	S. Tingkayu	—	Ub	2	3.0	3	3	B.
1037	Phf06	Sungai Tingkayu	S. Tingkayu	—	Ub	1	2.0	2	2	B.
1038	Phf07	Sungai Tingkayu	S. Tingkayu	—	Ub	2	4.0	4	3	B.
1039	Phf08	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	10.0	3	3	B.
1040	Phf09	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	2.0	3	2	B.
1041	Phf10	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	2.0	3	2	B.
1042	Phf11	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	2.0	3	2	B.
1043	Phf12	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	7.0	1	2	D.B.
1044	Phf13	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	8.0	1	3	D.B.
1045	Phf14	Sungai Tingkayu	S. Tingkayu	vol. breccia	KFCs	1	1.5	3	1	B.
1046	Phf15	Sungai Tingkayu	S. Tingkayu	tuff breccia	KFCs	1	3.0	3	2	B.
1047	Phf16	Sungai Tingkayu	S. Tingkayu	tuff breccia	KFCs	1	3.0	3	2	L.B.
1048	Phf17	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	4.0	4	4	L.B.
1049	Phf18	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	5.0	3	2	G.B.
1050	Phf19	Sungai Tingkayu	S. Tingkayu	—	P.km	1	2.0	2	1	B.
1051	Phf20	Sungai Tingkayu	S. Tingkayu	sandstone	P.km	1	2.0	2	1	B.
1052	Phf21	Sungai Tingkayu	S. Tingkayu	vol. breccia	KFCs	1	4.0	3	2	B.
1053	Phf22	Sungai Tingkayu	S. Tingkayu	tuff breccia	KFCs	1	2.0	3	2	Y.B.
1054	Phf23	Sungai Tingkayu	S. Tingkayu	tuff	KFCs	1	1.0	3	2	L.B.
1055	Phf24	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	2.0	3	1	L.B.
1056	Phf25	Sungai Tingkayu	S. Tingkayu	—	KFCs	2	2.0	3	2	B.
1057	Phf26	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	2.0	2	3	B.
1058	Phf27	Sungai Tingkayu	S. Tingkayu	—	KFCs	1	2.0	2	3	B.
1059	Phf28	Sungai Tingkayu	S. Tingkayu	—	Ub	1	2.0	2	3	G.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
1162	PHJ01	Sungai Tingkayu	S. Merotai B.	conglomerate	P.Mn	1	1.5	3	2	B. D.B.
1163	PHJ02	Sungai Tingkayu	S. Merotai B.	conglomerate	P.Mn	2	2.0	2	1	D. B.
1164	PHJ03	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	2	2	D. B.
1165	PHJ04	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	2	2	D. B.
1166	PHJ05	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	2	2	D. B.
1167	PHJ06	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	2	2	D. B.
1168	PHJ07	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	2	2	D. B.
1169	PHJ08	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	2	4.0	1	2	D. B.
1170	PHJ09	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	2	4.0	1	2	D. B.
1171	PHJ10	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	4	2	Y. B.
1172	PHJ11	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.0	4	3	D. B.
1173	PHJ12	Sungai Tingkayu	S. Merotai B.	andesite	I.An	1	1.5	4	2	B.
1174	PHJ13	Sungai Tingkayu	S. Merotai B.	andesite	I.An	2	5.0	3	1	B.
1175	PHJ14	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	3.0	1	3	Y. B.
1176	PHJ15	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	0.5	1	0	Y. B.
1177	PHJ16	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	1.0	2	4	D. B.
1178	PHJ17	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	1.0	2	4	D. B.
1179	PHJ18	Tawau North	S. Merotai B.	conglomerate	P.Mn	3	6.0	4	1	Y. B.
1180	PHJ19	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	3.0	3	3	Y. B.
1181	PHJ20	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	3.0	4	1	Y. B.
1182	PHJ21	Tawau North	S. Merotai B.	tfc. silt.	P.Mn	2	7.0	1	2	Y. B.
1183	PHJ22	Tawau North	S. Merotai B.	tfc. silt.	P.Mn	2	5.0	2	2	Y. B.
1184	PHJ23	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	7.0	1	2	Y. B.
1185	PHJ24	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	2.0	3	1	Y. B.
1186	PHJ25	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	3.0	3	2	Y. B.
1187	PHJ26	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	0.3	1	2	Y. B.
1188	PHJ27	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	5.0	2	2	Y. B.
1189	PHJ28	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	2.0	3	3	Y. B.
1190	PHJ29	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	2.0	3	3	Y. B.
1191	PHJ30	Tawau North	S. Merotai B.	altered and.	I.An	1	2.5	3	3	B.
1192	PHJ31	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	5.0	3	2	D. B.
1193	PHJ32	Tawau North	S. Merotai B.	siltstone	P.Mn	2	7.0	3	2	B.
1194	PHJ33	Tawau North	S. Merotai B.	siltstone	P.Mn	2	8.0	2	2	B.
1195	PHJ34	Tawau North	S. Merotai B.	andesite	I.An	1	1.0	2	3	B.
1196	PHJ35	Tawau North	S. Merotai B.	andesite	I.An	1	1.5	3	2	B.
1197	PHJ36	Tawau North	S. Merotai B.	andesite	I.An	2	5.0	3	2	D. B.
1198	PHJ37	Tawau North	S. Merotai B.	siltstone	I.An	1	0.5	2	2	D. B.
1199	PHJ38	Tawau North	S. Merotai B.	siltstone	I.An	1	1.0	2	2	B.
1200	PHJ39	Tawau North	S. Merotai B.	andesite	I.An	1	1.0	2	2	B.
1201	PHJ40	Tawau North	S. Merotai B.	andesite	I.An	1	0.6	3	2	B.
1202	PHJ41	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	0.5	2	4	D. B.
1203	PHJ42	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	1.0	1	3	Y. B.
1204	PHJ43	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	10.0	3	2	Y. B.
1205	PHJ44	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	1.0	2	3	D. B.
1206	PHJ45	Tawau North	S. Merotai B.	altered and.	I.An	1	4.0	2	2	Y. B.
1207	PHJ46	Tawau North	S. Merotai B.	altered and.	I.An	1	1.0	2	3	B.
1208	PHJ47	Tawau North	S. Merotai B.	altered and.	I.An	1	2.0	2	1	B.
1209	PHJ48	Tawau North	S. Merotai B.	altered and.	I.An	1	4.0	4	2	B.
1210	PHJ49	Tawau North	S. Merotai B.	conglomerate	P.Mn	2	5.0	4	2	B.
1211	PHJ50	Tawau North	S. Merotai B.	conglomerate	P.Mn	1	2.0	3	2	Y. B.
1212	PHJ51	Sungai Tingkayu	S. Langlein	conglomerate	P.Mn	1	2.0	4	1	D. B.
1213	PHJ52	Sungai Tingkayu	S. Langlein	conglomerate	P.Mn	1	3.0	4	1	D. B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
1112	PHB01	Sungai Tingkayu	S. Rimuang	---	P.Mn	1	1.0	1	2	D. B.
1113	PHB02	Sungai Tingkayu	S. Merotai B.	---	P.Mn	1	2.5	2	2	D. B.
1114	PHB03	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	2.0	2	2	D. B.
1115	PHB04	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	1.5	3	4	Y. B.
1116	PHB05	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	0.5	0	4	D. B.
1117	PHB06	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	2.0	1	4	Y. B.
1118	PHB07	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	2	2.0	3	2	Y. B.
1119	PHB08	Sungai Tingkayu	S. Merotai B.	basalt	I.An	1	1.0	2	1	D. B.
1120	PHB09	Sungai Tingkayu	S. Merotai B.	basalt	I.An	2	5.0	2	2	B.
1121	PHB10	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	1	0.5	2	4	D. B.
1122	PHB11	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	2	6.0	3	1	D. B.
1123	PHB12	Sungai Tingkayu	S. Merotai B.	siltstone	P.Mn	2	1.0	3	1	B.
1124	PHB13	Sungai Tingkayu	S. Merotai B.	lapilli tuff	P.Mn	2	4.0	3	3	D. B.
1125	PHB14	Sungai Tingkayu	S. Langlein	---	P.Mn	1	1.0	2	3	Y. B.
1126	PHB15	Sungai Tingkayu	S. Langlein	---	P.Mn	2	1.5	2	3	Y. B.
1127	PHB16	Sungai Tingkayu	S. Langlein	---	P.Mn	2	3.5	2	3	Y. B.
1128	PHB17	Sungai Tingkayu	S. Langlein	---	P.Mn	2	1.0	2	3	Y. B.
1129	PHB18	Sungai Tingkayu	S. Langlein	---	P.Mn	3	5.0	3	3	Y. B.
1130	PHB19	Sungai Tingkayu	S. Langlein	---	P.Mn	1	1.0	2	3	Y. B.
1131	PHB20	Sungai Tingkayu	S. Langlein	---	P.Mn	2	2.0	2	3	Y. B.
1132	PHB21	Sungai Tingkayu	S. Langlein	---	P.Mn	3	5.0	3	3	Y. B.
1133	PHB22	Sungai Tingkayu	S. Langlein	---	P.Mn	1	2.0	2	3	Y. B.
1134	PHB23	Sungai Tingkayu	S. Langlein	---	P.Mn	1	5.0	3	3	Y. B.
1135	PHB24	Sungai Tingkayu	S. Langlein	---	P.Mn	1	2.0	2	3	Y. B.
1136	PHB25	Sungai Tingkayu	S. Langlein	---	P.Mn	1	1.0	2	3	Y. B.
1137	PHB26	Sungai Tingkayu	S. Langlein	---	P.Mn	1	1.0	2	3	Y. B.
1138	PHB27	Sungai Tingkayu	S. Langlein	andesite	I.An	2	3.0	3	1	B.
1139	PHB28	Sungai Tingkayu	S. Langlein	andesite	I.An	1	2.0	4	2	D. B.
1140	PHB29	Sungai Tingkayu	S. Langlein	---	P.Mn	3	5.0	3	2	G. B.
1141	PHB30	Sungai Tingkayu	S. Langlein	---	P.Mn	2	7.0	4	2	B.
1142	PHB31	Sungai Tingkayu	S. Langlein	---	P.Mn	1	3.0	3	2	D. B.
1143	PHB32	Sungai Tingkayu	S. Langlein	---	P.Mn	2	4.0	3	2	D. B.
1144	PHB33	Sungai Tingkayu	S. Langlein	---	P.Mn	2	5.0	4	2	D. B.
1145	PHB34	Sungai Tingkayu	S. Langlein	---	P.Mn	1	3.0	4	2	B.
1146	PHB35	Sungai Tingkayu	S. Langlein	---	P.Mn	2	5.0	3	2	D. B.
1147	PHB36	Sungai Tingkayu	S. Langlein	andesite	I.An	2	5.0	4	2	D. B.
1148	PHB37	Sungai Tingkayu	S. Langlein	andesite	I.An	2	5.0	4	2	D. B.
1149	PHB38	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	6.0	3	3	Y. B.
1150	PHB39	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	5.0	3	3	Y. B.
1151	PHB40	Sungai Tingkayu	S. Kalumpang	---	P.Mn	3	5.0	3	3	Y. B.
1152	PHB41	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	5.0	3	3	Y. B.
1153	PHB42	Sungai Tingkayu	S. Kalumpang	---	P.Mn	1	1.0	2	3	Y. B.
1154	PHB43	Sungai Tingkayu	S. Kalumpang	---	P.Mn	1	5.0	3	3	B.
1155	PHB44	Sungai Tingkayu	S. Kalumpang	tuff	I.An	2	4.0	3	1	D. B.
1156	PHB45	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	1.5	3	3	Y. B.
1157	PHB46	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	4.0	3	3	Y. B.
1158	PHB47	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	1.0	3	3	Y. B.
1159	PHB48	Sungai Tingkayu	S. Kalumpang	---	P.Mn	2	5.0	3	3	Y. B.
1160	PHB49	Sungai Tingkayu	S. Merotai B.	---	P.Mn	1	1.0	2	3	Y. B.
1161	PHB50	Sungai Tingkayu	S. Kalumpang	siltstone	I.An	1	2.0	3	3	Y. B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow $\frac{1}{s}$	Flow Size $\frac{2}{s}$	Color
1267	PKK54	Tawau North	S. Merotai K.	—	Q <sub>1</sub>	1	0.8	3	2	D.B.
1268	PKK55	Tawau North	S. Merotai K.	—	Q <sub>1</sub>	1	0.5	3	1	D.B.
1269	PKK56	Tawau North	S. Merotai K.	basalt	L <sub>1</sub> Ba	1	1.5	4	1	D.B.
1270	PKK57	Tawau North	S. Merotai K.	—	L <sub>2</sub> Ba	1	1.0	3	1	D.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow $\frac{1}{s}$	Flow Size $\frac{2}{s}$	Color
1271	PKK01	Tawau North	S. Bombalai	—	Q <sub>1</sub>	1	3.0	4	2	G.
1272	PKK02	Tawau North	S. Bombalai	—	Q <sub>1</sub>	1	3.0	2	2	G.
1273	PKK03	Tawau North	S. Bombalai	—	Q <sub>1</sub>	1	3.0	4	2	G.
1274	PKK04	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	4	10.0	4	1	G.B.
1275	PKK05	Tawau North	S. Tawau	—	L <sub>2</sub> Ba	3	2.5	3	2	D.B.
1276	PKK06	Tawau North	S. Tawau	—	L <sub>2</sub> Ba	1	0.3	2	2	D.B.
1277	PKK07	Tawau North	S. Tawau	—	L <sub>2</sub> Ba	2	0.2	0	3	D.B.
1278	PKK08	Tawau North	S. Tawau	—	L <sub>2</sub> Ba	1	8.0	2	2	D.B.
1279	PKK09	Tawau North	S. Tawau	—	L <sub>2</sub> Ba	3	10.0	3	2	B.
1280	PKK10	Tawau North	S. Tawau	—	Q <sub>2</sub>	4	20.0	3	2	B.
1281	PKK11	Tawau North	S. Tawau	—	Q <sub>2</sub>	2	7.0	3	3	B.
1282	PKK12	Tawau North	S. Tawau	—	Q <sub>2</sub>	4	15.0	3	3	B.
1283	PKK13	Tawau North	S. Tawau	—	Q <sub>2</sub>	4	15.0	3	2	Y.B.
1284	PKK14	Tawau North	S. Tawau	—	Q <sub>2</sub>	4	10.0	4	3	G.B.
1285	PKK15	Tawau North	S. Tawau	—	Q <sub>2</sub>	4	12.0	4	4	G.B.
1286	PKK16	Tawau North	S. Tawau	—	Q <sub>2</sub>	2	2.0	1	3	Y.B.
1287	PKK17	Tawau North	S. Tajong	—	L <sub>1</sub> Ba	1	4.0	4	1	B.
1288	PKK18	Tawau North	S. Tajong	andesite	L <sub>1</sub> Ba	1	4.0	2	1	B.
1289	PKK19	Tawau North	S. Tajong	—	L <sub>2</sub> Ba	1	1.0	2	2	D.B.
1290	PKK20	Tawau North	S. Tajong	andesite	L <sub>2</sub> Ba	2	3.0	3	1	B.
1291	PKK21	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	10.0	4	1	G.B.
1292	PKK22	Tawau North	S. Tajong	—	Q <sub>2</sub>	1	3.0	3	3	B.
1293	PKK23	Tawau North	S. Inam	—	Q <sub>1</sub>	1	2.0	2	2	B.
1294	PKK24	Tawau North	S. Tajong	—	L <sub>1</sub> Ba	1	0.8	2	2	B.
1295	PKK25	Tawau North	S. Tajong	—	L <sub>2</sub> Ba	1	0.7	2	2	B.
1296	PKK26	Tawau North	S. Tajong	—	Q <sub>1</sub>	2	1.5	3	2	D.B.
1297	PKK27	Tawau North	S. Tajong	—	Q <sub>1</sub>	2	1.5	3	2	D.B.
1298	PKK28	Tawau North	S. Tajong	—	Q <sub>2</sub>	2	2.0	4	2	Black
1299	PKK29	Tawau North	S. Tajong	—	Q <sub>2</sub>	3	2.0	4	2	Black
1300	PKK30	Tawau North	S. Tanjung B.	—	Q <sub>1</sub>	1	3.0	2	3	Black
1301	PKK31	Tawau North	S. Kinabutan K.	—	Q <sub>1</sub>	1	0.5	2	3	Y.B.
1302	PKK32	Tawau North	S. Kinabutan K.	—	Q <sub>1</sub>	1	0.5	2	3	Y.B.
1303	PKK33	Tawau North	S. Kinabutan K.	—	Q <sub>1</sub>	1	2.0	2	2	D.G.
1304	PKK34	Tawau North	S. Kinabutan K.	—	Q <sub>2</sub>	2	2.5	2	4	G.
1305	PKK35	Tawau North	S. Kinabutan K.	—	Q <sub>2</sub>	2	2.0	3	4	Y.B.
1306	PKK36	Tawau North	S. Kinabutan K.	—	Q <sub>2</sub>	2	7.0	3	3	D.B.
1307	PKK37	Tawau North	S. Kinabutan K.	—	Q <sub>2</sub>	1	4.0	1	2	Y.B.
1308	PKK38	Tawau North	S. Kinabutan K.	andesite	L <sub>1</sub> Ba	1	2.0	2	2	Y.B.
1309	PKK39	Tawau North	S. Inam	andesite	L <sub>1</sub> Ba	1	1.0	4	2	Black
1310	PKK40	Tawau North	S. Inam	—	Q <sub>1</sub>	2	3.5	4	2	D.B.
1311	PKK41	Tawau North	S. Inam	—	Q <sub>1</sub>	1	3.0	3	2	D.B.
1312	PKK42	Tawau North	S. Inam	—	Q <sub>2</sub>	2	4.0	4	2	B.G.

\*1: none (0), middle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow $\frac{1}{s}$	Flow Size $\frac{2}{s}$	Color
1214	PKK01	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	1	3.0	3	2	D.B.
1215	PKK02	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	1.0	3	3	Y.B.
1216	PKK03	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	3.0	2	2	D.B.
1217	PKK04	Tawau North	S. Merotai K.	—	L <sub>1</sub> Ba	3	5.0	2	2	G.B.
1218	PKK05	Tawau North	S. Merotai K.	—	L <sub>2</sub> Ba	2	3.0	3	2	D.B.
1219	PKK06	Tawau North	S. Merotai K.	—	L <sub>2</sub> Ba	2	3.0	3	2	D.B.
1220	PKK07	Tawau North	S. Merotai K.	vol. breccia	L <sub>1</sub> An	1	3.0	3	2	B.
1221	PKK08	Tawau North	S. Merotai K.	andesite	L <sub>1</sub> An	1	5.0	3	2	B.
1222	PKK09	Tawau North	S. Merotai K.	andesite	L <sub>1</sub> An	1	2.5	4	4	Y.B.
1223	PKK10	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	1	2.0	5	1	Y.B.
1224	PKK11	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	1	3.0	3	1	Y.B.
1225	PKK12	Tawau North	S. Tawau	—	L <sub>1</sub> An	2	4.0	4	1	Y.B.
1226	PKK13	Tawau North	S. Tawau	—	L <sub>1</sub> An	1	3.0	4	1	Y.B.
1227	PKK14	Tawau North	S. Tawau	—	L <sub>1</sub> An	2	7.0	4	1	G.B.
1228	PKK15	Tawau North	S. Tawau	—	L <sub>1</sub> An	2	5.0	4	1	B.
1229	PKK16	Tawau North	S. Tawau	—	L <sub>1</sub> An	3	5.0	3	1	B.G.
1230	PKK17	Tawau North	S. Tawau	—	L <sub>1</sub> An	1	3.0	2	2	Y.B.
1231	PKK18	Tawau North	S. Tawau	—	L <sub>1</sub> An	1	2.0	2	2	Y.B.
1232	PKK19	Tawau North	S. Tawau	—	L <sub>1</sub> An	3	14.0	4	1	B.
1233	PKK20	Tawau North	S. Tawau	—	L <sub>1</sub> An	3	3.0	3	1	Y.B.
1234	PKK21	Tawau North	S. Tawau	—	L <sub>1</sub> An	3	10.0	4	1	B.
1235	PKK22	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	2.0	2	2	D.B.
1236	PKK23	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	1	3.0	2	2	B.
1237	PKK24	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	1	2.0	3	3	B.
1238	PKK25	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	2	5.0	2	2	D.B.
1239	PKK26	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	2	8.0	4	2	B.
1240	PKK27	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	2	5.0	3	2	Y.B.
1241	PKK28	Tawau North	S. Tawau	toesit-card.	L <sub>1</sub> An	1	4.0	3	2	D.B.
1242	PKK29	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	2	5.0	3	2	Y.B.
1243	PKK30	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	1.0	2	3	D.B.
1244	PKK31	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	2	6.0	2	2	D.B.
1245	PKK32	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	2	7.0	3	2	D.B.
1246	PKK33	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	2.0	4	1	B.G.
1247	PKK34	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	2.5	4	1	B.G.
1248	PKK35	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	4.0	3	3	B.G.
1249	PKK36	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	6.0	4	1	B.G.
1250	PKK37	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	3	6.0	4	1	B.G.
1251	PKK38	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	3	2.0	2	3	D.B.
1252	PKK39	Tawau North	S. Tawau	andesite	L <sub>1</sub> An	3	3.0	3	3	D.B.
1253	PKK40	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	3.0	2	2	Y.B.
1254	PKK41	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	4.5	3	2	B.
1255	PKK42	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	1	1.0	3	2	B.
1256	PKK43	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	1.5	2	2	B.
1257	PKK44	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	7.0	3	3	B.
1258	PKK45	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	0.5	1	3	B.
1259	PKK46	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	8.0	3	3	D.B.
1260	PKK47	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	2	6.0	3	3	D.B.
1261	PKK48	Tawau North	S. Tawau	—	L <sub>1</sub> Ba	4	15.0	2	2	D.B.
1262	PKK49	Tawau North	S. Tawau	—	L <sub>1</sub> An	3	16.0	5	3	D.B.
1263	PKK50	Tawau North	S. Tawau	andesite	L <sub>1</sub> Ba	1	5.0	2	2	D.B.
1264	PKK51	Tawau North	S. Tawau	vol. breccia	L <sub>1</sub> Ba	1	1.0	3	2	B.
1265	PKK52	Tawau North	S. Merotai K.	—	L <sub>1</sub> Ba	1	1.2	1	2	B.
1266	PKK53	Tawau North	S. Merotai K.	—	Q <sub>1</sub>	1	1.2	3	1	R.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1357	Pjg21	Sungai Tingkayu	S. Binuang	—	P.kg	1	1.5	2	3	Y.G.
1358	Pjg22	Sungai Tingkayu	S. Jirangku	sandstone	P.km	2	1.8	3	2	B.
1359	Pjg23	Sungai Tingkayu	S. Jirangku	—	P.km	1	1.0	3	2	B.
1360	Pjg24	Sungai Tingkayu	S. Jirangku	—	P.km	1	1.6	3	2	B.
1361	Pjg25	Sungai Tingkayu	S. Jirangku	—	P.km	1	4.0	3	2	B.
1362	Pjg26	Sungai Tingkayu	S. Jirangku	—	P.km	1	1.4	3	2	B.
1363	Pjg27	Sungai Tingkayu	S. Kalumpang	siltstone	P.kg	1	0.8	3	3	Y.B.
1364	Pjg28	Sungai Tingkayu	S. Kalumpang	siltstone	P.kg	1	1.5	3	3	Y.B.
1365	Pjg29	Sungai Tingkayu	S. Kalumpang	—	P.kg	2	1.5	3	2	B.
1366	Pjg30	Sungai Tingkayu	S. Kara	sandstone	P.kg	1	5.0	1	1	B.
1367	Pjg31	Sungai Tingkayu	S. Kara	siltstone	P.kg	1	0.7	2	3	B.
1368	Pjg32	Sungai Tingkayu	S. Kara	siltstone	P.kg	1	1.0	1	4	D.G.
1369	Pjg33	Sungai Tingkayu	S. Kara	siltstone	P.kg	2	5.0	2	3	Y.B.
1370	Pjg34	Mostyn	S. Binuang	—	Q <sub>1</sub>	2	4.0	3	2	B.
1371	Pjg35	Mostyn	S. Binuang	—	Q <sub>1</sub>	2	4.0	3	2	B.
1372	Pjg36	Mostyn	S. Binuang	—	Q <sub>1</sub>	1	4.0	3	2	B.
1373	Pjg37	Mostyn	S. Binuang	—	Q <sub>1</sub>	1	3.0	3	2	B.
1374	Pjg38	Mostyn	S. Binuang	—	P.kg	1	3.0	4	2	L.B.
1375	Pjg39	Mostyn	S. Kara	siltstone	P.kg	1	0.5	3	4	Y.B.
1376	Pjg40	Mostyn	S. Kara	siltstone	P.kg	2	3.0	3	3	Y.B.
1377	Pjg41	Mostyn	S. Kara	siltstone	P.kg	1	3.0	3	3	D.B.
1378	Pjg42	Mostyn	S. Kara	siltstone	P.kg	2	5.0	2	3	Y.B.
1379	Pjg43	Mostyn	S. Kara	siltstone	P.kg	2	0.5	2	3	B.
1380	Pjg44	Mostyn	S. Kara	—	P.kg	2	6.0	2	3	D.B.
1381	Pjg45	Mostyn	S. Kara	—	P.kg	2	2.0	3	2	Y.B.
1382	Pjg46	Mostyn	S. Malati	—	Q <sub>1</sub>	3	15.0	2	2	D.B.
1383	Pjg47	Mostyn	S. Kara	—	Q <sub>1</sub>	3	10.0	2	2	D.B.
1384	Pjg48	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	1.5	2	3	Y.B.
1385	Pjg49	Mostyn	S. Kara	siltstone	P.kg	1	0.5	2	4	D.G.
1386	Pjg50	Sungai Tingkayu	S. Kara	siltstone	P.kg	1	1.5	1	4	D.B.
1387	Pjg51	Sungai Tingkayu	S. Kara	sandstone	P.kg	1	1.0	2	2	B.
1388	Pjg52	Sungai Tingkayu	S. Binuang	—	P.km	1	1.5	2	1	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1389	Pjh01	Sungai Tingkayu	S. Kalumpang	—	P.km	4	10.0	3	3	B.Y.
1390	Pjh02	Sungai Tingkayu	S. Kalumpang	—	P.km	2	3.5	3	2	B.
1391	Pjh03	Sungai Tingkayu	S. Kalumpang	—	P.km	2	18.0	3	2	B.
1392	Pjh04	Sungai Tingkayu	S. Jirangku	—	P.km	4	3.0	3	2	B.
1393	Pjh05	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	1.2	3	2	B.
1394	Pjh06	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	4	8.0	3	3	B.
1395	Pjh07	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	1	1.3	3	2	B.
1396	Pjh08	Sungai Tingkayu	S. Berdan	—	Q <sub>1</sub>	1	1.5	3	2	B.
1397	Pjh09	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	1	1.2	2	3	B.
1398	Pjh10	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	1	1.4	2	3	D.B.

\*1: none(0), middle(1), slow(2), moderate(3), fast(4)  
\*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1313	Pjg01	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	1	1.5	4	2	G.B.
1314	Pjg02	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	1	2.0	4	2	Y.B.
1315	Pjg03	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	1	1.0	4	3	G.B.
1316	Pjg04	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	2	3.0	2	1	G.
1317	Pjg05	Sungai Tingkayu	S. Tingkayu	—	P.km	1	6.0	2	2	L.G.
1318	Pjg06	Sungai Tingkayu	S. Tingkayu	—	P.km	1	2.0	2	1	L.G.
1319	Pjg07	Sungai Tingkayu	S. Tingkayu	—	P.km	1	5.0	2	1	L.B.
1320	Pjg08	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	3	10.0	3	1	Y.B.
1321	Pjg09	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	1	11.0	3	1	L.B.
1322	Pjg10	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	4	2.0	2	1	Y.B.
1323	Pjg11	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	4	13.0	3	2	B.
1324	Pjg12	Sungai Tingkayu	S. Tingkayu	—	RPcs	1	2.0	2	2	G.
1325	Pjg13	Sungai Tingkayu	S. Tingkayu	—	RPcs	1	3.0	2	1	Y.B.
1326	Pjg14	Sungai Tingkayu	S. Tingkayu	—	RPcs	1	1.5	2	3	L.G.
1327	Pjg15	Sungai Tingkayu	S. Tingkayu	—	RPcs	2	4.0	3	3	Y.B.
1328	Pjg16	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	2	3.0	3	2	Y.B.
1329	Pjg17	Mostyn	S. Tingkayu	—	Q <sub>1</sub>	4	16.0	2	2	B.
1330	Pjg18	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	1	2.0	2	3	Y.B.
1331	Pjg19	Mostyn	S. Tingkayu	—	Q <sub>1</sub>	1	1.5	2	2	G.B.
1332	Pjg20	Mostyn	S. Tingkayu	—	Q <sub>1</sub>	1	3.0	3	1	Y.B.
1333	Pjg21	Mostyn	S. Tingkayu	—	Q <sub>1</sub>	1	1.0	3	2	Y.B.
1334	Pjg22	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	2	8.0	2	1	L.B.
1335	Pjg23	Sungai Tingkayu	S. Tingkayu	—	Q <sub>1</sub>	4	12.0	2	3	B.
1336	Pjg24	Sungai Tingkayu	S. Tingkayu	—	P.kg	1	2.0	2	2	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1337	Pjg01	Sungai Tingkayu	S. Tingkayu	—	P.km	1	3.0	2	1	Y.B.
1338	Pjg02	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	2	4.0	2	3	Y.B.
1339	Pjg03	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	2	4.0	3	3	Y.B.
1340	Pjg04	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	3	5.0	2	3	L.G.
1341	Pjg05	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	1.0	1	3	Y.B.
1342	Pjg06	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	1.0	2	3	Y.B.
1343	Pjg07	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	2.0	2	3	Y.B.
1344	Pjg08	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	2.0	2	3	G.B.
1345	Pjg09	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	2.0	3	3	Y.B.
1346	Pjg10	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	2.0	2	1	L.G.
1347	Pjg11	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	1.5	2	4	Y.B.
1348	Pjg12	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	3	6.0	3	3	Y.B.
1349	Pjg13	Mostyn	S. Binuang	—	Q <sub>1</sub>	2	1.5	2	4	L.G.
1350	Pjg14	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	2	1.5	3	4	L.G.
1351	Pjg15	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	1	2.0	4	3	Y.B.
1352	Pjg16	Sungai Tingkayu	S. Binuang	sandstone	P.kg	1	1.5	4	3	Y.B.
1353	Pjg17	Mostyn	S. Binuang	—	P.kg	1	3.0	3	3	L.B.
1354	Pjg18	Sungai Tingkayu	S. Binuang	—	Q <sub>1</sub>	2	2.0	3	2	Y.B.
1355	Pjg19	Sungai Tingkayu	S. Binuang	—	P.kg	1	5.0	3	2	Y.B.
1356	Pjg20	Sungai Tingkayu	S. Binuang	—	P.kg	1	1.0	1	3	L.G.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
\*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1450	PJ101	Apas-Balang	S. Mantri	andesite	I,An	1	0.5	3	1	B. Y.
1451	PJ102	Sungai Tingkayu	S. Malati	—	I,An	1	4.0	3	2	B. Y.
1452	PJ103	Sungai Tingkayu	S. Malati	—	I,An	1	4.0	3	2	B. Y.
1453	PJ104	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	3	3	B. Y.
1454	PJ105	Sungai Tingkayu	S. Malati	—	I,An	1	4.0	3	3	B. Y.
1455	PJ106	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	3	3	B. Y.
1456	PJ107	Sungai Tingkayu	S. Malati	—	I,An	2	5.0	3	3	B. Y.
1457	PJ108	Sungai Tingkayu	S. Malati	—	I,An	1	0.5	2	2	B. Y.
1458	PJ109	Sungai Tingkayu	S. Malati	—	I,An	1	2.0	3	3	B. Y.
1459	PJ110	Sungai Tingkayu	S. Malati	—	I,An	2	5.0	3	3	B. Y.
1460	PJ111	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	3	3	B. Y.
1461	PJ112	Sungai Tingkayu	S. Malati	—	I,An	1	1.5	3	3	B. Y.
1462	PJ113	Sungai Tingkayu	S. Malati	—	I,An	1	1.0	2	3	B. Y.
1463	PJ114	Sungai Tingkayu	S. Malati	—	I,An	2	5.0	3	3	B. Y.
1464	PJ115	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	2	3	B. Y.
1465	PJ116	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	2	3	B. Y.
1466	PJ117	Sungai Tingkayu	S. Malati	—	I,An	1	1.0	2	3	B. Y.
1467	PJ118	Tawau North	S. Mantri	tuff breccia	I,An	1	2.0	4	1	B. Y.
1468	PJ119	Tawau North	S. Mantri	andesite	I,An	1	1.5	4	1	B. Y.
1469	PJ120	Tawau North	S. Mantri	andesite	I,An	1	0.8	4	1	B. Y.
1470	PJ121	Tawau North	S. Mantri	andesite	I,An	2	3.0	4	1	B. Y.
1471	PJ122	Tawau North	S. Mantri	—	I,An	1	1.2	4	1	B. Y.
1472	PJ123	Tawau North	S. Mantri	—	I,An	1	2.5	4	1	B. Y.
1473	PJ124	Tawau North	S. Mantri	—	I,An	1	0.8	4	1	B. Y.
1474	PJ125	Tawau North	S. Mantri	—	I,An	1	0.8	4	1	B. Y.
1475	PJ126	Tawau North	S. Mantri	—	I,An	1	4.0	4	1	D. B.
1476	PJ127	Apas-Balang	S. Mantri	—	I,An	2	5.0	4	1	D. B.
1477	PJ128	Tawau North	S. Balung	—	I,An	1	0.6	4	1	D. B.
1478	PJ129	Tawau North	S. Balung	—	I,An	1	1.5	4	1	D. B.
1479	PJ130	Tawau North	S. Balung	—	I,An	1	2.5	4	1	B. Y.
1480	PJ131	Tawau North	S. Balung	—	I,An	1	2.0	4	1	B. Y.
1481	PJ132	Tawau North	S. Balung	—	I,An	1	2.5	4	1	B. Y.
1482	PJ133	Tawau North	S. Balung	—	I,An	1	6.0	4	1	B. Y.
1483	PJ134	Tawau North	S. Balung	—	I,An	2	8.5	4	1	B. Y.
1484	PJ135	Tawau North	S. Balung	—	I,An	1	1.0	4	1	B. Y.
1485	PJ136	Tawau North	S. Balung	—	I,An	1	1.2	4	1	B. Y.
1486	PJ137	Tawau North	S. Balung	—	I,An	1	1.5	4	1	B. Y.
1487	PJ138	Tawau North	S. Balung	—	I,An	2	3.0	4	1	B. Y.
1488	PJ139	Tawau North	S. Balung	—	I,An	1	1.2	4	1	B. Y.
1489	PJ140	Tawau North	S. Balung	—	I,An	1	1.2	3	1	B. Y.
1490	PJ141	Tawau North	S. Balung	—	I,An	1	1.0	3	1	B. Y.
1491	PJ142	Moslyn	S. Mantri	—	I,An	1	1.0	2	3	B. Y.
1492	PJ143	Moslyn	S. Mantri	—	I,An	1	0.8	3	2	B. Y.
1493	PJ144	Moslyn	S. Mantri	—	I,An	1	1.0	3	3	D. B.
1494	PJ145	Moslyn	S. Mantri	—	I,An	2	8.5	3	1	B. Y.
1495	PJ146	Moslyn	S. Mantri	—	I,An	1	0.5	3	1	B. Y.
1496	PJ147	Apas-Balang	S. Balung	andesite	I,An	1	2.0	3	2	B. Y.
1497	PJ148	Apas-Balang	S. Balung	andesite	I,An	2	7.0	4	1	B. Y.
1498	PJ149	Apas-Balang	S. Balung	—	I,An	1	0.5	3	1	D. B.
1499	PJ150	Apas-Balang	S. Balung	—	I,An	1	0.8	3	1	D. B.

\*1: none (0), middle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1389	PJh11	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	1	1.3	2	3	D. B.
1400	PJh12	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	2	1.8	2	3	D. B.
1401	PJh13	Sungai Tingkayu	S. Kalumpang	—	Q <sub>1</sub>	4	10.0	2	3	D. B.
1402	PJh14	Moslyn	S. Kalumpang	—	P,An	1	1.5	2	3	D. B.
1403	PJh15	Sungai Tingkayu	S. Kalumpang	—	P,An	1	5.0	2	1	B. Y.
1404	PJh16	Sungai Tingkayu	S. Kalumpang	—	P,An	1	4.0	2	1	D. B.
1405	PJh17	Sungai Tingkayu	S. Kalumpang	—	P,An	1	3.0	4	1	D. B.
1406	PJh18	Sungai Tingkayu	S. Kalumpang	—	P,An	1	3.0	4	1	D. B.
1407	PJh19	Sungai Tingkayu	S. Kalumpang	—	P,An	1	0.5	2	2	D. B.
1408	PJh20	Sungai Tingkayu	S. Kalumpang	shale	P,An	1	—	—	—	—
1409	PJh21	Sungai Tingkayu	S. Durian	lapilli tuff	I,An	2	6.0	3	1	D. B.
1410	PJh22	Sungai Tingkayu	S. Durian	vol. breccia	I,An	2	5.0	4	2	D. B.
1411	PJh23	Sungai Tingkayu	S. Durian	vol. breccia	I,An	1	4.0	4	2	B. Y.
1412	PJh24	Sungai Tingkayu	S. Durian	—	I,An	1	4.0	4	2	D. B.
1413	PJh25	Sungai Tingkayu	S. Malati	shale	P,An	1	1.5	3	1	B. Y.
1414	PJh26	Sungai Tingkayu	S. Malati	shale	P,An	1	2.0	3	1	D. B.
1415	PJh27	Sungai Tingkayu	S. Malati	andesite	I,An	2	2.5	3	1	D. B.
1416	PJh28	Sungai Tingkayu	S. Malati	andesite	I,An	1	3.0	3	2	B. Y.
1417	PJh29	Sungai Tingkayu	S. Malati	gabbro	P,An	1	3.0	3	2	B. Y.
1418	PJh30	Sungai Tingkayu	S. Malati	fine tuff	P,An	1	2.0	3	2	D. B.
1419	PJh31	Sungai Tingkayu	S. Malati	fine tuff	P,An	1	1.0	2	3	D. B.
1420	PJh32	Sungai Tingkayu	S. Kalumpang	—	P,An	1	2.0	3	3	B. Y.
1421	PJh33	Sungai Tingkayu	S. Kalumpang	—	I,An	1	1.0	2	3	B. Y.
1422	PJh34	Sungai Tingkayu	S. Malati	—	I,An	1	2.0	0	3	B. Y.
1423	PJh35	Sungai Tingkayu	S. Malati	—	I,An	1	5.0	3	3	B. Y.
1424	PJh36	Sungai Tingkayu	S. Malati	—	I,An	1	1.0	1	3	B. Y.
1425	PJh37	Sungai Tingkayu	S. Malati	—	I,An	1	2.5	2	3	B. Y.
1426	PJh38	Sungai Tingkayu	S. Malati	—	I,An	2	2.5	3	3	B. Y.
1427	PJh39	Sungai Tingkayu	S. Malati	—	I,An	2	6.0	3	3	B. Y.
1428	PJh40	Sungai Tingkayu	S. Malati	—	I,An	1	2.0	2	3	B. Y.
1429	PJh41	Moslyn	S. Malati	—	P,An	3	10.0	3	2	D. B.
1430	PJh42	Moslyn	S. Malati	—	Q <sub>1</sub>	3	5.5	3	2	B. Y.
1431	PJh43	Moslyn	S. Malati	—	P,An	3	6.0	3	2	B. Y.
1432	PJh44	Moslyn	S. Malati	—	P,An	2	8.0	4	1	B. Y.
1433	PJh45	Moslyn	S. Malati	—	P,An	2	8.0	4	1	B. Y.
1434	PJh46	Moslyn	S. Malati	—	P,An	3	8.0	3	2	B. Y.
1435	PJh47	Moslyn	S. Malati	—	P,An	3	8.0	3	2	B. Y.
1436	PJh48	Moslyn	S. Malati	—	I,An	3	2.0	2	2	B. Y.
1437	PJh49	Moslyn	S. Malati	—	I,An	3	12.0	4	1	B. Y.
1438	PJh50	Moslyn	S. Malati	—	I,An	1	2.0	2	3	B. Y.
1439	PJh51	Moslyn	S. Malati	—	I,An	3	6.0	3	3	B. Y.
1440	PJh52	Moslyn	S. Malati	—	I,An	3	6.0	3	3	B. Y.
1441	PJh53	Moslyn	S. Malati	—	I,An	2	7.0	4	3	B. Y.
1442	PJh54	Moslyn	S. Malati	—	I,An	1	8.0	3	3	B. Y.
1443	PJh55	Moslyn	S. Malati	—	I,An	1	2.0	3	3	B. Y.
1444	PJh56	Moslyn	S. Malati	—	I,An	2	1.0	2	3	B. Y.
1445	PJh57	Moslyn	S. Malati	—	I,An	1	1.0	2	3	B. Y.
1446	PJh58	Moslyn	S. Malati	—	P,An	1	0.8	2	3	B. Y.
1447	PJh59	Sungai Tingkayu	S. Malati	—	I,An	1	1.0	2	3	B. Y.
1448	PJh60	Sungai Tingkayu	S. Malati	—	I,An	1	2.5	2	3	B. Y.
1449	PJh61	Sungai Tingkayu	S. Malati	—	I,An	1	3.0	3	3	B. Y.

\*1: none (0), middle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1541	PJK41	Tawau North	S. Kinabutan B	I,An	1	2.0	2	2	B.Y.
1542	PJK42	Tawau North	S. Kinabutan B	I,An	1	1.5	2	2	B.Y.
1543	PJK43	Apas-Balang	S. Balung	I,An	3	3.0	4	2	Y.B.
1544	PJK44	Apas-Balang	S. Balung	I,An	1	10.0	4	2	Y.B.
1545	PJK45	Apas-Balang	S. Balung	I,An	4	8.0	4	2	Y.B.
1546	PJK46	Apas-Balang	S. Balung	I,An	4	5.0	4	2	Y.B.
1547	PJK47	Apas-Balang	S. Balung	I,An	2	4.0	3	3	Y.B.
1548	PJK48	Apas-Balang	S. Apas	I,An	1	6.0	4	2	Y.B.
1549	PJK49	Apas-Balang	S. Apas	I,An	2	2.0	2	4	Y.B.
1550	PJK50	Apas-Balang	S. Apas	I,An	1	3.0	2	2	Y.B.
1551	PJK51	Apas-Balang	S. Apas	I,De	2	4.0	2	2	Y.B.
1552	PJK52	Apas-Balang	S. Apas	I,De	2	3.0	2	2	Y.B.
1553	PJK53	Apas-Balang	S. Apas	I,De	2	5.0	4	2	Y.B.
1554	PJK54	Apas-Balang	S. Apas	I,De	1	1.0	3	2	D.B.
1555	PJK55	Apas-Balang	S. Apas	I,De	1	2.5	3	3	D.B.
1556	PJK56	Apas-Balang	S. Apas	I,De	2	5.5	3	2	D.B.
1557	PJK57	Apas-Balang	S. Apas	I,De	2	6.6	3	2	D.B.
1558	PJK58	Apas-Balang	S. Apas	I,De	1	0.6	3	2	B.
1559	PJK59	Apas-Balang	S. Tawau	I,De	2	8.0	3	2	Y.B.
1560	PJK60	Tawau North	S. Tawau	I,An	1	1.0	2	3	B.
1561	PJK61	Tawau North	S. Apas Kiri	I,De	1	2.0	3	2	B.
1562	PJK62	Tawau North	S. Apas	I,An	1	4.0	3	2	Y.B.
1563	PJK63	Tawau North	S. Apas	I,An	1	4.0	4	2	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1500	PJ351	S. Tingkayu	S. Kallumpang	I,An	1	5.0	3	3	B.Y.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1564	PJM01	Tawau North	S. Kinabutan B	I,An	3	4.0	4	2	B.Y.
1565	PJM02	Tawau North	S. Kinabutan B	I,An	2	3.0	3	2	B.Y.
1566	PJM03	Tawau North	S. Apas Kiri	I,An	1	2.0	2	2	Y.B.
1567	PJM04	Tawau North	S. Apas Kiri	I,An	1	2.0	2	2	Y.B.
1568	PJM05	Tawau North	S. Apas Kiri	I,An	2	7.0	4	1	Y.B.
1569	PJM06	Tawau North	S. Apas Kiri	I,An	1	4.0	4	1	Y.B.
1570	PJM07	Tawau North	S. Apas Kiri	I,An	3	6.0	4	1	Y.B.
1571	PJM08	Tawau North	S. Kinabutan B	I,An	1	1.0	2	3	B.Y.
1572	PJM09	Tawau North	S. Kinabutan B	I,An	2	3.0	3	3	B.Y.
1573	PJM10	Tawau North	S. Kinabutan B	I,An	3	5.0	3	3	B.Y.
1574	PJM11	Tawau North	S. Kinabutan B	I,An	2	2.0	3	3	B.Y.
1575	PJM12	Tawau North	S. Kinabutan B	I,An	3	12.0	4	2	B.
1576	PJM13	Tawau North	S. Kinabutan B	I,An	3	12.0	3	2	B.
1577	PJM14	Tawau North	S. Kinabutan B	I,An	1	3.5	2	2	B.
1578	PJM15	Tawau North	S. Kinabutan B	I,De	2	3.0	3	2	B.
1579	PJM16	Tawau North	S. Kinabutan B	I,De	2	7.0	2	2	Y.B.
1580	PJM17	Tawau North	S. Kinabutan B	Qz	2	10.0	3	2	Y.B.
1581	PJM18	Tawau North	S. Kinabutan B	Qz	2	5.0	2	2	Y.B.
1582	PJM19	Tawau North	S. Kinabutan B	Qz	1	0.5	1	1	L.B.
1583	PJM20	Tawau North	S. Kinabutan B	Qz	1	3.0	2	2	B.

\*1: none (0), puzzle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)



Area: Samporna Area Grid: PK6

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1706	PK611	Mostyn	S. Mantri	—	P.Kg	1	2.0	2	1	B.G.
1707	PK612	Mostyn	S. Mantri	—	P.Kg	1	0.5	0	4	P.Y.
1708	PK613	Mostyn	S. Mantri	—	P.Kg	2	2.0	2	1	P.Y.
1709	PK614	Mostyn	S. Mantri	tfc. s.s.	P.Kg	2	1.0	2	2	Y.B.
1710	PK615	Mostyn	S. Mantri	tfc. s.s.	P.Kg	1	1.0	2	2	D.B.
1711	PK616	Mostyn	S. Mantri	—	P.Kg	1	0.8	2	3	D.B.
1712	PK617	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	3	B.Y.
1713	PK618	Mostyn	S. Mantri	—	P.Kg	2	2.0	2	3	Y.B.
1714	PK619	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	3	Y.B.
1715	PK620	Mostyn	S. Mantri	tfc. mudstone	P.Kg	1	1.0	2	3	B.Y.
1716	PK621	Mostyn	S. Mantri	—	P.Kg	1	1.0	3	2	B.
1717	PK622	Mostyn	S. Mantri	—	P.Kg	1	1.0	1	4	B.G.
1718	PK623	Mostyn	S. Mantri	—	P.Kg	3	4.0	2	1	D.B.
1719	PK624	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	1	B.
1720	PK625	Mostyn	S. Mantri	—	P.Kg	1	0.8	2	1	B.
1721	PK626	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	2	B.
1722	PK627	Mostyn	S. Mantri	—	P.Kg	1	1.2	2	2	B.
1723	PK628	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	2	Y.B.
1724	PK629	Mostyn	S. Mantri	—	P.Kg	3	6.0	2	3	B.
1725	PK630	Mostyn	S. Mantri	sandstone	P.Kg	1	4.0	1	4	D.B.
1726	PK631	Mostyn	S. Mantri	shale	P.Kg	1	2.0	1	3	Y.B.
1727	PK632	Mostyn	S. Mantri	shale	P.Kg	1	3.0	1	4	D.B.
1728	PK633	Mostyn	S. Mantri	—	P.Kg	1	3.0	1	3	D.B.
1729	PK634	Mostyn	S. Mantri	—	P.Kg	1	1.0	1	3	B.Y.
1730	PK635	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	3	B.Y.
1731	PK636	Mostyn	S. Mantri	—	P.Kg	1	2.0	3	3	B.Y.
1732	PK637	Mostyn	S. Mantri	—	P.Kg	1	2.0	3	3	B.Y.
1733	PK638	Mostyn	S. Mantri	—	I.An	1	0.7	4	1	D.B.
1734	PK639	Mostyn	S. Mantri	—	I.An	1	1.3	4	1	D.B.
1735	PK640	Mostyn	S. Mantri	—	I.An	1	1.0	4	1	D.B.
1736	PK641	Mostyn	S. Mantri	—	I.An	1	0.5	3	1	D.R.
1737	PK642	Mostyn	S. Mantri	—	I.An	2	1.5	4	1	D.B.
1738	PK643	Mostyn	S. Mantri	—	P.Kg	1	1.3	2	2	Y.B.
1739	PK644	Mostyn	S. Mantri	—	P.Kg	1	1.0	0	4	G.B.
1740	PK645	Mostyn	S. Mantri	—	P.Kg	2	3.0	2	2	B.
1741	PK646	Mostyn	S. Mantri	fine tuff	P.Kg	3	2.0	2	3	B.Y.
1742	PK647	Mostyn	S. Mantri	—	P.Kg	4	6.0	2	3	B.Y.
1743	PK648	Mostyn	S. Mantri	—	P.Kg	2	7.0	3	3	B.Y.
1744	PK649	Mostyn	S. Mantri	—	P.Kg	4	10.0	3	3	B.Y.
1745	PK650	Mostyn	S. Mantri	—	P.Kg	1	2.0	2	3	P.Y.
1746	PK651	Mostyn	S. Mantri	—	P.Kg	2	5.0	3	3	B.Y.
1747	PK652	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	3	B.Y.
1748	PK653	Mostyn	S. Mantri	—	P.Kg	2	6.0	3	3	B.Y.
1749	PK654	Mostyn	S. Mantri	—	P.Kg	1	1.0	3	1	B.Y.
1750	PK655	Mostyn	S. Mantri	—	P.Kg	2	2.0	2	3	B.Y.
1751	PK656	Mostyn	S. Mantri	—	P.Kg	1	2.0	2	2	B.
1752	PK657	Mostyn	S. Mantri	—	P.Kg	1	0.5	2	3	Y.B.
1753	PK658	Mostyn	S. Mantri	—	P.Kg	1	2.5	2	2	D.B.
1754	PK659	Mostyn	S. Mantri	—	P.Kg	3	2.5	3	2	D.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Samporna Area Grid: PK6

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Color
1666	PK626	Mostyn	S. Limau	—	P.Kg	3	5.0	4	1	G.
1667	PK627	Mostyn	S. Limau	—	P.Kg	1	1.0	3	3	Y.B.
1668	PK628	Mostyn	S. Limau	—	P.Kg	1	1.0	3	4	Y.B.
1669	PK629	Mostyn	S. Kalumpang	—	P.Kg	1	2.5	3	1	B.G.
1670	PK630	Mostyn	S. Kalumpang	—	P.Kg	1	0.8	3	1	B.
1671	PK631	Mostyn	S. Kalumpang	sandstone	P.Kg	2	2.5	4	1	B.
1672	PK632	Mostyn	S. Kalumpang	sandstone	P.Kg	1	1.0	3	3	B.
1673	PK633	Mostyn	S. Kalumpang	—	P.Kg	2	3.8	2	2	D.G.
1674	PK634	Mostyn	S. Kalumpang	—	P.Kg	1	0.5	2	4	D.G.
1675	PK635	Mostyn	S. Kalumpang	tfc. silt.	P.Kg	1	0.8	4	2	D.
1676	PK636	Mostyn	S. Kalumpang	tfc. s.s.	P.Kg	2	2.0	3	2	B.
1677	PK637	Mostyn	S. Kalumpang	tfc. s.s.	P.Kg	1	1.0	3	2	B.
1678	PK638	Mostyn	S. Kalumpang	tfc. silt.	P.Kg	1	1.5	4	2	B.
1679	PK639	Mostyn	S. Kalumpang	tfc. silt.	P.Kg	2	1.7	4	2	B.
1680	PK640	Mostyn	S. Kalumpang	tfc. s.s.	P.Kg	1	1.5	4	1	B.
1681	PK641	Mostyn	S. Limau	—	P.Kg	1	2.0	4	3	B.
1682	PK642	Mostyn	S. Limau	—	P.Kg	1	3.0	4	3	B.
1683	PK643	Mostyn	S. Limau	—	P.Kg	1	5.0	3	1	B.
1684	PK644	Mostyn	S. Limau	—	P.Kg	1	4.0	2	2	Y.B.
1685	PK645	Mostyn	S. Limau	—	P.Kg	1	2.0	2	2	Y.B.
1686	PK646	Mostyn	S. Limau	—	P.Kg	1	2.0	2	2	Y.B.
1687	PK647	Mostyn	S. Limau	—	P.Kg	1	1.0	0	4	Y.B.
1688	PK648	Mostyn	S. Limau	—	P.Kg	2	5.0	2	2	Y.B.
1689	PK649	Mostyn	S. Limau	—	P.Kg	2	4.0	2	2	Y.B.
1690	PK650	Mostyn	S. Limau	—	P.Kg	1	2.0	4	1	B.
1691	PK651	Mostyn	S. Limau	—	P.Kg	1	2.0	2	3	B.
1692	PK652	Mostyn	S. Limau	—	P.Kg	1	1.0	3	2	B.
1693	PK653	Mostyn	S. Tingkayu	—	P.Kg	1	1.0	3	2	Y.B.
1694	PK654	Mostyn	S. Tingkayu	—	Q.	1	2.0	3	3	Y.B.
1695	PK655	Mostyn	S. Tingkayu	—	Q.	1	2.0	2	1	R.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)



Area: Semporna Area Grid: PKI

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
1805	PKJ51	Apas-Balang	S. Balung	—	Q <sub>1</sub>	2	2.0	2	2	1	B.Y.
1806	PKJ52	Apas-Balang	S. Balung	—	I.An	1	0.8	2	2	2	B.
1807	PKJ53	Apas-Balang	S. Balung	—	I.An	1	2.5	2	2	2	B.Y.
1808	PKJ54	Apas-Balang	S. Balung	—	I.Da	2	3.0	2	2	2	B.Y.
1809	PKJ55	Apas-Balang	S. Balung	—	I.Da	2	4.0	2	2	2	B.Y.
1810	PKJ56	Apas-Balang	S. Balung	—	I.Da	2	3.0	2	2	2	B.Y.
1811	PKJ57	Apas-Balang	S. Mantri	—	I.An	1	4.0	2	2	2	B.Y.
1812	PKJ58	Apas-Balang	S. Mantri	—	I.An	1	1.2	4	4	1	B.
1813	PKJ59	Apas-Balang	S. Mantri	—	I.An	1	1.5	3	3	2	R.B.
1814	PKJ60	Apas-Balang	S. Mantri	—	I.An	1	3.0	3	3	2	Y.B.
1815	PKJ61	Apas-Balang	S. Mantri	altered and	I.An	1	1.2	3	2	2	B.
1816	PKJ62	Apas-Balang	S. Mantri	—	I.An	2	1.5	2	2	2	B.Y.
1817	PKJ63	Mostyn	S. Mantri	—	P.Kg	3	2.0	3	3	3	B.Y.

Area: Semporna Area Grid: PKK

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
1818	PKK01	Apas-Balang	S. Balung	—	I.An	1	1.5	1	1	2	B.Y.
1819	PKK02	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	1.5	2	2	2	B.Y.
1820	PKK03	Apas-Balang	S. Balung	—	Q <sub>1</sub>	3	7.0	2	3	3	B.Y.
1821	PKK04	Apas-Balang	S. Balung	dacite	I.Da	2	3.5	2	2	2	B.Y.
1822	PKK05	Apas-Balang	S. Balung	—	I.Da	1	0.7	2	2	2	B.Y.
1823	PKK06	Apas-Balang	S. Balung	—	I.Da	2	3.5	3	3	3	B.Y.
1824	PKK07	Apas-Balang	S. Balung	—	I.Da	1	1.5	2	2	2	B.Y.
1825	PKK08	Apas-Balang	S. Balung	andesite	I.An	3	4.0	3	3	2	B.Y.
1826	PKK09	Apas-Balang	S. Balung	andesite	I.An	1	0.8	3	2	2	B.
1827	PKK10	Apas-Balang	S. Balung	andesite	I.An	3	4.0	3	3	2	B.
1828	PKK11	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	0.5	1	3	3	B.
1829	PKK12	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	3.0	3	3	3	B.
1830	PKK13	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	1.5	1	1	1	D.B.
1831	PKK14	Apas-Balang	S. Balung	—	I.An	1	2.0	2	2	2	D.B.
1832	PKK15	Apas-Balang	S. Balung	—	I.An	2	3.0	3	3	2	B.
1833	PKK16	Apas-Balang	S. Balung	—	I.An	1	2.0	3	3	3	B.
1834	PKK17	Apas-Balang	S. Kawa	—	Q <sub>1</sub>	1	4.5	3	3	3	B.
1835	PKK18	Apas-Balang	S. Kawa	—	Q <sub>1</sub>	2	5.0	3	3	3	L.B.
1836	PKK19	Apas-Balang	S. Balung	—	I.An	1	1.0	2	2	2	B.Y.
1837	PKK20	Apas-Balang	S. Balung	—	I.An	1	0.5	0	2	2	B.Y.
1838	PKK21	Apas-Balang	S. Balung	—	I.An	1	1.5	2	2	2	B.Y.
1839	PKK22	Apas-Balang	S. Balung	—	I.An	2	1.0	2	2	2	B.Y.
1840	PKK23	Apas-Balang	S. Balung	—	I.An	1	0.5	2	3	2	D.B.
1841	PKK24	Apas-Balang	S. Kawa	—	Q <sub>1</sub>	2	3.0	3	3	2	B.Y.
1842	PKK25	Apas-Balang	S. Kawa	—	Q <sub>1</sub>	2	3.0	3	3	2	B.Y.
1843	PKK26	Apas-Balang	S. Kawa	—	Q <sub>1</sub>	2	1.0	2	2	2	B.Y.
1844	PKK27	Apas-Balang	S. Goding	—	Q <sub>1</sub>	1	1.0	2	2	2	B.Y.
1845	PKK28	Apas-Balang	S. Goding	—	Q <sub>1</sub>	1	1.0	2	2	2	B.Y.
1846	PKK29	Apas-Balang	S. Goding	—	Q <sub>1</sub>	1	2.0	2	2	2	B.Y.
1847	PKK30	Apas-Balang	S. Goding	—	Q <sub>1</sub>	1	2.5	3	3	2	B.Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Semporna Area Grid: PKI

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow #2	Size #2	Color
1755	PKJ01	Mostyn	S. Mantri	—	I.An	2	1.5	3	1	1	D.B.
1756	PKJ02	Mostyn	S. Mantri	—	I.An	1	0.7	2	2	2	D.E.
1757	PKJ03	Mostyn	S. Mantri	lapilli tuff	I.An	2	3.0	2	2	2	D.B.
1758	PKJ04	Mostyn	S. Mantri	lapilli tuff	I.An	1	0.6	2	2	2	D.B.
1759	PKJ05	Mostyn	S. Mantri	—	I.An	1	0.8	3	2	2	D.B.
1760	PKJ06	Mostyn	S. Mantri	andesite	I.An	2	1.0	3	1	1	D.B.
1761	PKJ07	Mostyn	S. Mantri	—	I.An	3	10.0	3	2	2	D.E.
1762	PKJ08	Mostyn	S. Mantri	—	I.An	1	0.5	2	2	2	B.
1763	PKJ09	Mostyn	S. Mantri	—	Q <sub>1</sub>	1	1.0	2	2	2	B.Y.
1764	PKJ10	Mostyn	S. Mantri	—	Q <sub>1</sub>	3	6.0	3	3	3	B.Y.
1765	PKJ11	Mostyn	S. Mantri	—	Q <sub>1</sub>	2	1.0	1	4	4	B.Y.
1766	PKJ12	Mostyn	S. Mantri	—	P.Kg	2	6.0	3	3	3	B.Y.
1767	PKJ13	Mostyn	S. Mantri	—	P.Kg	1	2.0	2	3	3	B.Y.
1768	PKJ14	Mostyn	S. Mantri	—	P.Kg	1	5.0	3	3	3	B.Y.
1769	PKJ15	Mostyn	S. Mantri	—	P.Kg	2	4.0	2	3	3	B.Y.
1770	PKJ16	Mostyn	S. Mantri	—	P.Kg	1	2.0	2	2	2	B.Y.
1771	PKJ17	Mostyn	S. Mantri	—	P.Kg	1	1.0	2	2	2	B.Y.
1772	PKJ18	Mostyn	S. Mantri	—	P.Kg	2	3.0	2	3	3	B.Y.
1773	PKJ19	Mostyn	S. Mantri	—	I.An	1	1.0	2	3	3	B.Y.
1774	PKJ20	Mostyn	S. Mantri	—	I.An	1	1.0	2	3	3	B.Y.
1775	PKJ21	Apas-Balang	S. Mantri	—	I.An	1	4.0	3	3	3	Y.B.
1776	PKJ22	Apas-Balang	S. Balung	—	Q <sub>1</sub>	4	8.0	4	1	1	B.
1777	PKJ23	Apas-Balang	S. Mantri	—	Q <sub>1</sub>	2	2.0	2	2	2	D.B.
1778	PKJ24	Apas-Balang	S. Balung	—	I.An	1	0.5	2	2	2	B.Y.
1779	PKJ25	Apas-Balang	S. Balung	—	I.Da	1	2.0	2	2	2	B.Y.
1780	PKJ26	Apas-Balang	S. Balung	—	I.Da	1	1.5	2	2	2	B.Y.
1781	PKJ27	Apas-Balang	S. Mantri	—	Q <sub>1</sub>	1	0.5	0	2	2	B.G.
1782	PKJ28	Apas-Balang	S. Mantri	—	Q <sub>1</sub>	2	1.5	2	2	2	B.Y.
1783	PKJ29	Apas-Balang	S. Mantri	—	Q <sub>1</sub>	2	3.5	2	2	2	B.Y.
1784	PKJ30	Apas-Balang	S. Mantri	—	I.An	3	5.5	2	2	2	B.
1785	PKJ31	Apas-Balang	S. Mantri	—	I.An	1	0.7	2	3	3	B.
1786	PKJ32	Apas-Balang	S. Mantri	—	I.An	1	1.0	2	2	2	R.B.
1787	PKJ33	Apas-Balang	S. Mantri	—	I.An	1	1.5	2	2	2	D.B.
1788	PKJ34	Apas-Balang	S. Balung	—	I.An	1	0.5	4	2	2	B.
1789	PKJ35	Apas-Balang	S. Balung	—	I.An	3	3.0	4	2	2	B.
1790	PKJ36	Apas-Balang	S. Balung	tuff breccia	I.An	1	0.8	4	2	2	B.
1791	PKJ37	Apas-Balang	S. Balung	tuff breccia	I.An	1	4.0	4	2	2	B.
1792	PKJ38	Apas-Balang	S. Balung	tuff breccia	I.An	1	1.5	3	2	2	B.
1793	PKJ39	Apas-Balang	S. Balung	andesite	I.An	3	3.0	3	2	2	D.B.
1794	PKJ40	Apas-Balang	S. Balung	—	I.An	1	1.5	3	2	2	B.G.
1795	PKJ41	Apas-Balang	S. Balung	silli. and	I.An	2	0.8	4	3	3	B.G.
1796	PKJ42	Apas-Balang	S. Balung	—	I.An	1	1.0	3	2	2	B.
1797	PKJ43	Apas-Balang	S. Balung	vol. breccia	I.An	3	6.0	3	2	2	B.
1798	PKJ44	Apas-Balang	S. Balung	—	Q <sub>1</sub>	3	7.5	2	2	2	I.B.
1799	PKJ45	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	1.5	2	2	2	Y.B.
1800	PKJ46	Apas-Balang	S. Balung	andesite	I.An	2	2.5	2	3	3	Y.B.
1801	PKJ47	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	1.5	3	3	3	Y.B.
1802	PKJ48	Apas-Balang	S. Balung	—	Q <sub>1</sub>	1	0.7	3	3	3	Y.B.
1803	PKJ49	Apas-Balang	S. Balung	—	I.An	1	1.5	0	3	3	B.Y.
1804	PKJ50	Apas-Balang	S. Balung	—	I.An	4	10.0	4	2	2	B.Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

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Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1848	PKK31	Apas-Balang	S. Gading	---	IaBa	1	2.5	3	2	B.Y.
1849	PKK32	Apas-Balang	S. Gading	---	Q1	1	0.5	3	2	B.Y.
1850	PKK33	Apas-Balang	S. Gading	---	Q1	1	2.0	3	2	B.Y.
1851	PKK34	Apas-Balang	S. Gading	---	Q1	3	3.5	3	1	B.Y.
1852	PKK35	Apas-Balang	S. Gading	---	Q1	3	1.5	2	1	B.Y.
1853	PKK36	Apas-Balang	S. Gading	---	Q1	1	2.0	2	1	B.Y.
1854	PKK37	Apas-Balang	S. Gading	---	Q1	1	1.5	1	1	B.Y.
1855	PKK38	Apas-Balang	S. Gading	---	Q1	1	1.5	1	1	B.Y.
1856	PKK39	Apas-Balang	S. Apas	---	IaAn	3	6.0	3	2	B.Y.
1857	PKK40	Apas-Balang	S. Apas	---	IaAn	3	6.0	3	2	B.Y.
1858	PKK41	Apas-Balang	S. Apas	---	IaAn	1	1.5	3	2	B.Y.
1859	PKK42	Apas-Balang	S. Apas	---	IaAn	3	6.0	3	2	B.Y.
1860	PKK43	Apas-Balang	S. Apas	---	PtKg	2	4.5	3	2	B.
1861	PKK44	Apas-Balang	S. Apas	---	PtKg	2	4.0	3	2	B.
1862	PKK45	Apas-Balang	S. Apas	---	PtKg	2	6.0	3	2	B.
1863	PKK46	Apas-Balang	S. Apas	---	PtKg	1	0.7	2	2	B.
1864	PKK47	Apas-Balang	S. Apas	---	PtKg	1	0.8	4	1	B.
1865	PKK48	Apas-Balang	S. Apas	---	PtKg	1	9.0	2	3	B.Y.
1866	PKK49	Apas-Balang	S. Baling	---	IaBa	1	1.0	2	3	B.
1867	PKK50	Apas-Balang	S. Terangan	---	Q1	1	4.0	3	2	B.
1868	PKK51	Apas-Balang	S. Baling	---	IaAn	1	1.5	3	1	B.
1869	PKK52	Apas-Balang	S. Baling	---	IaBa	1	1.0	2	3	B.G.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1870	PKn01	Apas-Balang	S. Apas	---	PtKg	2	5.0	3	2	B.
1871	PKn02	Apas-Balang	S. Apas	---	Q1	3	8.0	3	3	B.Y.
1872	PKn03	Apas-Balang	S. Apas	---	Q1	1	12.0	3	3	B.Y.
1873	PKn04	Apas-Balang	S. Apas	---	Q1	4	1.0	2	3	G.B.
1874	PKn05	Apas-Balang	S. Apas	---	Q1	1	2.0	3	1	B.Y.
1875	PKn06	Apas-Balang	S. Apas	---	Q1	1	1.5	3	1	B.Y.
1876	PKn07	Apas-Balang	S. Apas	---	Q1	1	9.0	3	2	B.
1877	PKn08	Apas-Balang	S. Apas Kiri	---	Q1	3	12.0	3	2	B.
1878	PKn09	Apas-Balang	S. Apas Kiri	---	Q1	3	12.0	3	2	B.
1879	PKn10	Apas-Balang	S. Apas	---	Q1	4	14.0	3	2	B.
1880	PKn11	Apas-Balang	S. Apas	and. site	IaAn	3	7.0	3	2	D.B.
1881	PKn12	Apas-Balang	S. Apas	---	Q1	1	1.0	1	2	B.Y.
1882	PKn13	Apas-Balang	S. Apas	---	Q1	1	0.5	1	2	B.G.
1883	PKn14	Apas-Balang	S. Apas	---	Q1	2	0.5	1	4	B.G.
1884	PKn15	Apas-Balang	S. Apas	---	Q1	2	2.0	1	4	G.
1885	PKn16	Apas-Balang	S. Apas	---	Q1	4	8.0	2	3	D.B.
1886	PKn17	Apas-Balang	S. Apas	---	Q1	2	2.0	2	2	B.Y.
1887	PKn18	Apas-Balang	S. Parit	---	Q1	2	1.5	2	2	B.Y.
1888	PKn19	Apas-Balang	S. Parit	---	Q1	2	1.0	2	2	B.Y.
1889	PKn20	Apas-Balang	S. Apas	---	Q1	2	15.0	2	3	B.G.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

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Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1890	PKn21	Apas-Balang	S. Gading	---	Q1	2	1.5	2	3	B.Y.
1891	PKn22	Apas-Balang	S. Gading	---	Q1	1	2.0	2	3	B.Y.
1892	PKn23	Apas-Balang	S. Gading	---	Q1	2	2.0	3	2	B.Y.
1893	PKn24	Apas-Balang	S. Gading	---	Q1	3	3.5	3	2	B.Y.
1894	PKn25	Apas-Balang	S. Gading	---	Q1	2	2.5	3	1	G.B.
1895	PKn26	Apas-Balang	S. Gading	---	Q1	1	1.5	2	1	B.Y.
1896	PKn27	Apas-Balang	S. Gading	---	Q1	2	1.5	1	1	B.Y.
1897	PKn28	Apas-Balang	S. Gading	---	Q1	1	1.0	2	2	B.Y.
1898	PKn29	Apas-Balang	S. Gading	---	Q1	1	1.0	2	2	B.Y.
1899	PKn30	Apas-Balang	S. Gading	---	Q1	1	1.5	2	2	B.Y.
1900	PKn31	Apas-Balang	S. Gading	---	Q1	1	2.0	2	3	B.G.
1901	PKn32	Apas-Balang	S. Gading	---	Q1	2	0.5	0	4	B.Y.
1902	PKn33	Apas-Balang	S. Gading	---	Q1	2	1.5	2	3	B.Y.
1903	PKn34	Apas-Balang	S. Gading	---	Q1	3	4.0	2	3	B.Y.
1904	PKn35	Apas-Balang	S. Gading	---	Q1	1	1.0	1	2	B.Y.
1905	PKn36	Apas-Balang	S. Apas	---	Q1	1	0.8	1	3	B.Y.
1906	PKn37	Apas-Balang	S. Apas	---	Q1	1	1.0	1	2	B.Y.
1907	PKn38	Apas-Balang	S. Gading	---	Q1	3	4.0	3	2	B.Y.
1908	PKn39	Apas-Balang	S. Gading	---	Q1	3	4.5	2	3	B.
1909	PKn40	Apas-Balang	S. Wakuba	---	Q1	1	0.5	2	3	B.G.
1910	PKn41	Apas-Balang	S. Wakuba	---	Q1	1	0.5	2	4	B.Y.
1911	PKn42	Apas-Balang	S. Wakuba	---	Q1	1	2.0	2	3	B.G.
1912	PKn43	Apas-Balang	S. Parit	---	Q1	1	1.5	1	4	B.G.
1913	PKn44	Apas-Balang	S. Apas	and. site	Q1	4	18.0	3	2	B.
1914	PKn45	Apas-Balang	---	---	Q1	1	1.0	1	2	B.Y.
1915	PKn46	Apas-Balang	S. Wakuba	---	Q1	1	1.0	2	3	B.Y.
1916	PKn47	Apas-Balang	S. Wakuba	---	Q1	1	1.0	2	2	B.Y.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1917	PKn01	Apas-Balang	S. Parit	---	Q1	2	4.0	2	3	B.G.
1918	PKn02	Apas-Balang	---	---	Q1	1	0.5	1	3	D.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
1919	PKF01	Mostyn	S. Tingkayu	---	PtKm	1	1.5	4	2	B.
1920	PKF02	Mostyn	S. Tingkayu	---	PtKm	3	4.0	2	3	L.B.
1921	PKF03	Mostyn	---	basalt	IaBa	3	5.0	4	2	B.
1922	PKF04	Mostyn	---	---	IaBa	2	4.0	2	1	B.
1923	PKF05	Mostyn	---	---	IaBa	3	3.0	2	2	D.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1924	PMF06	Mostyn	S. Tingkayu	—	I-Ba	1	3.0	2	1	P.B.
1925	PMF07	Mostyn	S. Tingkayu	—	I-Ba	3	3.0	2	1	B.
1926	PMF08	Mostyn	S. Tingkayu	—	I-Ba	1	2.0	1	2	P.B.
1927	PMF09	Mostyn	S. Tingkayu	—	RPCs	1	2.0	2	3	P.B.
1928	PMF10	Mostyn	—	—	RPCs	1	3.0	3	1	G.B.
1929	PMF11	Mostyn	—	—	Q <sub>1</sub>	1	2.0	3	3	I.Y.B.
1930	PMF12	Mostyn	—	—	RPCs	1	6.0	4	1	Y.B.
1931	PMF13	Mostyn	—	—	RPCs	2	2.0	4	1	B.
1932	PMF14	Mostyn	—	—	RPCs	1	3.0	4	1	B.
1933	PMF15	Mostyn	—	—	RPCs	1	3.0	4	1	B.
1934	PMF16	Mostyn	—	—	RPCs	2	4.0	3	1	B.
1935	PMF17	Mostyn	S. Hatarid	—	RPCs	3	3.0	2	1	Y.B.
1936	PMF18	Mostyn	S. Hatarid	—	RPCs	3	3.0	2	1	B.
1937	PMF19	Mostyn	—	—	RPCs	1	1.0	3	1	B.
1938	PMF20	Mostyn	—	basalt	RPCs	2	4.0	3	2	B.
1939	PMF21	Mostyn	—	—	RPCs	1	1.0	2	1	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1965	PMG26	Mostyn	—	—	RPCs	1	2.0	3	1	Y.B.
1966	PMG27	Mostyn	—	—	RPCs	2	3.0	3	1	Y.B.
1967	PMG28	Mostyn	—	—	Ib	1	2.0	2	1	P.B.
1968	PMG29	Mostyn	—	—	Ib	1	2.0	2	1	P.B.
1969	PMG30	Mostyn	S. Tingkayu	—	I-Ba	2	3.0	3	4	G.B.
1970	PMG31	Mostyn	S. Tingkayu	—	RPCs	1	3.0	2	3	G.B.
1971	PMG32	Mostyn	S. Tingkayu	basalt	I-Ba	1	4.0	2	2	G.
1972	PMG33	Mostyn	S. Tingkayu	—	I-Ba	1	1.0	2	4	G.B.
1973	PMG34	Mostyn	S. Tingkayu	—	I-Ba	1	1.5	2	3	B.G.
1974	PMG35	Mostyn	S. Limau	—	I-Ba	1	0.7	2	2	B.G.
1975	PMG36	Mostyn	S. Limau	—	P.Ag	1	0.5	1	2	B.G.
1976	PMG37	Mostyn	S. Tingkayu	—	I-Ba	1	4.0	1	1	D.B.
1977	PMG38	Mostyn	S. Tingkayu	—	I-Ba	1	0.5	1	3	D.B.
1978	PMG39	Mostyn	S. Tingkayu	—	I-Ba	1	0.4	0	2	D.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1979	PMh01	Mostyn	S. Limau	—	P.Ag	3	7.0	4	3	B.
1980	PMh02	Mostyn	S. Kalumpang	—	P.Ag	2	1.5	3	3	Y.B.
1981	PMh03	Mostyn	S. Kalumpang	—	P.Ag	1	1.5	2	4	Y.B.
1982	PMh04	Mostyn	S. Kalumpang	bfc. s.s.	P.Ag	1	2.0	1	2	B.
1983	PMh05	Mostyn	S. Kalumpang	—	P.Ag	2	3.0	1	3	Y.B.
1984	PMh06	Mostyn	S. Tundong	—	P.Ag	2	2.0	2	3	Y.B.
1985	PMh07	Mostyn	S. Kalumpang	—	P.Ag	1	2.0	2	2	Y.B.
1986	PMh08	Mostyn	S. Tundong	—	P.Ag	1	3.0	2	3	G.B.
1987	PMh09	Mostyn	S. Limau	—	P.Ag	1	2.0	4	4	B.
1988	PMh10	Mostyn	S. Kalumpang	—	P.Ag	1	1.5	2	4	G.B.
1989	PMh11	Mostyn	S. Kalumpang	andesite	I-An	3	5.0	2	3	B.
1990	PMh12	Mostyn	S. Kalumpang	tuff breccia	I-An	3	4.0	3	3	B.
1991	PMh13	Mostyn	S. Kalumpang	—	P.Ag	1	1.0	3	1	B.
1992	PMh14	Mostyn	S. Kalumpang	—	P.Ag	1	1.5	1	3	G.B.
1993	PMh15	Mostyn	S. Kalumpang	—	I-An	1	1.0	2	3	G.B.
1994	PMh16	Mostyn	S. Kalumpang	—	P.Ag	2	2.0	2	2	Y.B.
1995	PMh17	Mostyn	S. Kalumpang	—	P.Ag	3	1.5	3	2	Y.B.
1996	PMh18	Mostyn	S. Kalumpang	—	P.Ag	3	5.0	4	2	B.
1997	PMh19	Mostyn	S. Kalumpang	—	P.Ag	1	1.0	3	1	Y.B.
1998	PMh20	Mostyn	S. Kalumpang	fine tuff	P.Ag	1	1.0	3	3	B.
1999	PMh21	Mostyn	S. Kalumpang	—	P.Ag	2	1.5	2	1	B.
2000	PMh22	Mostyn	S. Kalumpang	fine tuff	P.Ag	1	1.0	2	2	G.B.
2001	PMh23	Mostyn	S. Kalumpang	—	P.Ag	1	1.0	2	2	B.
2002	PMh24	Mostyn	S. Kalumpang	fine tuff	P.Ag	3	3.0	3	2	Y.B.
2003	PMh25	Mostyn	S. Kalumpang	—	P.Ag	3	3.0	1	3	B.
2004	PMh26	Mostyn	S. Kalumpang	—	P.Ag	2	2.0	3	4	B.
2005	PMh27	Mostyn	S. Limau	—	P.Ag	1	3.0	3	1	Y.B.
2006	PMh28	Mostyn	S. Kalumpang	—	P.Ag	2	2.0	3	3	Y.B.
2007	PMh29	Mostyn	S. Kalumpang	—	P.Ag	3	4.0	3	3	Y.B.
2008	PMh30	Mostyn	S. Kalumpang	—	P.Ag	1	0.5	2	3	B.Y.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Flow Size	Color
1940	PMh01	Mostyn	S. Limau	—	P.Ag	1	3.0	4	3	G.B.
1941	PMh02	Mostyn	S. Limau	—	P.Ag	3	5.0	4	3	Y.B.
1942	PMh03	Mostyn	S. Limau	—	P.Ag	2	2.0	4	3	Y.B.
1943	PMh04	Mostyn	S. Limau	—	I-Ba	2	4.0	4	3	Y.B.
1944	PMh05	Mostyn	S. Limau	—	I-Ba	1	2.0	4	2	B.
1945	PMh06	Mostyn	S. Limau	—	I-Ba	1	1.0	3	4	Y.B.
1946	PMh07	Mostyn	S. Limau	—	I-Ba	1	2.0	3	2	Y.B.
1947	PMh08	Mostyn	S. Limau	—	P.Ag	1	1.5	4	1	B.
1948	PMh09	Mostyn	S. Limau	—	P.Ag	2	1.5	3	3	G.B.
1949	PMh10	Mostyn	S. Limau	—	P.Ag	1	1.0	3	3	G.B.
1950	PMh11	Mostyn	S. Limau	—	P.Ag	3	4.0	3	2	B.
1951	PMh12	Mostyn	S. Limau	—	P.Ag	1	2.0	3	1	B.
1952	PMh13	Mostyn	S. Limau	—	P.Ag	2	3.0	3	3	B.
1953	PMh14	Mostyn	S. Limau	—	P.Ag	1	1.5	2	2	B.
1954	PMh15	Mostyn	S. Limau	—	P.Ag	2	2.0	2	3	B.
1955	PMh16	Mostyn	S. Limau	—	P.Ag	2	3.0	2	3	B.
1956	PMh17	Mostyn	S. Limau	—	P.Ag	1	2.0	3	3	B.
1957	PMh18	Mostyn	S. Tingkayu	—	I-Ba	1	1.5	3	2	C.B.
1958	PMh19	Mostyn	S. Tingkayu	vol. breccia	I-Ba	2	2.0	2	2	C.B.
1959	PMh20	Mostyn	S. Hatarid	—	RPCs	1	2.0	2	1	D.B.
1960	PMh21	Mostyn	S. Hatarid	—	RPCs	1	2.0	2	1	D.B.
1961	PMh22	Mostyn	S. Hatarid	—	RPCs	2	2.0	2	1	B.
1962	PMh23	Mostyn	S. Hatarid	—	I-Ba	1	1.0	2	1	D.B.
1963	PMh24	Mostyn	—	basalt	I-Ba	1	2.0	3	1	B.
1964	PMh25	Mostyn	—	—	I-Ba	2	3.0	3	1	B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
2049	PMJ31	Apas-Balang	S. Tundong	shale/silt.	P.Kg	1	1.5	2	2	G.
2050	PMJ32	Apas-Balang	S. Tundong	---	P.Kg	3	4.5	1	1	B.
2051	PMJ33	Apas-Balang	S. Tundong	---	P.Kg	1	3.5	1	1	Y.B.
2052	PMJ34	Apas-Balang	S. Tundong	---	P.Kg	3	5.0	3	3	Y.B.
2053	PMJ35	Apas-Balang	S. Pang Burong	sili. vol.	I.Da	1	3.5	3	1	Y.B.
2054	PMJ36	Apas-Balang	S. Pang Burong	---	P.Kg	2	3.5	2	1	Y.B.
2055	PMJ37	Apas-Balang	S. Pang Burong	shale/silt.	P.Kg	2	3.5	3	1	Y.B.
2056	PMJ38	Apas-Balang	S. Pang Burong	---	P.Kg	2	3.5	3	1	B.
2057	PMJ39	Apas-Balang	S. Pang Burong	---	P.Kg	2	5.0	2	1	Y.B.
2058	PMJ40	Mostyn	S. Pang Burong	---	P.Kg	3	5.0	3	1	B.
2059	PMJ41	Apas-Balang	S. Pang Burong	---	P.Kg	2	5.0	2	2	G.B.
2060	PMJ42	Apas-Balang	S. Balung Kiri	vol. breccia	I.An	1	6.0	4	1	B.
2061	PMJ43	Apas-Balang	S. Pang Burong	---	P.Kg	1	3.5	3	2	B.
2062	PMJ44	Apas-Balang	S. Pang Burong	siltstone	P.Kg	2.0	2.0	3	2	B.
2063	PMJ45	Apas-Balang	S. Pang Burong	---	P.Kg	1	1.2	2	2	B.
2064	PMJ46	Apas-Balang	S. Pang Burong	---	P.Kg	2	4.0	2	3	B.
2065	PMJ47	Apas-Balang	S. Pang Burong	---	P.Kg	1	1.5	2	3	B.
2066	PMJ48	Apas-Balang	S. Pang Burong	---	P.Kg	3	5.0	3	2	Y.B.
2067	PMJ49	Apas-Balang	S. Pang Burong	---	P.Kg	1	3.0	4	1	R.B.
2068	PMJ50	Apas-Balang	S. Pang Burong	---	I.Da	1	1.5	2	1	Y.B.
2069	PMJ51	Apas-Balang	S. Tundong	---	P.Kg	1	2.0	2	2	B.
2070	PMJ52	Apas-Balang	S. Tundong	---	P.Kg	2	1.0	0	2	Y.B.
2071	PMJ53	Apas-Balang	S. Tundong	---	P.Kg	2	2.0	0	2	B.
2072	PMJ54	Mostyn	S. Tundong	---	P.Kg	2	3.0	4	4	R.B.
2073	PMJ55	Mostyn	S. Tundong	---	P.Kg	2	3.0	3	4	R.B.
2074	PMJ56	Mostyn	S. Tundong	---	P.Kg	2	2.0	0	4	Y.B.
2075	PMJ57	Mostyn	S. Tundong	---	P.Kg	2	2.0	0	3	Y.B.
2076	PMJ58	Mostyn	S. Tundong	---	P.Kg	1	1.5	1	2	B.
2077	PMJ59	Mostyn	S. Tundong	---	P.Kg	1	1.0	1	1	G.B.
2078	PMJ60	Mostyn	S. Tundong	---	P.Kg	1	1.0	1	1	Y.B.
2079	PMJ61	Mostyn	S. Tundong	tfc. s.s.	P.Kg	2	3.0	0	2	G.B.
2080	PMJ62	Mostyn	S. Tundong	---	P.Kg	2	2.0	2	4	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
2081	PMK01	Apas-Balang	S. Balung Kiri	---	I.Da	1	6.0	4	1	R.B.
2082	PMK02	Apas-Balang	S. Balung Kiri	---	N.B1	1	3.0	3	1	B.
2083	PMK03	Apas-Balang	S. Balung Kiri	---	N.B1	1	1.0	2	2	G.B.
2084	PMK04	Apas-Balang	S. Balung Kiri	---	N.B1	1	1.0	2	3	G.B.
2085	PMK05	Apas-Balang	S. Balung Kiri	siltstone	N.B1	1	4.0	3	2	B.
2086	PMK06	Apas-Balang	S. Balung Kiri	---	N.B1	1	1.0	2	4	G.B.
2087	PMK07	Apas-Balang	S. Balung Kiri	---	N.B1	1	1.0	2	2	Y.B.
2088	PMK08	Apas-Balang	S. Balung Kiri	---	N.B1	1	1.5	2	1	Y.B.
2089	PMK09	Apas-Balang	S. Balung Kiri	---	N.B1	3	6.0	3	1	Y.B.
2090	PMK10	Apas-Balang	S. Balung Kan.	---	I.Da	2	3.0	4	2	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
2009	PMK31	Mostyn	S. Kalumpang	tfc. s.s.	P.Kg	1	0.6	1	3	B.Y.
2010	PMK32	Mostyn	S. Kalumpang	---	P.Kg	1	0.6	3	2	B.Y.
2011	PMK33	Mostyn	S. Kalumpang	---	P.Kg	1	0.4	2	3	B.Y.
2012	PMK34	Mostyn	S. Kalumpang	---	P.Kg	1	0.8	2	3	B.Y.
2013	PMK35	Mostyn	S. Kalumpang	---	P.Kg	1	1.5	1	2	B.
2014	PMK36	Mostyn	S. Kalumpang	---	P.Kg	1	1.7	2	2	B.
2015	PMK37	Mostyn	S. Kalumpang	---	P.Kg	2	2.0	2	2	P.B.
2016	PMK38	Mostyn	S. Kalumpang	---	P.Kg	1	0.6	2	2	B.
2017	PMK39	Mostyn	S. Linau	---	P.Kg	1	0.6	2	2	B.
2018	PMK40	Mostyn	S. Linau	---	P.Kg	1	0.5	2	2	Y.B.
2019	PMJ01	Mostyn	S. Tundong	---	P.Kg	1	2.0	3	3	Y.B.
2020	PMJ02	Mostyn	S. Tundong	s.s./silt.	P.Kg	2	1.5	0	2	B.
2021	PMJ03	Mostyn	S. Tundong	---	P.Kg	1	1.0	0	3	C.B.
2022	PMJ04	Mostyn	S. Tundong	---	P.Kg	1	1.5	2	3	B.
2023	PMJ05	Mostyn	S. Tundong	siltstone	P.Kg	1	2.0	2	3	B.
2024	PMJ06	Mostyn	S. Tundong	---	P.Kg	2	2.5	0	4	C.B.
2025	PMJ07	Mostyn	S. Tundong	---	P.Kg	2	4.0	0	3	R.G.
2026	PMJ08	Mostyn	S. Tundong	---	P.Kg	1	1.2	0	3	G.B.
2027	PMJ09	Mostyn	S. Tundong	---	P.Kg	2	4.0	0	3	B.
2028	PMJ10	Apas-Balang	S. Mantri	---	I.An	1	1.0	3	2	B.
2029	PMJ11	Apas-Balang	S. Mantri	---	I.An	2	8.0	3	2	B.
2030	PMJ12	Apas-Balang	S. Mantri	---	I.An	1	0.5	2	1	B.Y.
2031	PMJ13	Apas-Balang	S. Mantri	---	I.Da	1	1.5	4	1	B.Y.
2032	PMJ14	Apas-Balang	S. Mantri	---	I.Da	1	0.5	1	1	B.Y.
2033	PMJ15	Apas-Balang	S. Mantri	---	I.Da	2	5.0	4	2	B.Y.
2034	PMJ16	Apas-Balang	S. Mantri	---	I.Da	1	2.0	4	2	B.Y.
2035	PMJ17	Apas-Balang	S. Mantri	---	I.Da	1	1.5	2	2	B.Y.
2036	PMJ18	Apas-Balang	S. Mantri	---	I.Da	1	3.0	3	2	B.Y.
2037	PMJ19	Apas-Balang	S. Mantri	---	I.Da	1	0.5	1	2	B.Y.
2038	PMJ20	Apas-Balang	S. Mantri	---	I.Da	1	5.0	1	2	B.Y.
2039	PMJ21	Apas-Balang	S. Tundong	---	P.Kg	1	1.5	1	1	B.
2040	PMJ22	Apas-Balang	S. Tundong	---	P.Kg	1	1.0	0	1	Y.B.
2041	PMJ23	Apas-Balang	S. Tundong	---	P.Kg	1	1.2	0	1	B.
2042	PMJ24	Apas-Balang	S. Tundong	---	P.Kg	2	1.5	0	2	G.B.
2043	PMJ25	Apas-Balang	S. Tundong	---	P.Kg	2	4.0	0	3	G.B.
2044	PMJ26	Apas-Balang	S. Tundong	---	P.Kg	2	1.2	3	2	B.
2045	PMJ27	Apas-Balang	S. Tundong	sili. vol.	P.Kg	1	4.0	4	1	G.
2046	PMJ28	Apas-Balang	S. Tundong	shale/silt.	P.Kg	2	4.0	3	2	G.
2047	PMJ29	Apas-Balang	S. Tundong	shale/silt.	P.Kg	1	4.0	2	2	G.
2048	PMJ30	Apas-Balang	S. Tundong	shale/silt.	P.Kg	2	4.5	2	2	G.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2136	Phm01	Apas-Balang	S. Wakuba	---	Q <sub>2</sub>	3	5.0	1	3	B.
2137	Phm02	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	3	4.0	3	2	Y.B.
2138	Phm03	Apas-Balang	S. Jerangan	---	Q <sub>1</sub>	2	5.0	3	2	B.
2139	Phm04	Apas-Balang	S. Jerangan	---	Q <sub>1</sub>	2	5.0	2	2	G.B.
2140	Phm05	Apas-Balang	S. Jerangan	---	Q <sub>1</sub>	1	1.0	3	3	R.B.
2141	Phm06	Apas-Balang	S. Jerangan	---	Q <sub>2</sub>	2	6.0	1	3	G.B.
2142	Phm07	Apas-Balang	S. Balung	---	Q <sub>1</sub>	1	1.0	2	3	R.B.
2143	Phm08	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	3	4.0	1	3	G.B.
2144	Phm09	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	3	3.0	3	2	G.B.
2145	Phm10	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	2	2.0	0	2	G.B.
2146	Phm11	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	1	1.5	0	3	G.B.
2147	Phm12	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	1	1.5	2	2	P.B.
2148	Phm13	Apas-Balang	S. Wakuba	---	Q <sub>1</sub>	1	2.0	1	4	P.B.
2149	Phm14	Apas-Balang	S. Burong	---	Q <sub>2</sub>	1	1.5	3	4	P.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2150	PNF01	Moslyn	---	basalt	I <sub>2</sub> B <sub>2</sub>	2	4.0	3	2	G.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2151	Phg01	Moslyn	---	---	XPCs	1	2.0	3	1	Y.B.
2152	Phg02	Moslyn	---	---	XPCs	1	2.0	3	2	Y.B.
2153	Phg03	Moslyn	S. Atas	---	I <sub>2</sub> B <sub>2</sub>	1	2.0	3	1	B.
2154	Phg04	Moslyn	S. Atas	---	I <sub>2</sub> B <sub>2</sub>	1	1.0	1	2	G.B.
2155	Phg05	Moslyn	S. Atas	---	I <sub>2</sub> B <sub>2</sub>	1	3.0	3	1	B.
2156	Phg06	Moslyn	S. Atas	shale	XPCs	1	4.0	2	1	B.
2157	Phg07	Moslyn	S. Atas	---	I <sub>2</sub> B <sub>2</sub>	2	5.0	3	1	B.
2158	Phg08	Moslyn	S. Salumpang	---	I <sub>2</sub> B <sub>2</sub>	1	2.0	2	4	G.B.
2159	Phg09	Pulau Timun Mata	S. Sarung	---	P <sub>1</sub> Ag	1	2.0	1	3	G.B.
2160	Phg10	Pulau Timun Mata	S. Sarung	---	XPCs	2	3.0	2	1	B.
2161	Phg11	Pulau Timun Mata	S. Sarung	---	XPCs	2	3.0	2	1	B.
2162	Phg12	Pulau Timun Mata	S. Sarung	---	XPCs	2	3.0	3	1	B.
2163	Phg13	Pulau Timun Mata	S. Sarung	---	XPCs	1	3.0	1	3	Y.B.
2164	Phg14	Pulau Timun Mata	S. Sarung	---	XPCs	1	1.5	2	2	Y.B.
2165	Phg15	Moslyn	S. Atas	---	I <sub>2</sub> B <sub>2</sub>	1	0.7	3	2	D.B.
2166	Phg16	Moslyn	---	---	I <sub>2</sub> B <sub>2</sub>	1	1.2	3	2	D.B.
2167	Phg17	Moslyn	---	tfc. s.s.	I <sub>2</sub> B <sub>2</sub>	2	3.5	2	3	D.B.
2168	Phg18	Moslyn	---	---	I <sub>2</sub> B <sub>2</sub>	2	2.5	2	3	D.B.
2169	Phg19	Moslyn	S. Atas	basalt	I <sub>2</sub> B <sub>2</sub>	2	1.0	1	1	B.
2170	Phg20	Moslyn	S. Atas	basalt	I <sub>2</sub> B <sub>2</sub>	1	1.0	1	1	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2091	Phk21	Apas-Balang	S. Balung Kan.	---	I <sub>1</sub> Da	1	1.5	2	2	B.
2092	Phk22	Apas-Balang	S. Balung Kan.	---	I <sub>1</sub> Da	2	4.0	4	3	B.
2093	Phk23	Apas-Balang	S. Balung Kan.	---	I <sub>1</sub> Da	2	2.0	3	4	B.
2094	Phk24	Apas-Balang	S. Balung Kan.	---	I <sub>1</sub> Da	3	3.0	3	2	B.
2095	Phk25	Apas-Balang	S. Balung Kan.	---	I <sub>1</sub> Da	3	4.0	3	3	B.
2096	Phk26	Apas-Balang	S. Balung Kan.	andosite	I <sub>1</sub> Da	2	2.5	2	2	B.
2097	Phk27	Apas-Balang	S. Balung Kan.	decite	I <sub>1</sub> Da	3	2.5	3	1	B.
2098	Phk28	Apas-Balang	S. Balung	decite	N <sub>2</sub> B <sub>1</sub>	4	5.0	3	3	B.
2099	Phk29	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	1	1.0	2	3	B.
2100	Phk30	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	4	6.0	4	1	B.
2101	Phk31	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	2	1.2	2	1	B.
2102	Phk32	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	2	1.5	4	2	B.
2103	Phk33	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	2	2.0	2	2	B.
2104	Phk34	Apas-Balang	S. Balung	---	Q <sub>2</sub>	2	3.0	3	2	B.
2105	Phk35	Apas-Balang	S. Balung	---	N <sub>2</sub> B <sub>1</sub>	1	2.0	3	2	B.
2106	Phk36	Apas-Balang	S. Balung	---	I <sub>1</sub> Da	1	2.0	3	2	B.
2107	Phk37	Apas-Balang	S. Balung	decite	I <sub>1</sub> Da	1	2.5	2	1	B.
2108	Phk38	Apas-Balang	S. Balung	decite	I <sub>1</sub> Da	1	1.0	3	2	B.
2109	Phk39	Apas-Balang	S. Balung	decite	I <sub>1</sub> Da	2	3.0	3	1	B.
2110	Phk40	Apas-Balang	S. Balung	decite	I <sub>1</sub> Da	1	2.0	2	2	B.
2111	Phk41	Apas-Balang	S. Balung	---	I <sub>1</sub> Da	2	3.0	2	3	B.
2112	Phk42	Apas-Balang	S. Balung	---	Q <sub>2</sub>	1	1.5	2	2	B.
2113	Phk43	Apas-Balang	S. Balung	---	Q <sub>2</sub>	2	3.0	3	3	B.
2114	Phk44	Apas-Balang	S. Balung	---	Q <sub>2</sub>	2	1.5	1	4	B.
2115	Phk45	Apas-Balang	S. Balung	---	Q <sub>2</sub>	3	4.0	2	3	B.
2116	Phk46	Apas-Balang	S. Balung	---	Q <sub>2</sub>	1	0.8	2	3	B.
2117	Phk47	Apas-Balang	S. Balung	decite	I <sub>1</sub> Da	1	2.0	3	1	B.
2118	Phk48	Apas-Balang	S. Pang Burong	andosite	I <sub>1</sub> Da	1	2.0	3	1	B.
2119	Phk49	Apas-Balang	S. Pang Burong	andosite	I <sub>1</sub> Da	1	1.5	3	2	B.
2120	Phk50	Apas-Balang	S. Pang Burong	---	I <sub>1</sub> Da	1	0.5	1	4	B.
2121	Phk51	Apas-Balang	S. Pang Burong	---	I <sub>1</sub> Da	1	1.5	3	1	B.
2122	Phk52	Apas-Balang	S. Pang Burong	---	I <sub>1</sub> Da	1	1.0	2	1	B.
2123	Phk53	Apas-Balang	S. Pang Burong	---	I <sub>1</sub> Da	1	1.5	2	1	B.
2124	Phk54	Apas-Balang	S. Pang Burong	---	P <sub>1</sub> Ag	1	2.0	3	2	Y.B.
2125	Phk55	Apas-Balang	S. Pang Burong	---	P <sub>1</sub> Ag	3	5.0	3	1	Y.B.
2126	Phk56	Apas-Balang	S. Pang Burong	---	I <sub>1</sub> Da	1	1.5	3	1	Y.B.
2127	Phk57	Apas-Balang	S. Jerangan	---	Q <sub>1</sub>	1	5.0	2	3	B.
2128	Phk58	Apas-Balang	S. Balung	---	Q <sub>1</sub>	4	12.0	1	1	B.
2129	Phk59	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	4.0	3	4	B.
2130	Phk60	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	2.0	3	4	B.
2131	Phk61	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	3.0	3	1	R.B.
2132	Phk62	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	2.0	3	3	R.B.
2133	Phk63	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	1.5	0	3	B.
2134	Phk64	Apas-Balang	S. Burong	---	Q <sub>1</sub>	1	1.0	3	3	R.B.
2135	Phk65	Apas-Balang	S. Burong	---	Q <sub>1</sub>	2	1.5	3	3	R.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow $\frac{m^3}{s}$	Size $\frac{mm}{\phi}$	Color
2214	PNH21	Pulau Timbun Mata	S. Sipit	P.Ag	1	0.6	2	2	R.B.
2215	PNH22	Pulau Timbun Mata	S. Sipit	P.Ag	1	1.0	3	2	Y.B.
2216	PNH23	Pulau Timbun Mata	S. Sipit	P.Ag	1	0.8	3	2	Y.B.
2217	PNH24	Pulau Timbun Mata	S. Sipit	P.Ag	1	0.5	3	2	Y.B.
2218	PNH25	Pulau Timbun Mata	S. Sipit	P.Ag	1	0.5	3	2	Y.B.
2219	PNH26	Pulau Timbun Mata	S. Sipit	P.Ag	1	1.8	2	2	Y.B.
2220	PNH27	Pulau Timbun Mata	S. Sapang	P.Ag	1	1.5	2	2	Y.B.
2221	PNH28	Pulau Timbun Mata	S. Sipit Lahu.	P.Ag	1	0.4	3	2	D.G.
2222	PNH29	Pulau Timbun Mata	S. Kalumpang	P.Ag	1	0.5	2	2	P.B.
2223	PNH30	Mostyn	S. Kalumpang	I.Ba	1	1.0	2	1	B.G.
2224	PNH31	Mostyn	S. Kalumpang	KPCS	1	0.5	2	1	B.G.
2225	PNH32	Mostyn	S. Kalumpang	P.Ag	2	1.5	2	2	D.B.
2226	PNH33	Mostyn	S. Kalumpang	KPCS	1	0.8	3	3	P.B.
2227	PNH34	Mostyn	S. Kalumpang	P.Ag	2	1.5	1	3	P.B.
2228	PNH35	Pulau Timbun Mata	S. Sipit Lahu.	KPCS	1	1.0	1	1	G.
2229	PNH36	Pulau Timbun Mata	S. Sipit Lahu.	KPCS	1	1.0	2	2	Y.B.
2230	PNH37	Pulau Timbun Mata	S. Sipit Lahu.	KPCS	1	1.2	2	2	B.Y.
2231	PNH38	Mostyn	S. Kalumpang	I.Ba	2	2.5	3	3	P.B.
2232	PNH39	Mostyn	S. Kalumpang	basalt	1	0.5	2	2	Y.B.
2233	PNH40	Mostyn	S. Kalumpang	basalt	1	2.0	2	3	D.B.
2234	PNH41	Mostyn	S. Kalumpang	basalt	2	2.0	1	2	G.
2235	PNH42	Mostyn	S. Kalumpang	P.Ag	2	2.5	3	3	D.B.
2236	PNH43	Mostyn	S. Kalumpang	I.Ba	2	0.5	3	2	D.B.
2237	PNH44	Mostyn	S. Kalumpang	P.Ag	1	0.7	1	3	B.Y.
2238	PNH45	Mostyn	S. Kalumpang	P.Ag	1	0.4	2	3	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow $\frac{m^3}{s}$	Size $\frac{mm}{\phi}$	Color
2171	PNg21	Pulau Timbun Mata	S. Atas	I.Ba	2	4.0	2	2	D.B.
2172	PNg22	Pulau Timbun Mata	S. Atas	Q <sub>2</sub>	1	1.5	2	3	B.
2173	PNg23	Pulau Timbun Mata	S. Atas	Q <sub>2</sub>	1	1.0	2	3	Y.B.
2174	PNg24	Pulau Timbun Mata	S. Atas	KPCS	2	4.0	3	2	B.
2175	PNg25	Pulau Timbun Mata	S. Atas	KPCS	2	0.8	3	2	D.B.
2176	PNg26	Pulau Timbun Mata	S. Atas	KPCS	2	1.2	3	2	D.B.
2177	PNg27	Pulau Timbun Mata	S. Atas	KPCS	1	0.8	3	1	B.
2178	PNg28	Pulau Timbun Mata	S. Atas	KPCS	1	1.2	3	2	D.B.
2179	PNg29	Pulau Timbun Mata	S. Atas	KPCS	1	0.8	0	2	D.B.
2180	PNg30	Pulau Timbun Mata	S. Atas	Q <sub>2</sub>	1	3.5	2	4	D.B.
2181	PNg31	Pulau Timbun Mata	S. Sapang	Q <sub>2</sub>	1	1.4	1	3	P.B.
2182	PNg32	Pulau Timbun Mata	S. Sapang	P.Ag	1	0.5	1	3	B.
2183	PNg33	Pulau Timbun Mata	S. Sapang	Q <sub>2</sub>	3	2.5	2	3	D.B.
2184	PNg34	Mostyn	S. Kalumpang	I.Ba	1	1.5	2	2	B.G.
2185	PNg35	Mostyn	S. Kalumpang	I.Ba	1	0.7	2	2	B.G.
2186	PNg36	Pulau Timbun Mata	S. Sapang	KPCS	1	0.8	2	2	B.
2187	PNg37	Pulau Timbun Mata	S. Sapang	KPCS	1	1.0	2	2	B.
2188	PNg38	Mostyn	S. Atas	KPCS	1	0.4	1	3	B.
2189	PNg39	Mostyn	S. Atas	KPCS	1	0.5	2	2	D.B.
2190	PNg40	Mostyn	S. Atas	KPCS	1	1.5	2	2	D.B.
2191	PNg41	Mostyn	S. Atas	Ub	1	1.5	3	2	D.G.
2192	PNg42	Mostyn	S. Atas	I.Ba	1	0.7	1	2	D.G.
2193	PNg43	Mostyn	S. Kalumpang	I.Ba	1	1.0	3	2	D.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow $\frac{m^3}{s}$	Size $\frac{mm}{\phi}$	Color
2239	PNJ01	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	1	G.
2240	PNJ02	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	1	G.
2241	PNJ03	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	1	G.
2242	PNJ04	Mostyn	S. Kalumpang	P.Ag	2	3.0	2	1	G.
2243	PNJ05	Mostyn	S. Kalumpang	P.Ag	4	30.0	4	1	G.
2244	PNJ06	Mostyn	S. Kalumpang	P.Ag	1	2.0	3	1	G.
2245	PNJ07	Mostyn	S. Kalumpang	P.Ag	2	3.0	2	1	G.
2246	PNJ08	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	2	B.
2247	PNJ09	Mostyn	S. Tundong	P.Ag	3	5.0	3	1	B.
2248	PNJ10	Mostyn	S. Tundong	P.Ag	1	3.0	2	2	B.
2249	PNJ11	Mostyn	S. Tundong	P.Ag	3	5.0	3	1	Y.B.
2250	PNJ12	Mostyn	S. Buroong	P.Ag	1	5.0	3	1	B.
2251	PNJ13	Mostyn	S. Tundong	P.Ag	3	5.0	3	1	B.
2252	PNJ14	Apas-Balang	S. Pang Buroong	P.Ag	2	4.0	2	2	G.B.
2253	PNJ15	Apas-Balang	S. Pang Buroong	P.Ag	3	6.0	2	2	G.B.
2254	PNJ16	Apas-Balang	S. Pang Buroong	P.Ag	3	8.0	2	1	B.
2255	PNJ17	Apas-Balang	S. Pang Buroong	P.Ag	2	6.0	3	1	B.
2256	PNJ18	Apas-Balang	S. Pang Buroong	Q <sub>2</sub>	3	8.0	2	3	Y.B.
2257	PNJ19	Apas-Balang	S. Kalumpang	P.Ag	2	6.0	3	3	B.
2258	PNJ20	Apas-Balang	S. Kalumpang	P.Ag	1	0.5	2	3	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow $\frac{m^3}{s}$	Size $\frac{mm}{\phi}$	Color
2194	PNi01	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	2	Y.B.
2195	PNi02	Mostyn	S. Kalumpang	P.Ag	1	3.0	3	2	Y.B.
2196	PNi03	Mostyn	S. Kalumpang	P.Ag	1	3.5	1	2	Y.B.
2197	PNi04	Mostyn	S. Kalumpang	P.Ag	3	6.0	4	1	Y.B.
2198	PNi05	Mostyn	S. Kalumpang	P.Ag	3	4.0	2	2	Y.B.
2199	PNi06	Mostyn	S. Kalumpang	P.Ag	1	3.0	2	2	Y.B.
2200	PNi07	Mostyn	S. Kalumpang	P.Ag	1	2.0	3	2	Y.B.
2201	PNi08	Mostyn	S. Kalumpang	P.Ag	1	2.0	2	2	Y.B.
2202	PNi09	Mostyn	S. Kalumpang	P.Ag	1	7.0	2	3	Y.B.
2203	PNi10	Mostyn	S. Kalumpang	P.Ag	3	3.0	3	1	Y.B.
2204	PNi11	Mostyn	S. Kalumpang	P.Ag	2	1.5	1	2	Y.B.
2205	PNi12	Pulau Timbun Mata	S. Sipit Lahu.	KPCS	1	3.0	2	1	B.
2206	PNi13	Pulau Timbun Mata	S. Sipit Lahu.	P.Ag	1	3.0	2	1	Y.B.
2207	PNi14	Pulau Timbun Mata	S. Sipit Lahu.	P.Ag	1	1.0	2	1	Y.B.
2208	PNi15	Pulau Timbun Mata	S. Sipit Lahu.	P.Ag	2	2.0	1	2	Y.B.
2209	PNi16	Pulau Timbun Mata	S. Sipit Lahu.	P.Ag	1	2.0	2	2	B.
2210	PNi17	Mostyn	S. Kalumpang	s.s./silt.	1	1.5	1	1	Y.B.
2211	PNi18	Mostyn	S. Kalumpang	KPCS	1	1.0	2	3	G.B.
2212	PNi19	Mostyn	S. Kalumpang	I.Ba	2	5.0	3	3	B.
2213	PNi20	Mostyn	S. Kalumpang	I.Ba	2	5.0	4	3	Y.B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2259	PNJ21	Apas-Balang	S. Kalumpang	---	P.Kg	2	4.0	2	3	B.
2260	PNJ22	Apas-Balang	S. Kalumpang	---	Qz	2	5.0	2	3	D.B.
2261	PNJ23	Apas-Balang	S. Kalumpang	---	Qz	1	0.6	1	2	B.
2262	PNJ24	Apas-Balang	S. Kalumpang	---	Qz	1	1.0	1	3	B.
2263	PNJ25	Pulau Timbun Mata	S. Sipit	---	P.Kg	2	2.0	4	3	B.Y.
2264	PNJ26	Apas-Balang	S. Kalumpang	---	Qz	4	18.0	2	3	Y.B.
2265	PNJ27	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	1.0	2	3	Y.B.
2266	PNJ28	Pulau Timbun Mata	S. Sipit	---	P.Kg	2	3.0	4	2	B.Y.
2267	PNJ29	Pulau Timbun Mata	S. Sipit	---	P.Kg	2	2.0	4	2	B.Y.
2268	PNJ30	Pulau Timbun Mata	S. Sipit	---	Qz	1	0.8	3	2	Y.B.
2269	PNJ31	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	1.0	2	3	B.Y.
2270	PNJ32	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	0.5	2	3	B.Y.
2271	PNJ33	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	0.8	3	2	B.Y.
2272	PNJ34	Kalumpang	---	---	Qz	1	2.5	2	2	B.Y.
2273	PNJ35	Kalumpang	---	---	Qz	2	2.0	2	2	B.Y.
2274	PNJ36	Kalumpang	---	---	Qz	1	0.5	1	2	B.Y.
2275	PNJ37	Kalumpang	---	---	Qz	1	1.0	2	2	B.Y.
2276	PNJ38	Kalumpang	---	---	Qz	1	2.0	2	2	B.Y.
2277	PNJ39	Kalumpang	---	---	Qz	1	0.5	1	1	B.Y.
2278	PNJ40	Kalumpang	---	---	Qz	1	2.0	2	2	B.Y.
2279	PNJ41	Kalumpang	---	---	Qz	1	1.5	2	3	Y.B.
2280	PNJ42	Kalumpang	---	---	Qz	1	2.5	2	3	Y.B.
2281	PNJ43	Kalumpang	---	---	Qz	1	0.8	3	2	Y.B.
2282	PNJ44	Kalumpang	---	---	Qz	1	0.8	2	3	R.G.
2283	PNJ45	Kalumpang	---	---	Qz	1	3.0	2	2	B.Y.
2284	PNJ46	Apas-Balang	S. Pang Burong	tuff	Is.Ba	1	3.0	2	2	B.Y.
2285	PNJ47	Apas-Balang	S. Pang Burong	---	P.Kg	3	10.0	0	2	B.
2286	PNJ48	Apas-Balang	S. Pang Burong	---	P.Kg	3	6.0	0	3	B.
2287	PNJ49	Apas-Balang	S. Pang Burong	---	P.Kg	3	3.0	0	3	B.
2288	PNJ50	Apas-Balang	S. Tundong	---	P.Kg	1	2.0	0	3	Y.B.
2289	PNJ51	Westyn	S. Tundong	---	P.Kg	1	1.0	0	4	Y.B.
2290	PNJ52	Westyn	S. Kalumpang	---	P.Kg	1	1.0	0	3	Y.B.
2291	PNJ53	Westyn	S. Kalumpang	---	P.Kg	1	3.0	0	2	Y.B.
2292	PNJ54	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	0.5	2	3	Y.B.
2293	PNJ55	Pulau Timbun Mata	S. Sipit	---	P.Kg	1	0.5	2	3	Y.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2294	PNK01	Apas-Balang	S. Pang Burong	---	Qz	1	2.0	3	3	B.
2295	PNK02	Apas-Balang	S. Pang Burong	---	Qz	2	1.0	1	4	Y.B.
2296	PNK03	Apas-Balang	S. Pang Burong	---	P.Kg	1	3.0	3	4	R.B.
2297	PNK04	Apas-Balang	S. Kalumpang	andesite	Qz	1	1.5	1	4	B.
2298	PNK05	Kalumpang	S. Kalumpang	---	Qz	2	1.5	2	4	Y.B.
2299	PNK06	Kalumpang	S. Kalumpang	---	Qz	1	0.5	2	3	Y.B.
2300	PNK07	Kalumpang	S. Kalumpang	---	Qz	1	1.0	2	3	Y.B.
2301	PNK08	Kalumpang	S. Kalumpang	---	Qz	1	2.5	2	3	Y.B.
2302	PNK09	Kalumpang	S. Kalumpang	---	Qz	1	0.5	2	3	Y.B.
2303	PNK10	Kalumpang	S. Kalumpang	---	Qz	1	0.5	2	2	B.Y.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2304	PNK11	Kalumpang	S. Kalumpang	---	Qz	1	1.0	2	2	B.Y.
2305	PNK12	Kalumpang	S. Kalumpang	---	Qz	2	2.0	2	2	B.Y.
2306	PNK13	Kalumpang	S. Kalumpang	---	Qz	1	1.5	1	3	B.Y.
2307	PNK14	Kalumpang	S. Kalumpang	---	Qz	1	0.5	1	3	B.Y.
2308	PNK15	Kalumpang	S. Kalumpang	---	Qz	2	1.5	1	3	B.Y.
2309	PNK16	Kalumpang	S. Kalumpang	---	Qz	1	0.5	1	3	B.Y.
2310	PNK17	Kalumpang	S. Kalumpang	---	Qz	1	1.0	2	3	B.Y.
2311	PNK18	Apas-Balang	S. Burong	---	Qz	1	1.0	0	4	R.B.
2312	PNK19	Apas-Balang	S. Burong	---	Qz	1	1.0	0	4	R.B.
2313	PNK20	Apas-Balang	S. Payan	---	Qz	1	12.0	0	4	B.
2314	PNK21	Apas-Balang	S. Pang Burong	---	Qz	1	1.5	3	4	L.B.
2315	PNK22	Apas-Balang	S. Pang Burong	---	Qz	4	12.0	3	2	G.
2316	PNK23	Kalumpang	S. Kalumpang	---	Qz	1	0.5	2	3	B.
2317	PNK24	Kalumpang	S. Kalumpang	---	Qz	1	0.8	2	3	Y.B.
2318	PNK25	Apas-Balang	S. Pang Burong	---	P.Kg	1	0.7	0	3	B.Y.
2319	PNK26	Apas-Balang	S. Pang Burong	---	P.Kg	1	0.8	2	3	B.Y.
2320	PNK27	Apas-Balang	S. Pang Burong	---	P.Kg	1	0.6	3	2	B.
2321	PNK28	Apas-Balang	S. Payan	---	Qz	1	0.4	1	4	B.Y.
2322	PNK29	Apas-Balang	S. Pang Burong	---	Qz	1	0.8	0	3	B.Y.
2323	PNK30	Apas-Balang	S. Burong	---	Qz	1	0.4	2	3	R.B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2324	PNM01	Apas-Balang	S. Burong	---	Qz	1	1.0	1	4	B.
2325	PNM02	Apas-Balang	S. Burong	---	Qz	1	1.0	1	4	B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Flow Size #2	Color
2326	PPG01	Pulau Timbun Mata	---	sandstone	P.Kg	1	0.6	2	2	R.B.
2327	PPG02	Pulau Timbun Mata	---	---	P.Kg	1	1.5	0	3	B.
2328	PPG03	Pulau Timbun Mata	---	---	P.Kg	1	3.0	2	3	Y.B.
2329	PPG04	Pulau Timbun Mata	---	---	R.Ps	1	0.8	2	3	B.Y.
2330	PPG05	Pulau Timbun Mata	---	green rock	R.Ps	1	0.3	1	3	P.B.
2331	PPG06	Pulau Timbun Mata	S. Sapang	green rock	R.Ps	3	3.5	3	2	D.B.

\*1: none(0), puddle(1), slow(2), moderate(3), fast(4)  
 \*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
2332	PPH01	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	1.5	1	2	B.
2333	PPH02	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	2	2.0	1	1	B.
2334	PPH03	Pulau Timbun Mata	---	---	P. Ag	1	2.0	1	1	Y. B.
2335	PPH04	Pulau Timbun Mata	---	---	P. Ag	1	2.0	1	1	Y. B.
2336	PPH05	Pulau Timbun Mata	---	---	P. Ag	1	2.0	1	1	Y. B.
2337	PPH06	Pulau Timbun Mata	---	---	P. Ag	2	2.0	2	1	Y. B.
2338	PPH07	Pulau Timbun Mata	---	conglomerate	P. Ag	1	2.0	2	1	Y. B.
2339	PPH08	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	1.5	1	1	Y. B.
2340	PPH09	Pulau Timbun Mata	S. Sipit Labu.	---	Q <sub>z</sub>	2	3.0	2	1	Y. B.
2341	PPH10	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	1.0	0	1	Y. B.
2342	PPH11	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	3.0	2	2	R. B.
2343	PPH12	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	1.0	1	3	R. B.
2344	PPH13	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.8	1	2	B. Y.
2345	PPH14	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	1.5	2	3	Y. B.
2346	PPH15	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.8	2	3	Y. B.
2347	PPH16	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.5	2	3	Y. B.
2348	PPH17	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	1.5	2	3	Y. B.
2349	PPH18	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.8	2	3	Y. B.
2350	PPH19	Pulau Timbun Mata	---	---	P. Ag	1	0.8	2	3	R. B.
2351	PPH20	Pulau Timbun Mata	---	---	P. Ag	1	0.8	2	3	R. B.
2352	PPH21	Pulau Timbun Mata	---	---	P. Ag	1	1.5	3	3	B. Y.
2353	PPH22	Pulau Timbun Mata	---	---	P. Ag	2	2.5	3	3	B. Y.
2354	PPH23	Pulau Timbun Mata	S. Sipit Labu.	---	Q <sub>z</sub>	3	3.5	3	3	B.
2355	PPH24	Pulau Timbun Mata	S. Sipit Labu.	---	Q <sub>z</sub>	3	6.0	2	3	B.
2356	PPH25	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	2	2.0	2	3	B.
2357	PPH26	Pulau Timbun Mata	---	---	P. Ag	2	1.0	2	3	Y. B.
2358	PPH27	Pulau Timbun Mata	---	---	P. Ag	1	0.8	2	4	P. B.
2359	PPH28	Pulau Timbun Mata	---	---	P. Ag	1	0.5	2	4	B.
2360	PPH29	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	0.4	3	2	B.
2361	PPH30	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	0.8	3	2	B.
2362	PPH31	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	0.8	2	1	B.
2363	PPH32	Pulau Timbun Mata	S. Sipit Labu.	---	P. Ag	1	1.0	2	2	B. Y.
2364	PPH33	Pulau Timbun Mata	---	tfc. s.s.	P. Ag	1	0.7	1	3	B. Y.
2365	PPH34	Pulau Timbun Mata	---	tfc. s.s.	P. Ag	3	5.0	2	4	D. B.
2366	PPH35	Pulau Timbun Mata	---	---	Q <sub>z</sub>	3	60.0	2	2	B.
2367	PPH36	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	1.5	2	2	B.
2368	PPH37	Pulau Timbun Mata	---	---	P. Ag	2	1.5	2	2	B.
2369	PPH38	Pulau Timbun Mata	---	---	P. Ag	2	1.7	2	2	B.
2370	PPH39	Pulau Timbun Mata	---	---	P. Ag	1	0.7	1	2	B.
2371	PPH40	Pulau Timbun Mata	---	---	P. Ag	1	1.5	3	2	Y. B.
2372	PPH41	Pulau Timbun Mata	---	---	P. Ag	1	0.4	2	3	P. B.
2373	PPH42	Pulau Timbun Mata	---	---	P. Ag	1	0.5	2	2	P. B.
2374	PPH43	Pulau Timbun Mata	---	---	P. Ag	1	0.6	2	2	D. B.
2375	PPH44	Pulau Timbun Mata	---	---	P. Ag	1	0.5	2	2	D. B.
2376	PPH45	Pulau Timbun Mata	---	---	P. Ag	2	0.9	2	2	D. B.
2377	PPH46	Pulau Timbun Mata	---	---	P. Ag	2	0.9	2	2	D. B.
2378	PPH47	Pulau Timbun Mata	---	---	P. Ag	2	2.5	2	2	D. B.
2379	PPH48	Pulau Timbun Mata	---	---	P. Ag	1	0.6	3	2	D. B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow	Size	Color
2380	PPJ01	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	4.0	4	3	B. Y.
2381	PPJ02	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	5.0	4	3	B. Y.
2382	PPJ03	Pulau Timbun Mata	S. Sipit	---	P. Ag	3	3.0	2	3	Y. B.
2383	PPJ04	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	2.0	2	2	B.
2384	PPJ05	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	2.0	1	2	B.
2385	PPJ06	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	1.2	1	3	B.
2386	PPJ07	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	6.0	2	3	B.
2387	PPJ08	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	4.0	2	3	B.
2388	PPJ09	Pulau Timbun Mata	S. Sipit	---	P. Ag	3	5.5	3	1	Y. B.
2389	PPJ10	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	2.0	2	1	B.
2390	PPJ11	Pulau Timbun Mata	S. Sipit	---	P. Ag	3	3.0	2	3	Y. B.
2391	PPJ12	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	2.0	2	2	Y. B.
2392	PPJ13	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.8	2	3	L. B.
2393	PPJ14	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.4	1	4	R. B.
2394	PPJ15	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	1.0	2	2	B.
2395	PPJ16	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	2.0	1	4	B.
2396	PPJ17	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	5.0	2	2	Y. B.
2397	PPJ18	Pulau Timbun Mata	S. Sipit	---	Q <sub>z</sub>	2	2.5	2	2	Y. B.
2398	PPJ19	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	1.0	2	3	Y. B.
2399	PPJ20	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	1.0	2	4	Y. B.
2400	PPJ21	Pulau Timbun Mata	S. Sipit	---	P. Ag	1	0.5	1	4	Y. B.
2401	PPJ22	Pulau Timbun Mata	S. Sipit	---	P. Ag	2	2.5	2	3	Y. B.
2402	PPJ23	Kalumpang	S. Sipit	---	L. Ba	1	1.0	1	2	R. Y.
2403	PPJ24	Kalumpang	S. Sipit	---	Q <sub>z</sub>	1	4.0	1	3	B. Y.
2404	PPJ25	Kalumpang	S. Sipit	---	L. Ba	2	4.0	2	2	B. Y.
2405	PPJ26	Kalumpang	S. Sipit	---	L. Ba	2	0.5	1	3	B. Y.
2406	PPJ27	Kalumpang	S. Sipit	---	L. Ba	1	0.5	1	3	B. Y.
2407	PPJ28	Kalumpang	S. Sipit	---	Q <sub>z</sub>	2	4.0	0	3	B. G.
2408	PPJ29	Kalumpang	S. Sipit	---	L. Ba	1	0.5	0	3	B. G.
2409	PPJ30	Kalumpang	S. Sipit	---	L. Ba	1	4.0	2	2	Y. B.
2410	PPJ31	Kalumpang	S. Sipit	---	L. Ba	1	4.0	2	2	Y. B.
2411	PPJ32	Kalumpang	S. Sipit	---	L. Ba	2	2.0	2	2	B. Y.
2412	PPJ33	Kalumpang	S. Sipit	---	P. Ag	1	1.5	2	3	B. G.
2413	PPJ34	Kalumpang	S. Sipit	---	P. Ag	1	0.5	1	3	B. G.
2414	PPJ35	Kalumpang	S. Sipit	---	P. Ag	2	1.0	1	1	B. G.
2415	PPJ36	Kalumpang	S. Sipit	---	L. Ba	1	0.4	2	2	L. B.
2416	PPJ37	Kalumpang	S. Sipit	---	L. Ba	1	1.5	2	2	L. B.
2417	PPJ38	Kalumpang	S. Sipit	---	L. Ba	1	0.8	2	2	B.
2418	PPJ39	Kalumpang	S. Sipit	---	P. Ag	1	0.5	3	2	B.
2419	PPJ40	Kalumpang	S. Sipit	---	P. Ag	2	3.0	1	2	B.
2420	PPJ41	Kalumpang	S. Sipit	---	L. Ba	1	4.0	2	2	B. Y.
2421	PPJ42	Kalumpang	S. Sipit	---	P. Ag	2	2.0	2	2	B. Y.
2422	PPJ43	Kalumpang	S. Sipit	---	P. Ag	1	1.5	2	2	B. Y.
2423	PPJ44	Kalumpang	S. Sipit	---	L. Ba	1	2.0	1	3	B. G.
2424	PPJ45	Kalumpang	S. Sipit	---	Q <sub>z</sub>	1	3.5	1	2	B. G.
2425	PPJ46	Kalumpang	S. Sipit	---	Q <sub>z</sub>	1	3.0	3	3	Y. B.
2426	PPJ47	Kalumpang	S. Sipit	---	L. Ba	1	1.5	3	2	Y. B.
2427	PPJ48	Kalumpang	S. Sipit	---	L. Ba	1	1.0	3	2	D. B.
2428	PPJ49	Kalumpang	S. Sipit	---	L. An	1	0.5	3	1	B.
2429	PPJ50	Kalumpang	S. Sipit	---	L. An	2	1.5	2	2	B.
2430	PPJ51	Kalumpang	S. Sipit	---	P. Ag	1	1.0	2	1	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)



Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
2430	PPJ51	Kalumpang	S. G. Gading	P.Kg	1	0.8	3	2	B. Y.
2431	PPJ52	Pulau Timbau Mata	S. Sinit	I.Ba	1	0.5	2	2	B. Y.
2432	PPJ53	Pulau Timbau Mata	S. Sinit	P.Kg	1	0.4	2	2	B. Y.
2433	PPJ54	Pulau Timbau Mata	S. Sinit	P.Kg	1	0.5	1	2	L. B.

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
2434	PPK01	Kalumpang	S. Pincang B.	Q <sub>1</sub>	2	1.5	3	2	Y. B.
2435	PPK02	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	1.0	3	2	Y. B.
2436	PPK03	Kalumpang	S. Pincang B.	P.Kg	1	1.5	2	2	B. Y.
2437	PPK04	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	1.5	0	3	R. Y.
2438	PPK05	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	3.0	2	3	B. Y.
2439	PPK06	Kalumpang	S. Pincang B.	Q <sub>1</sub>	2	2.5	2	3	B. Y.
2440	PPK07	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	0.4	2	3	B. G.
2441	PPK08	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	0.5	1	3	B. G.
2442	PPK09	Kalumpang	S. Pincang B.	Q <sub>1</sub>	1	1.8	2	3	B. Y.
2443	PPK10	Kalumpang	S. Pincang B.	I.An	1	1.8	2	3	B. Y.
2444	PPK11	Kalumpang	S. G. Gading	P.Kg	1	0.7	2	2	Y. B.
2445	PPK12	Kalumpang	S. G. Gading	P.Kg	2	0.3	2	2	Y. B.
2446	PPK13	Kalumpang	S. G. Gading	Q <sub>1</sub>	2	1.5	2	2	B. Y.
2447	PPK14	Kalumpang	S. G. Gading	I.An	1	0.5	2	2	B. G.
2448	PPK15	Kalumpang	S. G. Gading	P.Kg	2	3.0	3	2	B. G.
2449	PPK16	Kalumpang	S. Timbangan	P.Kg	2	3.0	3	2	B. Y.
2450	PPK17	Kalumpang	S. Timbangan	P.Kg	2	3.0	3	2	B. Y.
2451	PPK18	Kalumpang	S. Timbangan	I.Ba	1	0.8	1	2	B. Y.
2452	PPK19	Kalumpang	S. Timbangan	I.Ba	1	1.5	1	2	B. Y.
2453	PPK20	Kalumpang	S. Timbangan	I.An	1	0.5	1	2	B. Y.
2454	PPK21	Kalumpang	S. Timbangan	I.Ba	1	2.0	1	4	G. B.
2455	PPK22	Kalumpang	S. Pincang B.	Q <sub>1</sub>	3	3.0	3	3	B. G.
2456	PPK23	Kalumpang	S. Timbangan	I.Ba	1	2.0	2	3	B. Y.
2457	PPK24	Kalumpang	S. Timbangan	I.Ba	1	1.0	2	2	B. G.
2458	PPK25	Kalumpang	S. Timbangan	I.Ba	2	7.0	2	2	B. Y.
2459	PPK26	Kalumpang	S. Timbangan	I.An	1	2.0	2	3	B. Y.
2460	PPK27	Kalumpang	S. Timbangan	I.An	2	2.5	2	3	Y. B.
2461	PPK28	Kalumpang	S. Timbangan	I.An	1	0.8	2	3	Y. B.
2462	PPK29	Kalumpang	S. Timbangan	I.An	1	1.2	2	2	B. Y.
2463	PPK30	Kalumpang	S. G. Gading	Q <sub>1</sub>	3	8.0	2	2	B. Y.
2464	PPK31	Kalumpang	S. G. Gading	I.An	1	0.7	1	3	D. B.
2465	PPK32	Kalumpang	S. G. Gading	Q <sub>1</sub>	3	6.0	2	3	B. Y.
2466	PPK33	Kalumpang	S. G. Gading	Q <sub>1</sub>	1	1.0	2	2	B. Y.
2467	PPK34	Kalumpang	S. G. Gading	I.An	1	0.5	2	2	B. Y.
2468	PPK35	Kalumpang	S. G. Gading	I.An	1	1.0	2	2	B. Y.
2469	PPK36	Kalumpang	S. G. Gading	Q <sub>1</sub>	2	4.0	2	2	B. Y.
2470	PPK37	Kalumpang	S. G. Gading	I.An	1	2.0	2	2	B. Y.
2471	PPK38	Kalumpang	S. G. Gading	I.An	1	1.0	2	2	B. Y.
2472	PPK39	Kalumpang	S. G. Gading	I.An	1	1.5	2	2	B. Y.
2473	PPK40	Kalumpang	S. G. Gading	I.An	1	2.0	2	2	B. Y.
2474	PPK41	Kalumpang	S. G. Gading	Q <sub>1</sub>	1	1.0	0	4	D. G.
2475	PPK42	Kalumpang	S. G. Gading	Q <sub>1</sub>	1	0.5	1	3	B. Y.
2476	PPK43	Kalumpang	S. G. Gading	Q <sub>1</sub>	3	4.5	3	2	B. Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geol. Unit	Order	Width (m)	Flow	Size	Color
2477	PQJ01	Pulau Timbau Mata	S. Separang	Q <sub>1</sub>	1	4.0	2	2	B. Y.
2478	PQJ02	Pulau Timbau Mata	S. Separang	P.Kg	2	4.0	2	2	D. B.
2479	PQJ03	Pulau Timbau Mata	S. Separang	P.Kg	1	4.0	2	2	B. Y.
2480	PQJ04	Pulau Timbau Mata	S. Separang	P.Kg	1	3.0	2	3	B. Y.
2481	PQJ05	Pulau Timbau Mata	S. Separang	P.Kg	1	1.5	1	3	B. Y.
2482	PQJ06	Pulau Timbau Mata	S. Separang	P.Kg	3	1.0	2	2	B. Y.
2483	PQJ07	Pulau Timbau Mata	S. Separang	P.Kg	3	1.5	2	2	Y. B.
2484	PQJ08	Pulau Timbau Mata	S. Sing Sing	Q <sub>1</sub>	1	1.0	2	2	B. Y.
2485	PQJ09	Pulau Timbau Mata	S. Sing Sing	Q <sub>1</sub>	2	2.0	2	2	Y. B.
2486	PQJ10	Pulau Timbau Mata	S. Sing Sing	Q <sub>1</sub>	1	0.5	2	4	G.
2487	PQJ11	Kalumpang	S. Separang	P.Kg	3	4.5	2	2	Y. B.
2488	PQJ12	Kalumpang	S. Separang	P.Kg	3	4.0	2	3	Y. B.
2489	PQJ13	Kalumpang	S. Separang	P.Kg	2	2.5	2	2	B. Y.
2490	PQJ14	Kalumpang	S. Separang	P.Kg	2	3.0	2	3	B. Y.
2491	PQJ15	Kalumpang	S. Separang	I.An	2	2.0	2	2	R. B.
2492	PQJ16	Kalumpang	S. Separang	I.An	2	1.5	2	3	B. Y.
2493	PQJ17	Kalumpang	S. Separang	I.An	2	2.0	2	3	B. Y.
2494	PQJ18	Kalumpang	S. Separang	I.An	1	2.0	2	2	Y. B.
2495	PQJ19	Kalumpang	S. Separang	I.Da	1	2.0	4	1	B.
2496	PQJ20	Kalumpang	S. Separang	I.Da	1	1.5	3	2	B.
2497	PQJ21	Kalumpang	S. Separang	P.Kg	2	2.0	2	3	B. Y.
2498	PQJ22	Kalumpang	S. Separang	I.An	1	4.0	1	3	B. Y.
2499	PQJ23	Kalumpang	S. Separang	I.An	1	1.5	2	3	B. Y.
2500	PQJ24	Kalumpang	S. Separang	I.An	1	4.0	2	3	B. Y.
2501	PQJ25	Kalumpang	S. Separang	Q <sub>1</sub>	1	0.5	1	4	Y. B.
2502	PQJ26	Kalumpang	S. Separang	I.An	1	2.0	2	3	B. Y.
2503	PQJ27	Kalumpang	S. Separang	I.An	1	2.0	2	3	B. Y.
2504	PQJ28	Kalumpang	S. Separang	P.Kg	1	1.5	2	2	B. Y.
2505	PQJ29	Kalumpang	S. Sing Sing	P.Kg	1	0.5	1	3	B. Y.
2506	PQJ30	Kalumpang	S. Sing Sing	P.Kg	1	0.5	1	3	B. Y.
2507	PQJ31	Kalumpang	S. Gading	I.An	1	0.5	2	2	D. B.
2508	PQJ32	Kalumpang	S. Gading	I.An	1	1.0	3	1	D. B.
2509	PQJ33	Kalumpang	S. Gading	Q <sub>1</sub>	2	1.5	2	2	D. B.
2510	PQJ34	Kalumpang	S. Gading	Q <sub>1</sub>	2	3.0	3	1	D. B.
2511	PQJ35	Kalumpang	S. Gading	I.An	1	3.0	2	3	B. Y.
2512	PQJ36	Kalumpang	S. Gading	I.An	1	1.0	1	3	B. Y.
2513	PQJ37	Kalumpang	S. Gading	I.An	1	1.0	2	3	B. G.
2514	PQJ38	Pulau Timbau Mata	S. Separang	Q <sub>1</sub>	1	0.5	1	3	Y. B.
2515	PQJ39	Kalumpang	S. Separang	Q <sub>1</sub>	1	0.8	2	2	D. B.
2516	PQJ40	Kalumpang	S. Separang	I.An	1	0.5	2	1	D. B.
2517	PQJ41	Kalumpang	S. Gading	Q <sub>1</sub>	1	0.5	3	2	B.
2518	PQJ42	Kalumpang	S. Gading	Q <sub>1</sub>	1	0.4	2	2	Y. B.
2519	PQJ43	Kalumpang	S. Gading	Q <sub>1</sub>	1	1.0	0	2	B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
 \*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Semporna Area Grid: P0M

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
2566	P0M01	Kalumpang	---	---	I-An	1	0.8	1	3	R.B.

Area: Semporna Area Grid: P0J

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
2567	PRJ01	Kalumpang	S. Gading	---	Q <sub>2</sub>	2	6.0	2	3	D.B.
2568	PRJ02	Kalumpang	S. Gading	---	Q <sub>1</sub>	2	1.8	2	1	D.B.

Area: Semporna Area Grid: P0K

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
2569	PRK01	Kalumpang	S. Pegazau	---	Q <sub>1</sub>	2	4.5	2	3	L.B.
2570	PRK02	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	1	0.6	1	2	L.B.
2571	PRK03	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	2	15.0	2	4	G.
2572	PRK04	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	1	0.5	1	3	B.
2573	PRK05	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	1	0.5	1	3	Y.B.
2574	PRK06	Kalumpang	S. Pegazau	---	Q <sub>1</sub>	1	0.5	1	3	L.B.
2575	PRK07	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	1	0.8	1	4	Y.B.
2576	PRK08	Kalumpang	S. Pegazau	---	Q <sub>2</sub>	1	0.5	1	3	B.
2577	PRK09	Kalumpang	S. Gading	---	Q <sub>1</sub>	1	0.6	1	2	B.Y.
2578	PRK10	Kalumpang	S. Pegazau	---	Q <sub>1</sub>	1	0.7	2	3	B.Y.
2579	PRK11	Kalumpang	S. Pegazau	---	Q <sub>1</sub>	1	0.5	2	4	B.Y.
2580	PRK12	Kalumpang	S. Pegazau	---	Q <sub>1</sub>	1	0.4	2	3	B.Y.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

Area: Semporna Area Grid: P0K

Ser. No.	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Width (m)	Flow #1	Size #2	Color
2520	P0K01	Kalumpang	S. Timbangan	---	I-In	1	0.5	2	3	B.
2521	P0K02	Kalumpang	---	---	Q <sub>1</sub>	1	1.0	1	3	G.
2522	P0K03	Kalumpang	---	---	I-An	1	1.0	4	2	Y.B.
2523	P0K04	Kalumpang	S. Gading	---	I-An	1	2.0	2	3	B.Y.
2524	P0K05	Kalumpang	S. Gading	---	I-An	1	1.5	2	3	B.Y.
2525	P0K06	Kalumpang	S. Gading	---	I-An	2	2.0	2	3	B.Y.
2526	P0K07	Kalumpang	S. Gading	---	I-An	2	2.0	2	3	B.Y.
2527	P0K08	Kalumpang	S. Gading	---	Q <sub>1</sub>	3	3.0	3	3	B.Y.
2528	P0K09	Kalumpang	S. Gading	---	Q <sub>1</sub>	3	3.5	2	3	B.
2529	P0K10	Kalumpang	S. Timbangan	---	I-In	1	0.5	2	3	B.
2530	P0K11	Kalumpang	S. Timbangan	---	I-In	1	0.4	2	3	D.B.
2531	P0K12	Kalumpang	S. Timbangan	---	I-In	2	1.0	2	3	B.
2532	P0K13	Kalumpang	S. Timbangan	---	I-In	1	0.5	0	3	B.
2533	P0K14	Kalumpang	S. Timbangan	---	I-In	1	0.5	1	3	B.
2534	P0K15	Kalumpang	S. Mantaritip	---	I-An	1	0.5	2	3	B.Y.
2535	P0K16	Kalumpang	S. Mantaritip	---	I-An	1	2.0	2	2	B.Y.
2536	P0K17	Kalumpang	S. Mantaritip	---	I-An	1	2.0	2	2	B.Y.
2537	P0K18	Kalumpang	S. Mantaritip	---	I-An	1	2.0	2	2	B.Y.
2538	P0K19	Kalumpang	S. Mantaritip	---	I-An	2	2.0	2	2	B.Y.
2539	P0K20	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	2	3.0	2	3	B.Y.
2540	P0K21	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	2	2.0	2	3	B.G.
2541	P0K22	Kalumpang	---	---	I-De	1	0.8	4	2	L.B.
2542	P0K23	Kalumpang	---	---	Q <sub>1</sub>	1	1.2	2	3	L.B.
2543	P0K24	Kalumpang	---	---	I-An	1	1.5	2	3	B.Y.
2544	P0K25	Kalumpang	---	---	I-An	1	3.0	2	3	B.Y.
2545	P0K26	Kalumpang	---	---	Q <sub>1</sub>	1	1.0	2	3	B.Y.
2546	P0K27	Kalumpang	---	---	Q <sub>1</sub>	2	3.0	2	3	B.Y.
2547	P0K28	Kalumpang	---	---	Q <sub>1</sub>	1	1.0	2	3	B.Y.
2548	P0K29	Kalumpang	S. Gading	---	Q <sub>1</sub>	1	1.0	2	3	B.Y.
2549	P0K30	Kalumpang	---	---	Q <sub>1</sub>	2	2.0	2	3	B.Y.
2550	P0K31	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	1	2.0	2	4	B.G.
2551	P0K32	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	2	3.6	2	3	B.
2552	P0K33	Kalumpang	S. Mantaritip	sili. and.	I-An	1	1.5	3	2	D.B.
2553	P0K34	Kalumpang	S. Mantaritip	---	I-De	1	0.8	2	2	B.
2554	P0K35	Kalumpang	S. Mantaritip	---	I-An	1	2.5	4	2	D.B.
2555	P0K36	Kalumpang	S. Mantaritip	---	I-An	1	1.5	2	1	D.B.
2556	P0K37	Kalumpang	S. Mantaritip	---	I-An	1	4.0	2	3	B.
2557	P0K38	Kalumpang	S. Mantaritip	altered and.	Q <sub>1</sub>	2	5.0	3	3	B.
2558	P0K39	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	1	1.0	2	3	B.
2559	P0K40	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	2	2.0	2	3	B.
2560	P0K41	Kalumpang	S. Mantaritip	---	Q <sub>1</sub>	2	5.0	2	2	D.B.
2561	P0K42	Kalumpang	---	---	Q <sub>1</sub>	2	1.2	2	3	B.
2562	P0K43	Kalumpang	---	---	Q <sub>1</sub>	1	1.0	2	1	B.
2563	P0K44	Kalumpang	---	---	I-An	1	0.8	2	2	Y.B.
2564	P0K45	Kalumpang	---	---	Q <sub>1</sub>	1	0.8	1	3	B.
2565	P0K46	Kalumpang	---	---	Q <sub>1</sub>	1	0.8	2	3	Y.B.

\*1: none (0), puddle (1), slow (2), moderate (3), fast (4)  
\*2: coarse grained (1), medium grained (2), fine grained (3), clayey (4)

**A p p e n d i x 1 2**

**Analytical results of stream sediment  
geochemical samples in the Semporna area**



List of Geochemical Analysis( 1)

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As ppm	Au bpb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg bpb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
1	PAf01	4705.481	1423.024		2	>	170	17	148	27	40	1.19	.76	72	>	.76	50	4	.095	1.50	70	.34	2.0	>	77
2	PAf02	4708.409	1423.830		5	>	219	20	155	31	37	1.24	.80	109	>	.71	49	8	.166	.50	75	.35	1.8	>	82
3	PAf03	4708.633	1423.707		12	>	247	16	143	31	40	1.26	.74	174	4	.57	50	13	.182	5.90	75	.37	2.2	>	77
4	PAf04	4709.332	1423.666		4	>	297	15	127	47	42	1.56	.93	258	2	.71	55	7	.184	4.20	89	.41	2.2	>	93
5	PAf05	4709.600	1423.771		5	>	287	17	168	45	57	1.14	.77	339	1	.60	53	9	.417	3.40	71	.34	2.4	>	85
6	PAf06	4704.861	1422.579		5	>	144	13	150	23	20	.95	.62	10	>	.61	43	4	.066	1.70	62	.30	1.4	>	71
7	PAf07	4704.946	1422.455		3	>	111	12	206	15	26	.60	.42	5	>	.36	33	3	.057	4.00	46	.24	1.6	>	51
8	PAf08	4705.537	1422.096		8	>	107	10	186	14	14	.58	.38	5	>	.31	29	3	.060	2.40	42	.24	1.4	>	48
9	PAf09	4705.621	1422.240		7	>	165	12	153	23	26	.99	.66	5	>	.54	46	8	.095	5.00	63	.33	1.8	>	76
10	PAf10	4708.260	1420.889		2	>	482	22	141	105	63	1.37	1.01	708	>	.83	61	15	.411	6.60	88	.36	1.8	>	103
11	PAg01	4708.326	1419.862		7	>	314	21	145	45	63	1.14	.97	296	1	.75	55	5	.349	6.40	91	.34	2.0	3	95
12	PAg02	4708.405	1419.375		10	>	233	19	132	50	38	1.15	.93	379	1	.50	52	13	.192	1.80	81	.34	1.8	2	80
13	PAg03	4709.201	1419.375		11	>	197	14	163	31	35	.98	.70	127	1	.50	44	6	.084	3.70	67	.32	1.8	2	76
14	PAg04	4709.185	1418.675		9	>	162	9	162	24	47	1.14	.87	576	1	.72	56	8	.077	4.40	60	.29	1.8	4	68
15	PAg05	4709.299	1418.725		11	>	249	17	144	47	47	1.14	.87	576	1	.72	56	8	.077	4.40	60	.29	1.8	4	68
16	PAg06	4705.493	1417.359		3	>	104	8	172	11	25	.45	.33	56	1	.37	36	10	.066	1.80	44	.22	1.6	3	87
17	PAg07	4705.647	1417.355		9	>	131	10	179	16	19	.59	.41	104	1	.37	36	10	.066	1.80	44	.22	1.6	3	87
18	PAg08	4705.666	1416.719		12	>	97	10	181	13	15	.39	.29	39	1	.21	28	5	.035	2.70	41	.21	1.8	2	52
19	PAg09	4709.810	1417.442		18	>	189	16	145	30	34	1.04	.73	73	1	.51	53	10	.036	7.70	70	.37	1.8	2	40
20	PAg10	4706.470	1416.495		17	>	130	9	177	18	25	.65	.48	104	1	.36	43	4	.042	2.60	55	.28	1.6	2	56
21	PAg11	4706.239	1415.839		8	>	133	13	134	18	36	.62	.45	147	1	.23	41	11	.027	3.20	46	.28	1.6	2	50
22	PAg12	4706.310	1415.695		12	>	113	10	216	15	37	.51	.40	71	1	.22	35	4	.032	1.70	47	.27	1.8	2	57
23	PAg13	4707.637	1415.553		11	>	118	11	251	15	16	.56	.42	84	1	.33	47	11	.024	1.00	51	.27	1.8	2	54
24	PAg14	4707.533	1415.294		16	>	131	10	234	17	21	.61	.46	124	1	.24	42	15	.033	2.70	52	.30	1.8	2	58
25	PAg15	4708.735	1415.231		10	>	98	11	268	12	20	.42	.32	34	1	.25	49	11	.030	4.70	44	.21	1.6	2	54
26	PAg16	4708.716	1415.023		19	>	114	7	201	18	34	.58	.41	107	1	.20	36	18	.028	5.60	34	.19	2.0	3	54
27	PAg17	4704.997	1414.253		14	>	99	8	429	13	19	.30	.21	40	2	.12	44	13	.028	3.70	35	.22	1.6	2	34
28	PAg18	4704.962	1414.124		13	>	92	6	171	10	25	.34	.19	5	1	.13	27	9	.034	3.70	35	.22	1.6	2	34
29	PAg19	4705.721	1413.115		17	>	127	9	149	15	26	.60	.48	87	1	.27	41	5	.031	6.30	42	.24	1.6	2	34
30	PAg20	4709.315	1413.040		12	>	103	7	239	16	24	.50	.37	113	1	.16	38	8	.038	2.60	49	.27	1.6	2	57
31	PAg21	4706.149	1412.069		14	>	83	8	187	10	25	.30	.21	5	2	.12	27	3	.021	1.60	33	.19	1.6	2	54
32	PAg22	4706.130	1412.233		14	>	103	8	187	10	25	.30	.21	5	2	.12	27	3	.021	1.60	33	.19	1.6	2	54
33	PAg23	4706.911	1411.612		10	>	88	6	254	11	10	.33	.22	66	1	.11	27	3	.031	4.40	34	.19	1.6	2	34
34	PAg24	4709.905	1411.822		6	>	105	15	228	14	19	.44	.35	86	1	.19	42	10	.032	2.60	39	.21	1.6	2	35
35	PAg25	4707.262	1410.140		16	>	138	16	173	21	21	.20	.15	6	1	.08	23	6	.040	4.90	27	.15	1.2	3	46
36	PAg26	4707.357	1410.223		16	>	66	3	338	11	21	.20	.15	6	1	.08	23	6	.040	4.90	27	.15	1.2	3	46
37	PAg27	4706.800	1411.700		11	>	138	16	173	21	21	.20	.15	6	1	.08	23	6	.040	4.90	27	.15	1.2	3	46
38	PAg28	4705.473	1413.684		13	>	82	6	281	10	20	.29	.20	5	1	.11	24	7	.029	6.90	54	.33	1.8	2	73
39	PAg29	4708.965	1419.652		21	>	121	11	338	16	31	.56	.45	168	1	.27	66	8	.036	4.00	32	.18	1.4	2	32
40	PAg30	4708.353	1418.526		21	>	161	16	208	25	31	.79	.65	5	1	.50	56	7	.065	4.70	64	.31	1.6	2	81
41	PAH01	4704.823	1409.021		15	>	218	14	195	32	29	.87	.80	216	1	.50	56	2	.146	5.00	72	.35	1.6	2	82
42	PAH02	4705.047	1409.032		4	>	81	7	151	8	21	.27	.20	18	1	.10	27	2	.020	2.40	32	.18	1.4	2	34
43	PAH03	4704.784	1408.897		17	>	171	7	362	8	20	.24	.18	11	1	.09	52	65	.027	3.90	33	.17	1.4	2	34
44	PAH04	4704.785	1408.619		20	>	99	11	466	13	37	.40	.30	5	1	.22	101	13	.044	4.70	41	.22	1.4	2	34
45	PAH05	4704.882	1408.128		10	>	136	14	199	20	32	.66	.53	295	1	.37	45	3	.024	2.60	71	.39	2.0	2	69
46	PAH06	4706.848	1409.697		6	>	83	7	437	12	16	.30	.26	86	1	.10	134	8	.026	5.30	34	.19	1.2	2	40
47	PAH07	4706.992	1408.623		11	>	85	7	279	11	15	.32	.24	23	1	.14	35	4	.037	4.50	35	.18	1.2	2	40
48	PAH08	4707.315	1408.755		18	>	103	6	278	13	31	.43	.30	5	1	.22	46	4	.040	1.50	42	.26	1.8	2	48
49	PAH09	4709.495	1409.352		12	>	160	21	166	22	38	.84	.64	45	1	.31	65	8	.031	5.00	64	.38	1.6	2	48
50	PAH10	4709.465	1408.253		23	>	100	4	205	10	10	.43	.28	5	1	.14	36	2	.028	5.60	40	.27	2.0	2	51

List of Geochemical Analysis ( 2 )

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn	
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
51	PAh11	4706.107	1408.258	17	199	16	19	53	43	5	19	53	43	5	19	24	51	2	0.53	3.20	51	31	2.4	2	72	
52	PAh12	4707.081	1407.831	20	169	17	19	59	59	315	19	28	21	5	19	30	60	5	0.46	4.60	63	37	1.8	2	77	
53	PAh13	4707.185	1407.921	13	209	10	15	28	21	5	28	28	21	5	19	12	32	6	0.40	4.20	34	37	1.8	2	36	
54	PAh14	4707.476	1407.609	14	184	16	28	58	44	5	25	58	44	5	19	29	51	3	0.62	2.40	53	31	1.8	3	75	
55	PAh15	4707.465	1407.460	10	150	15	25	58	41	5	35	85	63	105	1	28	48	2	0.59	7.70	50	30	1.8	3	73	
56	PAh16	4705.554	1407.242	28	168	24	35	85	63	105	14	95	47	7	1	35	60	16	0.42	3.90	65	36	1.6	2	90	
57	PAh17	4707.997	1406.932	7	139	17	14	95	47	7	14	95	47	7	1	38	47	5	0.41	2.0	57	32	1.8	2	65	
58	PAh18	4706.283	1406.054	1	88	12	20	47	27	36	11	29	16	5	1	18	30	5	0.66	4.0	38	20	1.6	2	35	
59	PAh19	4706.694	1406.438	1	68	8	11	29	16	5	11	29	16	5	1	12	23	10	0.37	1.20	30	15	1.6	2	26	
60	PAh20	4709.671	1405.892	6	157	24	29	1.22	65	173	29	77	37	70	1	54	52	5	0.73	3.40	65	36	2.4	4	73	
61	PAh21	4707.037	1404.682	13	146	21	39	77	37	70	39	77	37	70	1	22	38	12	0.32	2.00	48	28	1.8	2	52	
62	PAh22	4706.660	1405.396	2	67	9	19	26	17	5	10	26	17	5	1	10	24	4	0.29	2.0	29	16	1.6	2	26	
63	PAh23	4707.844	1404.711	1	108	14	10	56	30	5	10	56	30	5	1	19	33	4	0.34	2.60	44	27	1.6	2	43	
64	PAh24	4709.153	1403.958	10	99	14	23	69	36	138	27	50	25	43	1	18	34	9	0.23	2.0	42	22	1.4	2	45	
65	PAh25	4706.994	1403.322	9	130	14	23	69	36	138	27	50	25	43	1	18	34	9	0.23	2.0	42	22	1.4	2	45	
66	PAJ01	4704.690	1399.569	8	105	14	23	69	36	138	27	50	25	43	1	18	34	9	0.23	2.0	42	22	1.4	2	45	
67	PAJ02	4704.805	1399.525	7	123	14	23	69	36	138	27	50	25	43	1	18	34	9	0.23	2.0	42	22	1.4	2	45	
68	PAJ03	4706.062	1399.620	4	169	16	41	49	22	24	41	49	22	24	1	09	36	4	0.32	1.60	41	35	1.8	2	39	
69	PAJ04	4704.719	1398.745	3	100	9	15	30	17	5	15	30	17	5	1	11	32	3	0.24	2.80	37	34	2.0	2	31	
70	PAJ05	4709.525	1397.868	1	70	8	16	38	24	24	16	38	24	24	1	14	31	3	0.26	1.70	29	17	1.2	2	27	
71	PAJ06	4708.085	1397.752	8	163	12	29	38	24	24	16	38	24	24	1	14	31	3	0.26	1.70	29	17	1.2	2	27	
72	PAJ07	4704.784	1397.703	9	148	11	16	41	25	5	21	41	25	5	1	20	27	3	0.54	1.70	36	18	1.2	2	33	
73	PAJ08	4704.934	1397.588	7	159	7	12	26	15	5	12	26	15	5	1	13	25	2	0.24	3.20	26	16	1.2	2	23	
74	PAJ09	4706.625	1397.438	7	144	8	10	21	12	5	10	21	12	5	1	10	22	2	0.31	2.0	29	16	1.6	2	28	
75	PAJ10	4706.686	1397.254	6	235	21	28	68	42	195	28	68	42	195	1	08	28	2	0.42	3.40	25	15	1.8	2	24	
76	PAJ11	4708.206	1397.604	13	150	21	28	68	42	195	28	68	42	195	1	08	28	2	0.42	3.40	25	15	1.8	2	24	
77	PAJ12	4711.201	1423.611	13	141	19	28	68	42	195	28	68	42	195	1	08	28	2	0.42	3.40	25	15	1.8	2	24	
78	PAJ13	4711.022	1423.402	12	169	10	15	73	41	19	28	73	41	19	1	23	38	3	0.67	2.90	62	36	2.2	2	56	
79	PAJ14	4712.795	1423.491	12	210	25	53	94	66	218	53	94	66	218	1	44	47	8	0.32	4.10	62	30	1.8	2	55	
80	PAJ15	4712.841	1423.382	5	169	18	34	1.24	80	236	34	1.24	80	236	1	44	47	8	0.32	4.10	62	30	1.8	2	55	
81	PAJ16	4714.477	1424.121	1	241	2	27	68	42	195	27	68	42	195	1	65	59	8	0.248	5.00	74	34	2.0	2	77	
82	PAJ17	4714.477	1424.121	1	121	1	43	1.37	67	126	43	1.37	67	126	1	57	68	6	0.32	2.80	45	25	1.8	2	48	
83	PAJ18	4715.643	1424.108	14	150	20	17	1.02	53	182	17	1.02	53	182	1	57	68	6	0.32	2.80	45	25	1.8	2	48	
84	PAJ19	4718.269	1424.047	10	131	28	21	75	46	129	28	75	46	129	1	33	54	13	0.52	6.0	56	39	2.4	2	78	
85	PAJ20	4711.844	1423.954	7	194	13	22	59	30	120	22	59	30	120	1	14	35	6	0.174	1.00	41	22	1.6	2	53	
86	PAJ21	4710.899	1422.319	5	161	56	42	1.38	88	498	42	1.38	88	498	1	69	61	6	0.64	2.90	74	36	1.4	2	43	
87	PAJ22	4711.497	1422.282	8	154	22	30	90	58	175	30	90	58	175	1	46	48	2	0.78	4.80	59	30	1.8	2	49	
88	PAJ23	4711.651	1422.298	15	167	22	28	94	66	204	28	94	66	204	1	46	48	2	0.78	4.80	59	30	1.8	2	49	
89	PAJ24	4712.212	1421.720	9	205	49	36	1.19	82	474	36	1.19	82	474	1	62	54	4	0.209	5.40	63	31	1.6	2	65	
90	PAJ25	4712.212	1421.720	14	132	20	22	87	49	156	22	87	49	156	1	31	51	8	0.38	1.00	51	29	2.0	2	59	
91	PAJ26	4717.599	1422.569	2	229	57	20	1.37	94	417	20	1.37	94	417	1	74	71	2	0.38	1.00	51	29	2.0	2	59	
92	PAJ27	4717.645	1422.405	9	117	21	19	62	39	158	19	62	39	158	1	25	42	6	0.144	1.30	35	21	1.6	2	52	
93	PAJ28	4711.822	1420.463	6	134	21	19	62	39	158	19	62	39	158	1	25	42	6	0.144	1.30	35	21	1.6	2	52	
94	PAJ29	4712.897	1420.263	5	229	52	47	1.33	83	292	47	1.33	83	292	1	68	74	9	0.128	2.0	75	34	1.8	2	82	
95	PAJ30	4714.707	1420.229	19	157	13	27	59	32	65	27	59	32	65	1	17	46	13	0.44	2.70	37	21	1.4	2	41	
96	PAJ31	4714.846	1420.310	1	149	48	20	1.02	51	33	20	1.02	51	33	1	33	75	11	0.57	3.20	58	36	1.8	2	78	
97	PAJ32	4716.098	1421.021	12	150	12	28	45	23	53	28	45	23	53	1	14	50	7	0.42	1.50	33	22	2.0	2	41	
98	PAJ33	4715.153	1420.883	17	198	23	35	1.03	62	122	35	1.03	62	122	1	46	58	7	0.74	2.0	57	31	1.8	2	73	
99	PAJ34	4716.799	1420.340	17	175	31	62	1.53	78	328	62	1.53	78	328	1	59	138	10	0.159	3.00	71	30	2.4	2	94	
100	PAJ35	4717.966	1421.047	1	131	18	30	81	49	260	30	81	49	260	1	40	72	9	0.089	4.90	62	33	2.2	2	88	
																										51

List of Geochemical Analysis ( 3 )

Ser. No.	Sample No.	Location (km)	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
101	P8f24	4718.717	1421.264	>	134	9	95	21	20	.73	.45	132	>	.31	27	>	.064	1.80	39	.22	1.4	>	52
102	P8f25	4719.591	1420.872	1	236	20	135	39	27	1.54	.96	882	>	.24	61	8	.127	4.30	72	.36	1.8	>	96
103	P8f26	4717.873	1422.615	13	100	3	185	17	15	.51	.32	109	>	.57	21	7	.041	5.50	30	.20	1.8	>	37
104	P8f27	4718.578	1421.199	2	94	5	134	14	28	.46	.27	136	>	.19	19	5	.057	2.70	25	.17	1.2	>	33
105	P8f01	4711.535	1418.947	23	208	14	133	28	52	1.43	.79	220	>	.60	49	2	.145	>	74	.38	2.4	>	82
106	P8f02	4713.817	1419.800	3	160	14	144	22	38	1.08	.54	5	>	.50	41	2	.070	>	57	.34	1.8	>	71
107	P8f03	4715.031	1419.385	8	149	12	133	22	42	.98	.52	110	>	.38	42	3	.055	5.10	56	.32	2.4	>	73
108	P8f04	4715.305	1418.607	17	160	16	139	21	34	1.02	.57	94	>	.36	50	7	.032	3.50	59	.34	2.0	>	77
109	P8f05	4718.924	1419.835	15	173	11	152	24	40	1.14	.64	232	>	.47	42	2	.070	6.10	58	.30	1.8	2	67
110	P8f06	4719.059	1419.955	10	117	6	179	15	34	.58	.35	166	>	.23	22	3	1.06	1.60	32	.19	1.2	>	42
111	P8f07	4717.562	1418.610	27	199	14	125	24	25	1.41	.71	145	>	.50	41	8	.041	5.10	68	.39	2.0	>	85
112	P8f08	4717.667	1418.521	7	186	20	117	25	17	1.40	.75	377	>	.58	51	2	.095	1.10	65	.37	2.0	>	85
113	P8f09	4715.934	1417.608	16	149	7	128	23	29	1.05	.47	5	>	.19	32	2	.029	2.10	49	.36	2.2	>	61
114	P8f10	4716.023	1417.623	3	166	15	128	25	38	1.19	.65	284	>	.50	50	2	.049	1.40	61	.34	1.8	>	81
115	P8f11	4710.485	1417.133	>	154	12	133	26	36	.94	.65	191	>	.59	40	2	.074	3.70	62	.29	1.6	>	82
116	P8f12	4710.613	1416.518	>	142	13	111	23	35	1.11	.57	85	>	.61	38	2	.071	>	58	.28	1.8	>	57
117	P8f13	4710.321	1416.174	>	204	16	115	26	28	1.80	.78	288	>	.59	41	13	1.20	>	71	.39	2.2	>	76
118	P8f14	4710.917	1415.884	>	154	15	117	22	27	1.24	.58	133	>	.58	41	6	.034	>	61	.32	1.8	>	84
119	P8f15	4711.898	1415.900	>	163	17	123	24	35	1.30	.59	264	>	.46	44	5	.033	>	59	.35	1.8	>	70
120	P8f16	4711.993	1415.856	>	163	12	133	24	56	1.19	.64	101	>	.55	48	6	.047	>	64	.32	2.0	>	69
121	P8f17	4713.681	1416.879	>	159	14	114	20	36	1.10	.58	37	>	.51	48	7	.045	.40	51	.31	1.4	2	82
122	P8f18	4713.756	1416.696	>	187	15	124	26	54	.98	.70	73	>	.63	47	2	.066	>	72	.29	2.0	>	75
123	P8f19	4715.899	1416.599	>	130	13	119	17	43	.95	.48	34	>	.43	34	4	.032	>	52	.29	1.4	>	56
124	P8f20	4715.975	1416.476	>	172	6	116	18	42	1.36	.62	5	>	.53	41	4	.027	>	59	.35	2.0	>	68
125	P8f21	4716.725	1416.967	>	152	14	122	23	48	1.07	.59	75	>	.47	51	2	.039	>	57	.29	1.6	>	77
126	P8f22	4717.210	1417.347	>	186	16	122	26	54	1.66	.73	433	>	.64	53	8	.052	>	68	.38	2.0	>	85
127	P8f23	4717.231	1417.233	>	173	15	154	19	47	1.18	.67	165	>	.52	45	2	.042	>	60	.31	1.8	>	69
128	P8f24	4717.819	1417.142	>	189	18	144	27	52	1.22	.72	157	>	.54	52	2	.045	>	63	.33	1.4	>	76
129	P8f25	4710.196	1414.718	>	104	11	130	12	35	.63	.37	16	>	.34	28	2	.036	>	47	.22	1.4	>	45
130	P8f26	4710.653	1413.202	1	125	11	163	18	52	.84	.46	55	>	.38	38	2	.049	>	51	.28	1.4	>	53
131	P8f27	4712.145	1413.791	>	140	12	102	15	47	.93	.47	21	>	.42	38	2	.038	>	54	.30	1.8	>	61
132	P8f28	4712.373	1413.952	>	167	16	100	20	57	1.24	.65	58	>	.47	45	7	.038	>	65	.35	1.8	>	72
133	P8f29	4713.103	1414.333	11	177	17	131	30	56	1.28	.70	20	>	.58	49	6	.067	>	66	.35	2.0	>	73
134	P8f30	4714.414	1414.351	>	196	15	119	27	58	1.46	.82	94	>	.47	48	2	.137	>	71	.36	1.8	>	77
135	P8f31	4715.047	1414.956	>	153	16	123	22	64	1.19	.61	142	>	.35	38	5	.030	1.40	56	.32	1.2	>	66
136	P8f32	4714.528	1414.252	>	150	14	111	21	51	1.14	.60	184	>	.41	39	6	.035	>	56	.31	1.8	>	68
137	P8f33	4716.502	1415.632	2	156	12	123	21	42	1.09	.60	132	>	.50	43	2	.052	>	56	.28	1.2	>	69
138	P8f34	4717.041	1415.752	>	174	14	122	21	38	1.31	.78	148	>	.61	44	2	.151	>	64	.33	1.8	>	76
139	P8f35	4719.373	1414.927	>	167	14	117	28	58	1.14	.71	5	>	.54	44	2	.191	>	59	.29	1.8	>	66
140	P8f36	4719.466	1415.012	>	128	9	154	11	36	.83	.41	43	>	.24	38	3	.041	>	39	.20	1.2	>	66
141	P8f37	4711.745	1412.354	>	202	16	138	20	44	1.18	.80	102	>	.62	42	9	.083	>	69	.41	2.2	>	82
142	P8f38	4713.671	1412.604	>	174	12	125	22	47	1.37	.73	51	>	.62	48	2	.040	>	67	.35	1.8	>	76
143	P8f39	4715.801	1412.535	>	174	14	138	20	44	1.18	.65	102	>	.51	41	3	.059	>	59	.30	1.8	>	82
144	P8f40	4715.512	1413.121	>	184	13	122	28	48	1.36	.67	133	>	.63	49	3	1.08	>	65	.34	1.8	>	77
145	P8f41	4715.440	1412.575	>	163	15	111	26	51	1.26	.67	124	>	.57	43	3	.063	>	61	.30	1.8	>	81
146	P8f42	4715.541	1412.516	>	142	15	141	15	37	.91	.49	177	>	.42	44	10	.035	>	52	.28	1.8	>	72
147	P8f43	4717.267	1412.109	>	182	13	130	18	27	1.44	.68	89	>	.44	48	2	.034	>	59	.35	1.8	>	84
148	P8f44	4719.053	1412.591	>	160	16	129	14	30	1.17	.57	51	>	.37	44	3	.056	>	49	.28	1.6	>	75
149	P8f45	4719.146	1412.721	5	154	16	129	16	40	1.10	.56	115	>	.35	40	3	.051	.70	50	.28	1.6	>	72
150	P8f46	4713.684	1411.402	>	169	15	133	25	67	1.28	.71	38	>	.68	45	2	.103	>	64	.32	1.6	>	73

List of Geochemical Analysis ( 4 )

Ser. No.	Sample No.	Location (m)	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Nb ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
151	P8g47	4716.074	1411.700	1	196	16	151	32	58	1.40	.83	164	54	.59	54	12	.147	5.00	55	.35	1.6	>	82
152	P8g48	4719.932	1411.469	1	146	10	147	15	34	.98	.58	5	42	.36	42	7	.044	>	49	.28	1.6	>	72
153	P8g49	4711.408	1411.230	1	123	11	166	16	37	.82	.50	5	47	.40	47	8	.042	1.90	54	.28	2.0	>	61
154	P8g50	4711.418	1411.081	1	163	11	92	21	36	1.14	.66	80	54	.45	54	5	.043	2.60	67	.39	2.0	>	72
155	P8g51	4711.207	1410.668	1	168	20	102	25	60	1.12	.70	189	51	.44	51	8	.032	2.80	68	.39	2.4	>	80
156	P8g52	4713.767	1410.072	1	130	14	110	18	50	.79	.57	90	47	.43	47	14	.074	2.80	52	.28	1.8	>	69
157	P8g53	4714.553	1410.980	1	134	9	108	18	48	.77	.55	61	39	.39	39	7	.060	1.90	53	.28	1.8	>	64
158	P8g54	4713.528	1410.796	5	152	12	138	24	41	.89	.64	5	47	.39	47	9	.092	>	54	.30	1.8	>	76
159	P8g55	4718.212	1410.749	1	173	16	156	18	38	1.04	.62	67	52	.36	52	10	.045	4.60	56	.34	1.8	>	86
160	P8g56	4713.468	1411.540	1	164	14	216	19	40	.93	.69	30	78	.51	78	8	.074	9.90	63	.32	1.8	6	78
161	P8g57	4715.877	1413.635	1	191	19	95	28	44	1.08	.78	114	58	.56	58	15	1.35	3.40	68	.35	2.0	>	84
162	P8g58	4715.216	1410.930	1	202	17	99	27	49	1.37	.97	127	64	.62	64	13	1.58	3.40	74	.41	2.2	>	100
163	P8g59	4710.629	1417.203	1	145	11	95	23	52	.75	.62	6	51	.42	51	2	.098	6.10	59	.30	1.8	>	80
164	P8g60	4714.069	1419.399	26	181	20	94	25	38	1.03	.64	127	56	.30	56	10	.043	>	64	.40	1.8	>	80
165	P8g61	4715.691	1418.172	1	180	18	103	25	49	1.07	.64	67	62	.35	62	15	.035	2.10	65	.41	2.2	2	88
166	P8h01	4710.425	1408.622	1	167	16	127	19	26	.84	.60	6	51	.32	51	5	.062	7.40	63	.37	2.0	>	80
167	P8h02	4711.583	1409.600	1	229	30	105	31	52	.85	.58	5	52	.37	52	12	.062	4.00	59	.34	1.8	>	77
168	P8h03	4712.670	1409.540	9	207	29	94	38	76	1.29	.91	877	66	.56	66	24	3.88	2.80	73	.40	2.0	>	94
169	P8h04	4713.779	1409.034	1	146	13	107	20	43	.85	.58	5	54	.37	54	15	.052	4.20	75	.45	2.6	>	100
170	P8h05	4713.754	1409.198	1	189	23	95	35	77	1.12	.77	302	61	.54	61	9	.020	2.80	71	.43	2.0	>	92
171	P8h06	4716.145	1408.741	4	149	14	127	19	26	.93	.75	127	57	.47	57	7	.038	3.80	59	.34	1.6	5	77
172	P8h07	4716.254	1408.846	16	174	16	125	18	34	.93	.67	5	54	.59	54	10	.039	2.00	65	.35	1.8	>	81
173	P8h08	4718.046	1409.584	15	142	15	184	20	43	.97	.67	5	53	.39	53	7	.038	3.80	55	.35	2.0	>	97
174	P8h09	4718.336	1408.493	7	144	13	166	19	37	.83	.63	149	48	.48	48	10	.068	2.00	52	.31	1.6	>	76
175	P8h10	4718.698	1408.578	9	144	13	166	19	37	.83	.63	149	48	.48	48	10	.068	2.00	52	.31	1.6	>	76
176	P8h11	4719.493	1408.578	4	146	16	159	19	28	.84	.70	153	49	.40	49	8	.037	2.00	50	.29	1.8	4	75
177	P8h12	4713.372	1407.806	1	145	16	159	19	28	.84	.70	153	49	.40	49	8	.037	2.00	50	.29	1.8	4	75
178	P8h13	4713.550	1407.846	5	112	7	137	13	40	.55	.42	5	47	.37	47	3	.024	>	49	.28	1.4	3	55
179	P8h14	4712.528	1406.814	24	193	17	204	29	104	1.22	.91	189	70	.72	70	3	.094	1.50	72	.41	1.6	>	96
180	P8h15	4712.602	1406.918	17	132	15	123	17	70	.65	.54	50	45	.37	45	6	.044	1.50	51	.32	1.8	3	73
181	P8h16	4717.616	1406.787	1	133	12	155	18	43	.62	.47	96	44	.28	44	11	.082	1.70	52	.30	1.6	>	71
182	P8h17	4713.549	1405.840	16	129	15	134	19	60	.75	.58	95	45	.40	45	8	.030	3.50	49	.30	1.6	>	71
183	P8h18	4714.889	1406.477	24	143	17	138	19	49	.81	.70	126	56	.47	56	12	.049	2.10	55	.35	1.8	3	77
184	P8h19	4715.003	1406.413	13	128	16	134	20	58	.75	.59	126	56	.47	56	12	.049	2.10	55	.35	1.8	3	77
185	P8h20	4717.810	1406.713	6	102	9	144	17	32	.45	.40	16	32	.34	32	10	.059	1.50	49	.30	1.2	>	72
186	P8h21	4718.028	1408.109	28	117	13	143	16	31	.54	.47	56	37	.34	37	9	.059	1.50	40	.25	1.4	>	54
187	P8h22	4713.894	1405.812	21	117	13	143	16	31	.54	.47	56	37	.34	37	9	.059	1.50	40	.25	1.4	>	54
188	P8h23	4713.959	1405.703	15	151	17	131	21	51	.93	.71	54	58	.45	58	7	.041	1.10	52	.38	1.8	3	75
189	P8h24	4717.379	1406.026	30	144	16	131	23	52	.75	.55	6	48	.30	48	7	.025	>	49	.35	2.0	75	87
190	P8h25	4710.404	1405.434	21	161	15	134	23	58	.89	.65	46	55	.47	55	8	.071	1.80	63	.36	1.8	>	88
191	P8h26	4710.529	1405.489	28	173	16	117	25	58	.89	.65	46	55	.47	55	8	.071	1.80	63	.36	1.8	>	88
192	P8h27	4710.450	1404.927	18	176	14	157	32	66	.89	.72	121	66	.43	66	13	.049	5.00	67	.38	2.2	>	93
193	P8h28	4711.838	1403.742	17	178	19	127	29	58	.96	.84	131	65	.51	65	4	1.37	5.30	65	.40	2.0	>	105
194	P8h29	4711.929	1403.579	20	202	18	130	25	38	1.23	.91	5	55	.37	55	5	.039	>	71	.45	1.8	>	106
195	P8h30	4716.069	1405.688	12	167	22	130	24	45	1.02	.61	5	55	.37	55	10	.037	9.90	56	.38	2.2	>	104
196	P8h31	4715.979	1405.677	13	165	19	141	26	45	.91	.55	5	60	.36	60	4	.028	5.20	54	.36	2.0	>	99
197	P8h32	4718.016	1405.249	32	134	18	174	18	74	.64	.52	183	39	.45	39	3	.050	1.00	47	.28	2.0	>	89
198	P8h33	4717.499	1403.802	22	145	16	105	18	45	.70	.52	5	48	.35	48	5	.046	2.80	49	.34	1.8	>	78
199	P8h34	4717.769	1404.886	14	106	9	196	13	27	.48	.36	20	35	.28	35	5	.025	>	37	.27	1.6	>	61
200	P8h35	4717.467	1404.269	17	162	13	158	20	49	.88	.60	5	52	.41	52	2	.085	2.30	55	.38	2.2	>	78



List of Geochemical Analysis ( 5 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
201	PBh36	4718.648	15	>	159	18	184	27	54	.69	.62	60	>	.46	61	12	.030	4.10	53	.32	1.8	>	95
202	PBh37	4718.749	23	>	145	15	171	19	53	.38	.56	127	>	.22	44	16	.024	>	37	.29	1.4	3	71
203	PBh38	4710.379	15	>	145	15	153	20	68	.57	.81	49	>	.48	53	11	.052	3.30	57	.37	1.8	>	84
204	PBh39	4710.280	33	>	172	18	134	29	79	.75	1.05	272	>	.48	62	12	.056	2.50	66	.41	2.0	>	99
205	PBh40	4711.321	22	>	203	21	132	28	50	1.25	1.25	189	>	.48	66	10	.070	.50	69	.44	2.0	>	117
206	PBh41	4710.063	14	>	164	26	88	29	59	.62	.85	356	>	.52	48	7	.033	3.20	64	.35	1.8	>	76
207	PBh42	4710.015	15	>	179	16	117	22	54	.71	.58	58	>	.61	47	4	.077	2.90	69	.39	2.2	>	77
208	PBh43	4711.345	>	>	178	15	124	27	76	.64	.84	128	>	.51	51	9	.083	3.40	62	.36	2.2	>	84
209	PBh44	4711.509	14	>	203	18	130	30	65	1.70	.84	47	>	.68	55	9	.070	4.60	74	.41	1.8	>	88
210	PBh45	4715.745	19	>	109	10	134	15	35	.81	.34	71	>	.24	34	2	.018	>	41	.26	1.8	>	47
211	PBh46	4711.414	6	>	186	19	123	29	78	1.41	.73	197	>	.55	52	9	.098	2.10	66	.38	1.8	>	91
212	PBh47	4711.519	16	>	189	20	118	32	225	1.42	.67	518	>	.44	54	18	.028	3.40	68	.36	1.8	>	89
213	PBh48	4715.126	10	>	100	8	151	17	45	.37	.59	33	>	.33	30	2	.038	>	45	.22	1.6	>	47
214	PBh49	4715.244	10	>	163	14	111	21	36	1.07	.57	183	>	.41	44	8	.015	>	55	.32	2.0	>	63
215	PBh50	4715.100	16	>	128	6	129	15	54	.81	.36	58	>	.21	33	8	.015	2.00	41	.28	1.8	>	47
216	PBh51	4715.487	11	>	175	26	148	31	77	1.21	.71	539	>	.63	51	12	.015	.20	70	.55	2.0	>	69
217	PBh52	4715.602	6	>	120	18	154	21	38	.73	.45	250	>	.44	37	5	.016	4.10	51	.26	1.4	>	62
218	PBh53	4717.931	14	>	149	9	141	16	41	.56	.50	50	>	.45	42	2	.037	4.60	53	.31	2.2	>	48
219	PBh54	4711.869	19	>	148	9	132	20	50	1.06	.52	30	>	.40	35	7	.129	3.80	57	.32	2.0	>	58
220	PBh55	4715.356	2	>	178	13	120	22	55	1.42	.74	179	>	.71	48	2	.048	2.80	66	.37	1.6	>	75
221	PBh56	4715.506	3	>	190	14	117	24	52	1.42	.77	121	>	.72	47	2	.032	3.70	70	.39	1.8	>	74
222	PBh57	4719.097	15	>	148	14	106	20	56	1.00	.54	39	>	.47	40	4	.044	1.20	57	.33	2.0	>	61
223	PBh58	4710.500	16	>	142	10	126	18	37	.92	.45	58	>	.30	38	4	.066	>	55	.32	2.0	>	58
224	PBh59	4714.303	28	>	129	7	121	21	53	.95	.44	58	>	.38	37	6	.019	.50	47	.30	1.6	>	53
225	PBj01	4713.840	11	>	144	12	143	19	49	.98	.57	81	>	.52	41	8	.039	3.80	58	.32	2.0	>	52
226	PBj02	4713.916	17	>	196	21	114	27	81	1.55	.78	79	>	.55	51	5	.037	4.00	68	.42	2.4	>	85
227	PBj03	4711.187	18	>	150	4	122	12	26	.25	.15	125	>	.06	15	7	.015	2.80	22	.11	.8	>	26
228	PBj04	4712.935	9	>	102	6	133	12	32	.61	.34	26	>	.26	26	10	.030	5.00	40	.23	1.8	>	42
229	PBj05	4713.268	6	>	169	12	191	23	66	1.31	.68	58	>	.54	54	9	.040	2.90	63	.38	2.2	>	70
230	PBj06	4715.583	15	>	178	11	123	25	61	1.04	.66	71	>	.50	49	5	.046	2.60	61	.39	1.8	>	77
231	PBj07	4711.202	12	>	153	6	109	20	32	1.04	.57	17	>	.35	39	5	.036	4.60	55	.34	2.0	>	66
232	PBj08	4710.752	15	>	180	14	113	25	51	.70	.70	58	>	.45	52	9	.062	2.90	67	.40	1.8	>	83
233	PBj09	4710.992	10	>	145	3	144	18	43	1.01	.53	58	>	.33	38	3	.045	1.40	56	.33	1.8	>	84
234	PBj10	4713.362	9	>	50	3	144	10	29	.17	.07	25	>	.02	10	5	.018	1.90	17	.15	1.2	>	20
235	PBj11	4713.623	20	>	74	3	145	10	27	.38	.17	58	>	.05	15	5	.022	>	25	.21	1.6	>	27
236	PBj12	4719.133	14	>	122	10	99	17	40	.73	.32	39	>	.19	31	3	.013	1.20	43	.29	1.6	>	27
237	PCf01	4721.979	10	>	93	4	94	9	19	.47	.26	114	>	.19	13	2	.018	1.20	43	.29	1.6	>	27
238	PCf02	4722.128	7	>	93	5	227	13	17	.42	.42	222	>	.25	22	3	.017	2.00	22	.17	1.6	>	23
239	PCf03	4723.505	17	>	122	8	188	17	12	.62	.61	357	>	.34	41	3	.027	4.20	25	.23	2.2	>	31
240	PCf04	4724.507	6	>	110	9	225	22	11	.63	.86	422	>	.39	47	3	.025	>	39	.27	1.6	>	42
241	PCf05	4726.299	18	>	207	24	369	45	14	1.09	2.09	964	>	.70	105	2	.065	6.90	57	.74	1.2	>	50
242	PCf06	4725.399	6	>	101	9	203	16	23	.57	.43	419	>	.39	46	6	.033	1.10	31	.29	1.2	>	88
243	PCf07	4723.202	13	>	83	4	124	9	10	.43	.24	128	>	.23	14	2	.014	4.30	22	.15	1.2	>	46
244	PCf08	4725.977	12	>	188	22	409	43	18	1.07	1.87	971	>	.86	96	2	.066	6.70	55	.68	1.4	>	22
245	PCf09	4725.933	8	>	87	6	178	15	17	.45	.35	142	>	.24	21	3	.018	1.80	25	.20	1.2	>	82
246	PCf10	4728.502	23	>	105	7	229	13	32	.59	.36	126	>	.11	26	2	.045	3.00	19	.15	1.0	>	25
247	PCf11	4720.458	21	>	105	5	122	13	20	.33	.24	105	>	.24	20	4	.046	3.00	31	.19	1.2	>	26
248	PCf12	4725.882	18	>	85	8	121	12	11	.43	.25	207	>	.16	15	2	.013	3.70	22	.16	1.6	>	36
249	PCf13	4729.035	5	>	88	13	209	16	13	.44	.62	246	>	.52	41	4	.019	6.50	30	.28	.8	>	24
250	PCf14	4729.195	16	>	88	8	219	14	16	.40	.59	236	>	.55	42	3	.017	3.10	29	.28	1.2	>	45

List of Geochemical Analysis ( 6 )

Ser. No.	Sample No.	Location (km)		As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Nb ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
		X-coord	Y-coord																					
251	PCF15	4722.505	1420.429	>1	>1	81	3	235	8	13	.37	.19	51	>1	.21	13	>2	.011	2.60	19	.15	1.0	>2	21
252	PCF16	4723.261	1420.835	>1	>1	93	5	231	9	11	.42	.23	136	>1	.19	15	4	.013	2.20	20	.17	1.6	>2	24
253	PCF17	4723.524	1420.896	>1	>1	71	3	267	7	10	.31	.17	37	>1	.17	14	2	.013	1.80	18	.13	1.0	>2	20
254	PCF18	4724.196	1420.264	>1	2	81	4	212	8	10	.33	.20	102	>1	.14	14	10	.013	1.10	18	.14	1.0	>2	19
255	PCF19	4725.500	1421.005	>1	>1	88	4	286	10	14	.41	.26	65	>1	.19	18	2	.013	1.70	21	.16	1.0	>2	25
256	PCF20	4727.632	1420.851	>1	>1	137	11	203	14	77	.82	.65	336	>1	.43	39	2	.028	5.60	41	.26	1.6	>2	56
257	PCF21	4727.869	1420.396	>1	>1	83	10	275	14	20	.41	.53	305	>1	.42	47	3	.019	3.40	28	.28	1.0	>2	42
258	PCF22	4726.245	1422.229	>1	>1	212	12	209	31	36	1.16	.87	409	>1	.59	51	4	.055	.30	56	.31	1.0	>2	81
259	PC901	4720.459	1419.774	1	>1	73	5	191	9	20	.33	.19	65	>1	.10	87	2	.015	.20	17	.18	1.8	>2	26
260	PC902	4720.213	1419.078	5	>1	83	4	194	10	14	.39	.24	133	>1	.13	16	3	.016	.40	21	.18	1.6	>2	25
261	PC903	4720.194	1418.874	6	>1	147	16	192	17	43	.76	.48	55	>1	.31	40	8	.055	3.20	53	.31	1.2	>2	69
262	PC904	4720.937	1418.774	9	3	81	5	243	17	43	.37	.24	47	>1	.14	16	7	.011	3.50	20	.17	2.0	>2	26
263	PC905	4720.938	1418.585	>1	>1	60	2	224	6	10	.22	.15	20	>1	.05	10	4	.011	2.40	14	.14	1.4	2	13
264	PC906	4724.371	1419.255	1	>1	68	4	171	7	10	.24	.15	5	>1	.11	13	4	.009	2.00	16	.14	1.2	>2	18
265	PC907	4724.336	1419.101	>1	>1	76	5	222	7	10	.27	.18	24	>1	.18	15	2	.011	1.20	19	.14	.8	>2	22
266	PC908	4724.538	1418.676	>1	>1	72	3	259	8	10	.27	.17	29	>1	.10	17	5	.012	1.80	17	.15	1.2	>2	21
267	PC909	4724.488	1418.516	4	>1	80	5	226	7	10	.33	.20	55	>1	.11	17	4	.011	.20	17	.15	1.2	>2	23
268	PC910	4724.223	1418.937	2	>1	102	5	231	11	12	.37	.28	363	>1	.26	19	6	.012	2.90	28	.15	1.4	>2	28
269	PC911	4725.393	1416.873	2	>1	83	5	215	8	10	.37	.23	23	>1	.12	14	2	.011	.90	18	.16	1.0	>2	24
270	PC912	4721.186	1417.643	>1	>1	75	3	288	7	10	.31	.19	53	>1	.17	13	3	.011	1.00	19	.16	1.4	2	23
271	PC913	4723.870	1417.680	>1	>1	79	4	184	8	13	.32	.21	24	>1	.17	14	2	.011	3.10	19	.16	1.2	>2	27
272	PC914	4724.109	1417.666	>1	>1	109	3	206	8	10	.41	.26	18	>1	.27	15	9	.012	4.50	25	.17	1.2	>2	27
273	PC915	4723.886	1417.442	>1	>1	96	6	172	9	10	.37	.25	60	>1	.23	14	2	.013	2.80	23	.17	1.6	>2	26
274	PC916	4726.415	1417.607	>1	>1	87	4	264	8	12	.32	.22	44	>1	.17	42	3	.010	.70	19	.18	1.6	3	26
275	PC917	4727.345	1417.904	>1	>1	82	5	277	10	17	.29	.26	60	>1	.17	21	2	.018	2.50	16	.20	1.4	>2	32
276	PC918	4728.305	1418.270	7	>1	44	4	286	5	10	.15	.14	18	>1	.08	15	2	.010	1.20	24	.12	.8	>2	20
277	PC919	4728.226	1418.106	>1	>1	67	4	197	6	11	.31	.22	17	>1	.18	16	2	.017	1.20	16	.20	1.6	>2	25
278	PC920	4727.199	1417.218	>1	>1	52	3	229	9	15	.17	.11	5	>1	.08	9	4	.009	.20	14	.11	.8	>2	14
279	PC921	4727.551	1417.349	8	>1	61	6	310	9	15	.22	.18	29	>1	.12	17	3	.014	2.40	20	.14	1.2	>2	26
280	PC922	4727.970	1417.405	6	>1	73	5	252	8	26	.28	.21	302	>1	.10	18	2	.012	1.90	24	.17	1.0	>2	30
281	PC923	4728.020	1417.257	1	>1	71	7	206	8	13	.26	.24	109	>1	.12	15	7	.011	.30	21	.15	1.0	>2	30
282	PC924	4726.341	1416.371	3	>1	58	2	183	6	14	.20	.14	5	>1	.09	10	2	.011	3.40	14	.12	.6	>2	17
283	PC925	4729.864	1415.890	4	>1	124	8	218	12	10	.67	.50	122	>1	.26	23	4	.026	.90	39	.23	1.2	>2	54
284	PC926	4727.148	1416.280	2	>1	79	3	243	8	25	.42	.21	5	>1	.14	16	4	.012	2.40	18	.27	1.8	>2	22
285	PC927	4720.522	1415.585	2	>1	176	14	173	37	37	1.13	.64	227	>1	.56	39	4	.108	4.00	53	.27	1.8	>2	66
286	PC928	4720.292	1414.875	1	>1	161	10	195	24	26	.98	.58	12	>1	.46	38	5	.103	4.00	51	.26	2.0	>2	58
287	PC929	4720.489	1414.255	8	>1	174	13	180	21	26	1.12	.66	58	>1	.41	28	3	.090	4.50	60	.29	1.8	>2	67
288	PC930	4721.272	1414.993	1	>1	137	4	188	24	21	.71	.43	176	>1	.48	48	3	.090	.50	36	.20	1.6	>2	51
289	PC931	4720.589	1414.142	>1	>1	222	12	224	34	26	1.04	.67	474	>1	.45	35	5	.046	4.80	61	.29	1.8	>2	77
290	PC932	4720.578	1413.283	>1	>1	200	13	166	16	24	1.11	.68	44	>1	.45	35	5	.046	3.10	51	.29	1.8	>2	58
291	PC933	4721.537	1413.813	4	>1	165	7	132	13	26	.73	.47	4	>1	.33	24	2	.043	3.00	35	.22	1.6	>2	41
292	PC934	4724.870	1414.558	>1	>1	99	6	111	8	16	.43	.25	19	>1	.27	12	3	.013	4.00	22	.18	1.6	>2	23
293	PC935	4725.790	1414.835	3	>1	114	4	107	7	14	.40	.24	21	>1	.24	14	2	.015	.20	22	.16	1.2	4	23
294	PC936	4725.821	1414.636	4	>1	102	6	122	10	10	.52	.32	32	>1	.22	18	2	.040	3.20	27	.19	1.6	>2	33
295	PC937	4727.020	1414.840	>1	>1	184	10	183	20	10	.51	.37	130	>1	.31	28	2	.070	3.40	39	.23	1.2	>2	47
296	PC938	4728.068	1413.080	>1	>1	195	15	150	55	45	1.29	.85	326	>1	.59	47	5	.145	.70	62	.31	2.0	>2	83
298	PC940	4727.962	1413.500	9	>1	134	9	170	31	22	.75	.50	88	>1	.36	28	4	.081	1.90	39	.22	2.0	>2	49
299	PC941	4723.981	1412.931	6	>1	218	3	105	9	15	.72	.41	51	>1	.62	16	2	.020	1.90	39	.21	1.6	>2	32
300	PC942	4722.998	1412.242	>1	>1	129	8	282	13	13	.59	.39	46	>1	.41	31	2	.033	2.60	39	.20	1.6	3	38

List of Geochemical Analysis ( 7 )

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn	
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
301	PC943		4723.203	1412.143	13	>	209	12	159	23	27	1.05	.65	121	2	.58	42	3	.144	2.20	58	.28	1.8	>	51	
302	PC944		4722.128	1411.895	2	>	175	12	130	20	30	1.03	.63	52	2	.47	45	7	.209	1.70	56	.28	2.0	>	66	
303	PC945		4722.287	1411.851	7	>	162	5	83	12	18	.73	.44	19	1	.55	26	2	.051	2.50	42	.22	2.0	>	39	
304	PC946		4722.487	1411.713	1	>	202	13	151	22	30	1.38	.78	73	1	.65	57	2	.093	2.20	70	.34	2.2	>	76	
305	PC947		4725.941	1411.173	9	>	175	13	151	25	32	.80	.58	308	1	.46	40	2	.118	4.60	51	.25	2.0	3	60	
306	PC948		4727.154	1411.516	4	>	102	7	113	9	20	.50	.31	34	1	.27	24	2	.040	6.10	29	.18	1.4	2	36	
307	PC949		4728.554	1412.644	4	>	171	15	152	41	44	.99	.79	301	1	.51	59	2	.151	6.10	49	.30	1.5	2	71	
308	PC950		4729.589	1411.661	2	>	97	4	93	10	10	.46	.31	63	1	.25	26	2	.027	1.80	27	.17	1.2	2	34	
310	PC952		4726.417	1410.550	11	>	86	3	134	10	10	.42	.25	53	1	.26	24	6	.018	.90	23	.18	1.6	2	30	
311	PC953		4726.656	1410.556	11	>	126	8	133	19	26	.52	.36	120	1	.34	34	2	.096	4.20	37	.19	1.4	2	43	
312	PC954		4720.260	1410.875	4	>	123	8	181	17	34	.67	.43	121	1	.29	34	5	.096	4.10	35	.20	1.6	2	52	
313	PC955		4720.260	1410.875	4	>	135	7	202	15	39	.75	.48	13	1	.28	42	4	.046	2.90	45	.27	2.0	2	64	
314	PC956		4727.721	1412.943	9	>	186	10	161	18	42	1.07	.62	182	1	.37	50	4	.061	2.30	55	.33	2.6	2	74	
315	PC957		4727.289	1413.859	1	>	119	7	124	11	26	.57	.39	40	1	.27	29	2	.029	.30	34	.20	1.8	2	42	
316	PC958		4720.475	1415.815	3	>	145	11	271	27	22	.87	.87	342	1	.34	72	2	.027	4.70	41	.34	1.4	2	88	
317	PC959		4721.220	1409.846	14	>	172	9	163	31	31	1.13	.70	51	1	.54	51	3	.135	4.00	56	.32	2.0	2	80	
318	PC960		4721.220	1409.737	14	>	146	10	137	17	25	.83	.52	7	1	.44	40	2	.085	3.30	46	.28	1.8	2	56	
319	PC961		4722.396	1409.479	7	>	126	10	141	15	22	.70	.44	19	1	.28	43	2	.039	1.60	42	.23	1.8	2	59	
320	PC962		4726.254	1409.899	5	>	136	11	126	17	32	1.03	.57	132	1	.43	45	2	.046	4.40	49	.29	2.0	2	59	
321	PC963		4728.538	1409.974	7	>	151	10	125	19	33	.98	.57	26	2	.24	30	7	.024	3.40	44	.23	1.8	2	68	
322	PC964		4728.676	1409.979	8	>	101	10	135	14	23	.45	.30	293	1	.35	42	4	.051	1.60	48	.31	2.2	2	51	
323	PC965		4726.649	1409.469	11	>	195	20	137	29	42	1.11	.68	237	1	.19	30	6	.028	4.00	34	.20	2.2	2	69	
324	PC966		4728.855	1409.061	12	>	189	21	131	30	25	1.15	.74	222	1	.49	58	5	.052	6.20	62	.27	1.8	2	37	
325	PC967		4722.522	1407.885	5	>	138	10	147	20	34	1.00	.61	85	1	.58	51	6	.092	2.20	63	.25	2.0	2	75	
326	PC968		4724.782	1408.725	4	>	117	8	239	21	34	.64	.44	105	1	.48	53	2	.027	2.60	54	.29	1.8	2	66	
327	PC969		4728.538	1408.876	6	>	225	19	129	38	28	1.40	.79	327	1	.31	44	2	.037	1.80	41	.22	1.8	2	56	
328	PC970		4726.103	1408.170	10	>	105	8	167	16	21	.64	.38	143	1	.68	57	2	.108	4.80	83	.32	2.2	2	89	
329	PC971		4726.231	1408.250	10	>	131	8	139	24	25	.74	.48	104	1	.30	39	2	.088	4.40	42	.21	1.6	2	49	
330	PC972		4726.352	1408.012	11	>	154	16	177	31	33	1.15	.72	255	1	.40	43	4	.098	4.40	42	.21	1.6	2	56	
331	PC973		4728.095	1407.667	6	>	139	12	151	27	39	.76	.52	55	1	.53	54	2	.058	4.40	42	.21	1.6	2	72	
332	PC974		4728.274	1407.598	6	>	137	13	243	27	30	.81	.72	134	1	.39	45	3	.082	3.30	45	.23	2.4	2	64	
333	PC975		4729.796	1407.823	5	>	160	16	311	31	40	.97	.72	195	1	.54	59	5	.066	4.10	50	.25	1.6	3	61	
334	PC976		4729.816	1407.689	5	>	142	13	213	24	34	.78	.50	279	1	.56	54	2	.108	4.90	55	.30	1.8	3	66	
335	PC977		4722.222	1407.208	3	>	145	11	162	18	34	1.03	.60	21	1	.36	45	2	.097	1.40	47	.22	1.6	2	62	
336	PC978		4723.819	1405.924	3	>	138	12	158	21	31	.93	.62	27	1	.50	53	2	.026	2.30	57	.32	2.2	2	68	
337	PC979		4722.331	1407.244	14	>	144	16	132	19	43	1.08	.55	470	1	.45	52	2	.027	3.20	54	.33	2.2	2	70	
338	PC980		4723.949	1405.905	13	>	144	17	172	19	43	1.08	.58	50	1	.49	52	2	.027	2.0	52	.33	2.2	2	64	
339	PC981		4727.419	1406.442	1	>	110	8	243	16	20	.62	.40	5	1	.37	35	2	.052	3.00	38	.22	2.0	2	65	
340	PC982		4728.011	1406.429	5	>	116	12	192	22	35	.75	.55	151	1	.48	48	2	.052	3.60	44	.24	1.4	3	52	
341	PC983		4721.708	1405.358	2	>	162	17	180	29	70	1.18	.60	53	1	.34	58	2	.020	3.30	51	.33	2.2	4	52	
342	PC984		4721.787	1405.304	3	>	114	9	204	15	28	.73	.39	81	1	.28	38	10	.043	5.10	50	.23	2.0	3	60	
343	PC985		4720.923	1404.808	1	>	146	10	154	16	35	.95	.52	108	1	.40	44	2	.021	5.0	52	.30	2.0	2	49	
344	PC986		4724.013	1404.991	7	>	185	11	123	31	46	1.31	.74	124	1	.45	62	2	.016	2.60	64	.41	2.6	2	64	
345	PC987		4724.557	1404.561	8	>	141	9	160	20	51	.93	.64	5	1	.47	51	2	.055	3.50	53	.31	2.0	2	81	
346	PC988		4724.671	1404.581	2	>	170	10	151	24	26	1.38	.73	378	1	.60	61	2	.034	3.20	62	.38	2.0	2	74	
347	PC989		4724.741	1404.472	11	>	208	20	124	33	74	1.67	.90	31	1	.69	72	2	.016	4.40	74	.58	3.0	2	80	
348	PC990		4727.167	1405.045	10	>	79	9	180	12	22	.40	.31	15	1	.30	34	3	.033	4.20	30	.19	1.4	2	39	
349	PC991		4724.564	1404.064	7	>	162	15	155	20	33	1.18	.68	18	1	.59	55	2	.031	4.60	61	.36	2.4	2	88	
350	PC992		4726.618	1404.198	7	>	33	5	413	4	12	.09	.04	36	1	.03	17	2	.015	3.40	12	.13	2.8	2	14	

List of Geochemical Analysis ( 8)

Ser. No.	Sample No.	Location (km)	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn ppm	Nb ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
351	PCr36	4720.178	1403.553	1	184	16	146	23	41	1.28	.73	5	1	.72	50	7	.123	2.10	60	.83	2.0	2	71
352	PCr37	4720.208	1403.444	4	157	5	240	14	28	.46	.24	5	1	.17	27	9	.023	1.90	31	.19	2.0	2	37
353	PCr38	4720.767	1403.188	3	157	8	161	16	20	1.04	.52	5	1	.40	43	17	.031	.90	48	.28	2.0	2	51
354	PCr39	4721.212	1403.637	15	152	18	132	29	56	1.59	.81	86	1	.53	60	12	.021	2.70	66	.39	2.8	2	85
355	PCr40	4721.313	1403.528	13	147	8	150	18	34	1.08	.62	5	1	.57	48	4	.026	2.90	55	.31	2.2	2	62
356	PCr41	4726.043	1403.723	6	147	13	210	22	35	.97	.66	83	1	.54	69	13	.024	3.20	51	.29	2.2	2	68
357	PCr42	4726.153	1403.649	13	103	7	229	21	25	.53	.47	83	1	.39	44	14	.024	2.90	38	.21	1.5	2	56
358	PCr43	4725.833	1402.853	7	71	6	190	10	20	.33	.25	16	1	.21	29	9	.026	3.30	27	.17	1.4	2	34
359	PCr44	4724.644	1402.867	12	184	14	133	26	33	1.34	.70	93	1	.51	58	11	.018	2.0	64	.40	2.4	2	72
360	PCr45	4722.806	1402.268	2	142	16	150	15	37	.89	.51	27	1	.44	52	12	.036	5.90	55	.31	2.2	2	64
361	PCr46	4724.700	1402.594	1	180	19	158	23	44	1.18	.67	5	1	.52	57	18	.035	2.0	61	.38	2.6	2	77
362	PCr47	4724.785	1402.515	4	98	10	247	17	29	.45	.41	52	1	.31	35	7	.039	.80	95	.20	1.6	2	49
363	PCr48	4723.651	1401.229	1	151	9	162	16	33	.81	.55	30	1	.46	51	5	.032	5.10	57	.32	2.0	2	57
364	PCr49	4723.944	1401.418	1	80	7	300	14	10	.38	.31	5	1	.26	32	9	.039	1.40	30	.21	1.4	2	42
365	PCr50	4723.288	1400.144	13	95	10	150	13	28	.45	.23	77	1	.14	31	6	.019	3.40	34	.20	1.5	2	42
366	PCr51	4721.299	1405.421	3	141	13	175	16	28	.83	.55	106	1	.57	48	6	.020	6.40	96	.31	2.0	2	64
367	PCr52	4722.139	1406.721	19	127	12	158	22	37	1.13	.68	5	1	.65	53	12	.025	1.20	60	.35	2.0	2	79
368	PCJ01	4722.627	1399.709	14	127	10	187	15	21	.69	.46	52	1	.85	40	13	.029	3.80	45	.27	2.0	2	56
369	PCJ02	4722.627	1399.602	5	127	8	198	13	56	.64	.33	58	1	.18	32	13	.018	3.00	34	.22	1.2	2	48
370	PCJ03	4723.467	1399.515	10	97	8	145	13	61	.44	.29	54	1	.15	29	13	.037	2.40	35	.19	1.4	2	47
371	PCJ04	4723.566	1399.704	20	97	9	153	12	43	.41	.25	5	1	.11	31	14	.036	2.40	35	.19	1.2	2	47
372	PCJ05	4721.883	1399.323	17	122	10	152	16	52	.61	.45	24	1	.33	39	13	.057	1.10	41	.23	1.6	2	65
373	PDf01	4737.097	1420.385	1	86	24	732	25	115	.43	2.07	884	1	.68	110	2	.045	9.60	64	.69	1.0	2	89
374	PDf02	4737.217	1420.276	1	50	34	665	43	12	.48	3.73	1163	1	1.15	172	2	.042	5.70	68	.84	1.6	2	78
375	PDf03	4732.389	1421.378	10	127	11	221	17	21	.60	.67	86	2	.30	57	4	.030	9.50	40	.33	1.6	2	61
376	PDf04	4731.191	1420.328	18	95	7	203	11	12	.48	.47	132	1	.21	35	13	.018	2.60	30	.23	1.8	2	43
377	PDf05	4733.929	1423.513	2	127	11	213	17	19	.53	.74	174	1	.33	52	8	.030	2.80	38	.24	1.8	2	54
378	PDf06	4734.127	1423.513	1	169	11	165	31	20	.84	.86	392	1	.56	52	8	.038	6.30	47	.32	1.8	2	64
379	PDf07	4733.071	1422.991	2	110	11	178	23	17	.62	.63	237	1	.30	37	4	.021	3.50	37	.27	1.8	2	55
380	PDf08	4733.102	1422.827	11	54	3	249	7	10	.19	.24	75	1	.09	29	11	.012	1.20	19	.25	1.4	2	32
381	PDf09	4734.111	1422.727	12	151	7	202	21	18	.64	.76	342	1	.44	51	3	.036	4.30	40	.28	1.4	2	60
382	PDf10	4735.903	1422.884	12	124	5	184	14	17	.55	.54	180	1	.24	36	13	.051	3.00	38	.25	1.6	2	49
383	PDf11	4735.182	1422.230	15	144	10	214	19	11	.53	.68	253	1	.39	48	10	.033	2.30	37	.27	1.6	2	56
384	PDf12	4735.355	1422.256	7	102	9	235	11	23	.45	.44	171	1	.24	39	9	.013	1.40	34	.24	1.6	2	42
385	PDf13	4733.261	1420.686	9	136	12	238	18	17	.63	.77	232	1	.31	69	2	.025	3.30	43	.34	2.0	2	65
386	PDf14	4734.309	1420.795	11	120	9	238	17	17	.51	.54	394	1	.37	47	5	.035	7.80	41	.31	2.0	2	54
387	PDf15	4734.234	1420.640	1	186	11	185	30	18	.90	.96	223	1	.57	65	5	.078	2.40	59	.35	2.0	2	86
388	PDf16	4734.917	1420.261	14	168	11	143	24	16	.69	.80	273	1	.41	49	11	.083	2.30	47	.28	2.0	2	71
389	PDf17	4737.376	1421.350	6	94	22	352	22	10	.39	1.65	543	1	.36	81	2	.026	9.60	69	.60	1.4	2	62
390	PDf18	4737.545	1421.271	1	93	22	504	31	20	.39	1.46	198	1	.52	206	3	.030	13.20	56	.63	1.2	2	97
391	PDf19	4737.069	1420.991	1	65	26	1774	19	10	.21	2.34	942	1	.52	206	3	.030	13.20	56	.63	1.2	2	97
392	PDf20	4731.749	1419.720	1	95	9	258	13	20	.43	.49	126	1	.21	38	9	.024	6.20	29	.24	1.2	2	50
393	PDf21	4730.371	1417.298	8	31	19	270	4	252	.06	.05	33	1	.05	12	6	.010	4.00	11	.10	1.0	2	12
394	PDf22	4730.485	1417.333	1	88	11	716	20	23	.39	.80	639	1	.61	98	10	.020	4.80	24	.50	1.0	2	63
395	PDf23	4730.265	1415.782	2	83	6	162	10	17	.29	.27	70	1	.12	17	5	.016	4.20	26	.16	1.6	2	30
396	PDf24	4730.369	1415.678	2	153	14	243	18	20	.73	1.16	306	1	.30	84	4	.038	3.60	39	.25	1.4	2	66
397	PDf25	4731.559	1416.057	1	139	18	183	18	25	.65	.87	195	1	.29	60	6	.038	4.10	37	.25	2.0	2	57
398	PDf26	4730.497	1414.903	8	131	15	281	17	14	.70	1.05	193	1	.32	84	9	.032	4.10	37	.25	1.8	2	63
399	PDf27	4730.567	1414.740	10	150	14	274	21	16	.75	1.10	356	1	.35	83	11	.042	6.90	40	.26	1.4	2	72
400	PDf28	4731.926	1410.000	12	95	6	194	21	10	.37	.38	92	1	.24	32	3	.030	4.80	26	.19	1.6	2	41

List of Geochemical Analysis ( 9 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
401	PDg10	4732.480 1419.476	10	>	456	13	217	27	28	.79	.67	256	>	.40	45	11	.091	4.60	53	.27	2.0	>	79
402	PDg11	4733.557 1418.686	16	>	360	9	207	25	26	.78	.72	381	>	.42	48	7	.039	2.90	48	.30	2.0	>	68
403	PDg12	4734.567 1418.164	19	>	534	10	242	19	24	.85	.83	282	>	.44	61	9	.041	9.20	55	.32	2.0	>	75
404	PDg13	4735.420 1419.341	10	>	452	11	270	25	20	.69	.79	273	>	.46	53	10	.094	6.50	51	.29	2.0	>	83
405	PDg14	4735.619 1419.307	10	>	170	15	471	29	27	.59	1.73	563	>	.63	101	6	.052	11.40	58	.47	1.6	>	72
406	PDg15	4736.070 1419.394	23	>	413	22	487	31	19	.69	2.56	556	>	.93	142	2	.045	9.30	79	.55	1.6	>	83
407	PDg16	4737.787 1419.746	12	>	71	28	717	30	10	.39	2.73	1321	>	.59	137	2	.033	5.30	46	.73	.8	>	70
408	PDg17	4737.788 1419.621	10	>	56	30	524	59	17	.74	3.75	1017	>	1.14	174	2	.052	1.20	76	.36	.6	>	72
409	PDg18	4735.384 1417.582	10	>	66	39	906	55	10	.61	4.05	1032	>	1.41	301	2	.043	10.30	89	.65	.8	>	87
410	PDg19	4735.355 1417.402	10	>	539	35	559	39	17	.97	2.84	675	>	1.04	196	2	.061	10.30	91	.51	1.4	>	83
411	PDg20	4736.609 1417.841	10	>	514	41	565	68	19	.50	4.59	1134	>	1.52	323	2	.064	7.50	109	.54	.4	>	96
412	PDg21	4739.721 1418.329	10	>	26	47	555	42	10	.30	5.56	1330	>	1.52	297	2	.064	9.40	82	.98	.2	>	86
413	PDg22	4739.839 1418.319	10	>	67	29	381	30	10	.20	2.67	1038	>	.94	90	2	.035	9.40	54	.90	.4	>	54
414	PDg23	4739.673 1417.876	10	>	559	38	722	34	12	.24	4.72	1541	>	1.79	147	2	.059	12.80	93	1.64	.2	>	75
415	PDg24	4739.706 1417.379	10	>	19	46	960	40	10	.19	5.41	1409	>	1.45	245	2	.051	7.70	80	.89	.4	>	79
416	PDg25	4732.706 1415.988	10	>	138	12	206	19	35	.71	.94	226	>	.34	64	2	.033	4.50	39	.24	1.8	>	49
417	PDg26	4733.148 1416.035	10	>	155	11	218	18	19	.73	.79	88	>	.41	56	4	.056	1.00	44	.21	2.0	>	52
418	PDg27	4734.097 1415.880	10	>	186	12	248	37	20	1.04	1.43	331	>	.51	100	4	.058	7.70	42	.25	1.8	>	59
419	PDg28	4734.226 1415.965	10	>	118	12	269	25	10	.68	1.34	310	>	.59	93	2	.066	6.20	50	.29	1.2	>	64
420	PDg29	4738.681 1416.649	10	>	40	55	525	58	13	.43	4.74	1356	>	1.72	361	2	.043	4.60	50	.75	1.2	>	83
421	PDg30	4739.413 1416.245	10	>	530	36	565	46	10	.34	4.50	1071	>	1.71	227	2	.065	8.70	72	.75	.4	>	83
422	PDg31	4734.868 1414.711	7	>	127	13	307	17	10	.46	.93	281	>	.36	71	2	.034	5.00	100	.89	.2	>	76
423	PDg32	4733.812 1413.284	10	>	227	15	249	48	10	.94	1.75	469	>	.50	121	2	.075	7.20	38	.29	1.4	>	48
424	PDg33	4734.828 1413.623	10	>	232	14	220	37	18	.74	1.37	384	>	.43	94	2	.059	3.10	42	.33	1.6	>	67
425	PDg34	4736.261 1414.042	10	>	543	35	719	34	10	.41	3.17	646	>	1.54	156	2	.061	9.70	124	.43	.4	>	71
426	PDg35	4737.537 1414.153	10	>	673	53	1417	48	10	.25	6.80	853	>	1.37	541	2	.069	8.00	95	.44	.2	>	67
427	PDg36	4738.608 1413.393	10	>	517	30	391	62	10	.16	3.41	836	>	1.61	122	2	.054	9.30	89	.75	.2	>	102
428	PDg37	4735.442 1412.964	10	>	129	10	215	16	13	.44	1.30	393	>	.97	109	4	.024	6.30	36	.20	1.6	>	85
429	PDg38	4736.519 1413.188	10	>	228	23	555	24	15	.30	2.32	603	>	.97	132	2	.047	6.90	87	.37	.6	>	47
430	PDg39	4736.608 1413.169	10	>	444	53	2698	47	10	.21	6.58	1017	>	1.31	505	2	.083	10.30	99	.53	.4	>	86
431	PDg40	4735.868 1412.226	7	>	252	14	254	24	19	.52	1.12	271	>	.45	73	2	.066	6.50	47	.34	2.0	>	121
432	PDg41	4735.903 1412.012	4	>	140	5	134	14	12	.29	.45	95	>	.28	35	2	.020	4.00	27	.16	1.6	>	61
433	PDg42	4736.793 1412.777	10	>	279	45	1769	35	10	.21	6.17	831	>	1.03	498	2	.052	10.90	82	.41	.4	>	33
434	PDg43	4739.473 1412.095	10	>	267	27	513	63	12	.19	2.81	775	>	1.34	105	2	.050	3.80	82	.83	.4	>	98
435	PDg44	4739.002 1412.898	10	>	339	38	482	85	10	.21	3.17	980	>	1.65	108	2	.059	8.10	104	1.21	.6	>	68
436	PDg45	4737.281 1411.651	2	>	75	5	170	8	10	.28	1.16	99	>	.19	106	3	.016	2.50	25	.15	1.0	>	71
437	PDg46	4738.789 1411.868	10	>	189	8	143	11	14	.48	.40	517	>	.18	25	8	.022	2.60	37	.19	1.6	>	32
438	PDg47	4739.510 1411.697	3	>	69	4	119	5	10	.21	.15	70	>	.05	20	3	.012	4.10	17	.13	1.2	>	40
439	PDg48	4732.950 1409.985	9	>	150	7	178	20	10	.35	.42	113	>	.24	40	2	.034	3.50	27	.16	1.5	>	18
440	PDg49	4733.433 1410.584	6	>	408	6	160	12	13	.71	.53	145	>	.28	25	2	.073	2.30	44	.22	2.0	>	37
441	PDg50	4734.178 1410.632	6	>	107	6	244	13	14	.48	.62	183	>	.17	57	2	.022	1.50	44	.22	2.0	>	45
442	PDg51	4734.587 1411.052	10	>	85	6	283	13	15	.38	.62	68	>	.24	41	6	.021	1.30	25	.16	1.4	>	37
443	PDg52	4737.273 1411.164	10	>	100	15	239	17	16	.43	1.01	247	>	.40	74	5	.046	5.20	39	.30	1.4	>	31
444	PDg53	4738.757 1411.236	10	>	96	9	128	10	13	.37	.96	132	>	.16	27	2	.015	3.70	26	.16	1.2	>	52
445	PDg54	4735.321 1411.229	5	>	98	4	135	15	13	.37	.44	38	>	.24	32	2	.024	3.70	28	.16	1.5	>	31
446	PDg55	4732.736 1415.874	10	>	127	11	167	23	18	.78	.85	86	>	.37	55	2	.057	2.0	37	.25	1.6	>	33
447	PDH01	4730.390 1407.810	10	>	138	11	156	17	21	.67	.50	102	>	1.60	32	6	.082	5.70	46	.20	1.8	>	54
448	PDH02	4733.072 1409.970	10	>	66	36	686	54	15	.54	3.75	448	>	1.60	219	2	.058	11.80	58	.30	.8	>	54
449	PDH03	4734.285 1407.845	10	>	68	4	161	6	10	.20	.15	5	>	.15	16	2	.013	2.00	22	.14	1.6	>	65
450	PDH04	4734.334 1407.682	10	>	72	4	257	7	10	.24	.19	5	>	.13	18	2	.013	3.10	22	.15	1.4	>	66

List of Geochemical Analysis ( 10 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
451	PDh05	4735.295 1408.229	10	>	183	2	183	6	11	.24	.17	7	>	.13	14	>	.012	>	22	.13	1.4	>	23
452	PDh06	4736.886 1408.267	4	>	202	3	227	7	11	.25	.18	5	>	.14	15	4	.012	>	24	.12	1.0	>	25
453	PDh07	4737.000 1408.212	3	>	93	4	205	6	13	.26	.13	8	>	.04	11	4	.011	2.40	24	.14	1.0	>	25
454	PDh08	4737.439 1408.973	9	>	86	3	222	7	16	.23	.16	42	>	.13	15	3	.013	3.00	18	.14	1.6	>	19
455	PDh09	4738.292 1408.755	5	>	74	2	317	10	10	.23	.58	160	>	.25	49	2	.016	4.80	28	.20	1.4	>	20
456	PDh10	4738.421 1408.741	8	93	91	11	291	16	10	.32	.95	267	>	.35	68	2	.026	7.50	35	.29	1.6	>	28
457	PDh11	4739.136 1404.688	1	>	110	23	368	19	10	.37	1.46	818	>	.41	173	2	.033	10.50	61	.51	1.8	>	45
458	PDh12	4739.248 1409.075	7	5	105	3	260	8	13	.32	.26	83	>	.13	20	7	.012	3.70	25	.15	1.6	>	58
459	PDh13	4739.313 1408.981	4	>	84	2	302	6	10	.21	.13	17	>	.06	20	4	.011	1.40	17	.12	1.6	>	28
460	PDh14	4739.818 1408.639	2	>	56	1	237	5	10	.14	.07	5	>	.05	14	4	.010	1.40	15	.10	1.0	>	21
461	PDh15	4736.269 1406.423	9	>	60	3	474	5	10	.15	.04	60	>	.01	108	2	.010	2.20	13	.13	1.2	>	14
462	PDh16	4736.250 1406.279	8	>	142	3	250	6	10	.26	.09	16	>	.04	11	2	.011	3.60	17	.14	2.4	>	18
463	PDh17	4737.923 1407.086	10	>	170	1	290	7	12	.27	.31	68	>	.07	14	2	.012	3.00	19	.14	1.8	>	21
464	PDh18	4737.958 1406.942	16	>	91	5	247	7	10	.27	.15	16	>	.16	28	2	.015	3.40	23	.14	1.4	>	31
465	PDh19	4739.419 1407.048	10	>	71	2	231	5	10	.27	.11	22	>	.06	13	5	.011	2.00	16	.11	1.2	>	21
466	PDh20	4739.520 1406.507	2	>	62	1	433	8	16	.24	1.15	411	>	.19	138	2	.012	2.50	20	.15	1.0	>	16
468	PDh22	4732.062 1402.805	14	>	60	1	382	5	10	.18	.12	73	>	.06	18	2	.015	1.60	16	.10	.8	>	27
469	PDh23	4731.492 1403.087	10	>	127	3	265	9	16	.38	.21	66	>	.11	23	2	.025	2.30	22	.10	1.4	>	14
470	PDh24	4735.251 1404.439	5	>	101	2	315	10	15	.32	.25	47	>	.18	26	4	.025	1.60	25	.13	1.4	>	25
471	PDh25	4736.271 1404.957	5	>	85	7	326	9	10	.35	.40	83	>	.23	35	2	.015	2.20	25	.14	1.4	>	31
472	PDh26	4736.854 1405.957	12	>	71	3	266	8	10	.29	.28	81	>	.22	33	4	.013	4.40	21	.14	1.2	>	28
473	PDh27	4736.943 1405.912	8	>	82	4	237	9	10	.43	.51	87	>	.18	34	5	.014	1.80	24	.16	1.4	>	30
474	PDh28	4736.327 1405.373	1	>	69	7	233	8	10	.32	.40	46	>	.23	36	3	.015	3.00	23	.14	1.4	>	26
475	PDh29	4738.988 1403.918	4	>	71	7	344	11	10	.35	.66	208	>	.29	45	2	.018	5.00	30	.24	1.4	>	28
476	PDh30	4738.186 1403.887	6	>	123	23	909	26	25	.96	1.62	624	>	.30	196	3	.024	10.40	46	.29	1.2	>	61
477	PDh31	4731.507 1402.923	8	>	55	5	327	8	10	.25	.46	175	>	.30	35	2	.015	1.80	25	.23	2.0	>	24
478	PDh32	4735.070 1402.884	1	>	79	8	186	12	17	.45	.27	5	>	.23	26	3	.019	5.40	27	.18	1.4	>	32
479	PDh33	4736.457 1402.821	8	>	59	1	179	5	11	.21	.09	5	>	.05	11	6	.012	1.20	16	.13	1.4	>	13
480	PDh34	4736.478 1402.662	4	>	87	3	181	8	11	.40	.23	46	>	.13	18	2	.013	2.90	25	.14	1.2	>	26
481	PDh35	4737.078 1402.624	7	>	66	3	135	5	10	.28	.09	5	>	.07	9	4	.010	2.50	16	.13	1.2	>	13
482	PDh36	4736.979 1402.330	4	>	84	3	128	7	10	.35	.17	5	>	.10	12	2	.013	2.50	23	.15	1.6	>	20
483	PDh37	4737.647 1401.823	5	>	55	1	221	4	10	.20	.09	5	>	.04	13	2	.011	2.20	14	.10	1.0	>	12
484	PDh38	4737.683 1402.386	7	>	52	2	199	4	10	.18	.07	5	>	.03	11	5	.010	1.90	14	.12	1.0	>	11
485	PDh39	4737.939 1402.828	11	>	67	4	204	4	10	.21	.08	15	>	.03	11	2	.012	1.50	15	.11	1.6	>	15
486	PDh40	4739.005 1402.711	11	>	61	3	405	5	10	.27	.11	5	>	.07	11	2	.012	4.00	16	.12	1.6	>	24
487	PDh41	4739.619 1403.204	7	>	68	7	463	9	12	.22	.27	85	>	.11	39	2	.024	4.00	19	.14	1.6	>	24
488	PDh42	4731.962 1400.222	16	>	113	11	172	22	51	.26	.29	111	>	.13	42	2	.032	3.90	19	.14	1.0	>	27
489	PDh43	4733.676 1400.458	9	>	77	5	252	9	13	.36	.42	5	>	.26	38	6	.015	4.00	40	.24	1.6	>	56
490	PDh44	4738.870 1400.557	7	>	71	5	211	6	10	.30	.20	49	>	.09	20	7	.021	2.30	22	.14	1.2	>	27
491	PDh45	4738.949 1400.453	8	>	65	4	223	6	10	.27	.13	12	>	.05	17	2	.010	2.00	16	.14	1.2	>	17
492	PDh46	4738.067 1400.105	4	>	69	9	292	10	10	.26	.28	303	>	.17	28	8	.013	2.00	16	.09	.8	>	15
493	PDh47	4738.097 1400.310	7	>	65	4	258	7	13	.27	.28	31	>	.17	28	8	.013	4.20	24	.33	1.2	>	31
494	PDh48	4739.247 1400.242	14	>	68	8	307	10	20	.30	.59	181	>	.14	18	2	.012	3.10	22	.17	1.2	>	21
495	PDh49	4739.450 1400.456	3	>	59	3	213	5	19	.23	.08	5	>	.26	41	2	.019	2.80	29	.24	1.2	>	29
496	PDh50	4739.646 1401.275	7	>	32	2	205	4	14	.11	.05	30	>	.06	11	4	.018	2.50	11	.13	.8	>	15
497	PDh51	4730.762 1401.243	3	>	122	13	165	19	14	.11	.05	30	>	.03	11	2	.014	5.00	9	.08	.4	>	10
498	PDh52	4739.181 1404.420	4	>	65	73	3729	15	31	.71	.46	184	>	.47	40	3	.015	3.20	46	.24	1.6	>	50
499	PDh53	4736.292 1408.067	6	>	71	2	251	5	10	.27	5.78	1526	>	.69	744	2	.040	17.60	73	.72	.6	>	99
500	PDJ01	4739.867 1397.387	9	>	53	4	339	8	11	.21	.28	246	>	.24	29	3	.012	4.70	23	.20	1.4	>	21

List of Geochemical Analysis ( 11)

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
501	PDJ02	4732.081 1397.635	1	1	76	6	186	7	20	.26	.73	88	1	.05	28	4	.018	3.00	27	.11	1.0	2	23
502	PDJ03	4731.799 1397.028	1	1	104	11	142	13	29	.52	.33	82	1	.18	37	5	.029	3.20	36	.20	1.2	2	41
503	PDJ04	4732.708 1399.116	1	1	39	4	294	5	10	.09	.07	39	1	.03	42	8	.013	1.40	13	.14	1.0	2	15
504	PDJ05	4733.252 1398.306	1	1	54	4	148	5	10	.17	.09	5	1	.03	19	6	.012	.60	13	.10	1.0	2	15
505	PDJ06	4733.495 1399.446	1	1	42	9	811	6	17	.10	.34	152	1	.07	95	8	.014	6.00	14	.14	1.0	2	13
506	PDJ07	4734.046 1398.885	1	1	29	10	571	6	11	.05	.15	355	1	.03	267	8	.015	4.70	18	.23	.6	2	27
507	PDJ08	4733.536 1398.696	1	1	32	7	492	6	10	.07	.14	222	1	.03	144	8	.013	6.40	12	.19	.8	2	16
508	PDJ09	4736.338 1399.898	1	1	68	4	146	10	10	.21	.12	28	1	.10	67	9	.019	4.20	19	.13	1.0	2	14
509	PDJ10	4736.373 1399.740	1	1	89	5	173	12	10	.34	.27	152	1	.13	40	9	.020	5.80	29	.19	1.2	2	20
510	PDJ11	4736.715 1399.780	1	1	156	22	159	19	11	.68	.75	691	1	.53	84	2	.021	8.90	58	.81	1.4	2	31
511	PDJ12	4734.173 1396.908	1	1	27	1	93	3	10	.05	.01	5	1	.01	19	11	.011	2.90	8	.09	.6	2	88
512	PDJ13	4735.551 1396.742	1	1	28	1	112	3	10	.06	.01	5	1	.01	19	11	.011	2.90	8	.09	.6	2	88
513	PDJ14	4738.548 1397.553	1	1	223	48	481	37	10	1.11	2.17	1109	1	.91	175	2	.027	14.50	109	1.61	1.4	2	6
514	PEF01	4739.560 1397.053	1	1	168	41	585	30	13	.70	1.91	996	1	.77	179	2	.025	8.20	100	1.36	1.0	2	7
515	PEF02	4740.513 1423.166	1	1	68	3	102	6	10	.18	.15	83	1	.04	30	7	.012	6.10	17	.15	1.0	2	137
516	PEF03	4741.466 1424.120	1	1	56	5	139	9	11	.21	.35	52	1	.10	49	5	.013	2.60	15	.14	1.2	2	18
517	PEF04	4741.466 1424.120	1	1	67	5	166	9	10	.17	.32	96	1	.10	49	9	.013	2.70	15	.14	1.2	2	22
518	PEF05	4742.041 1423.630	1	1	66	5	166	9	10	.20	.28	88	1	.09	39	6	.013	4.40	17	.15	1.2	2	22
519	PEF06	4741.893 1423.089	1	1	66	11	402	14	11	.24	.65	305	1	.17	66	8	.015	6.00	24	.25	1.2	2	21
520	PEF07	4743.202 1421.306	1	1	72	10	179	14	10	.24	.56	289	1	.16	57	8	.014	7.90	23	.21	1.0	2	40
521	PEF08	4744.034 1420.659	1	1	151	9	95	15	10	.52	.63	440	1	.43	41	6	.024	5.90	54	.35	2.0	2	33
522	PEF09	4745.202 1421.306	1	1	139	11	172	18	19	.51	.68	519	1	.38	48	12	.027	2.80	47	.48	1.4	2	58
523	PEF10	4744.378 1421.431	1	1	63	1	118	6	10	.21	.12	5	1	.03	18	9	.012	4.00	22	.15	1.2	2	72
524	PEF11	4745.047 1421.776	1	1	85	4	154	7	11	.27	.19	14	1	.09	31	10	.015	3.70	25	.15	1.2	2	19
525	PEF12	4745.663 1421.690	1	1	82	4	136	6	10	.25	.13	66	1	.03	21	4	.012	3.00	19	.16	1.4	2	26
526	PEF13	4745.592 1421.813	1	1	74	3	158	5	10	.21	.11	70	1	.01	28	10	.012	4.40	14	.18	1.8	2	19
527	PEF14	4747.496 1420.431	1	1	71	1	100	5	10	.19	.11	32	1	.03	14	5	.010	4.90	16	.18	1.6	2	15
528	PEF15	4747.496 1420.307	1	1	89	4	121	8	10	.23	.29	84	1	.10	24	9	.015	4.10	23	.17	.8	2	25
529	PEF16	4747.556 1420.307	1	1	110	6	133	10	10	.35	.29	144	1	.18	23	10	.015	4.60	30	.18	1.2	2	35
530	PEF17	4748.124 1423.115	1	1	66	2	115	6	10	.17	.15	82	1	.04	18	5	.011	3.20	18	.14	.8	2	26
531	PEF18	4748.124 1423.300	1	1	100	7	129	11	10	.25	.42	217	1	.15	47	5	.014	4.40	25	.21	1.0	2	18
532	PEF19	4749.214 1423.608	1	1	56	4	195	6	10	.14	.23	99	1	.07	33	10	.013	1.90	17	.20	1.2	2	31
533	PEF20	4749.315 1423.206	1	1	71	5	198	15	10	.23	.50	159	1	.14	54	12	.015	3.00	22	.17	1.2	2	19
534	PEF21	4749.710 1423.794	1	1	59	1	120	5	10	.16	.20	12	1	.03	31	7	.011	1.30	16	.14	1.4	2	36
535	PEF22	4747.135 1420.037	1	1	80	1	126	7	13	.21	.48	76	1	.18	37	8	.013	4.60	21	.14	1.4	2	17
536	PEF23	4744.213 1420.526	1	1	97	10	124	12	13	.39	.47	171	1	.18	37	8	.013	4.60	21	.14	1.4	2	17
537	PEF24	4740.057 1419.354	1	1	20	4	591	33	11	.13	4.06	1699	1	.33	148	2	.046	7.90	67	.86	.2	2	42
538	PEF25	4740.157 1419.339	1	1	29	16	269	18	10	.10	.29	643	1	.23	57	8	.021	8.30	25	.60	.6	2	86
539	PEF26	4743.565 1419.209	1	1	94	8	98	11	10	.29	.43	188	1	.23	35	8	.016	3.40	28	.24	1.0	2	37
540	PEF27	4743.436 1418.168	1	1	107	10	107	15	11	.37	.49	264	2	.43	38	11	.020	4.70	36	.26	1.0	2	38
541	PEF28	4744.096 1419.494	1	1	78	3	115	7	10	.23	.19	50	1	.08	23	4	.016	2.0	21	.26	1.2	2	47
542	PEF29	4744.220 1419.430	1	1	105	9	158	12	11	.37	.43	236	1	.24	40	11	.018	4.50	30	.22	1.4	2	26
543	PEF30	4744.121 1419.286	1	1	69	6	110	8	10	.22	.28	40	1	.13	32	3	.013	2.40	22	.19	1.2	2	26
544	PEF31	4747.140 1419.621	1	1	83	4	115	9	10	.24	.32	110	2	.13	33	5	.016	3.80	21	.15	1.2	2	26
545	PEF32	4747.398 1418.398	1	1	62	5	101	9	10	.19	.23	180	1	.15	26	3	.012	3.70	20	.16	1.2	2	26
546	PEF33	4747.502 1418.479	1	1	83	3	112	9	10	.22	.23	45	1	.13	22	3	.012	3.20	20	.16	1.2	2	26
547	PEF34	4742.059 1418.263	1	1	100	5	148	10	10	.32	.35	108	1	.17	30	9	.015	2.50	32	.20	1.4	2	25
548	PEF35	4742.583 1417.713	1	1	97	6	134	10	10	.28	.33	92	1	.16	35	12	.019	5.40	28	.20	1.4	2	28
549	PEF36	4742.716 1417.738	1	1	80	5	115	10	10	.24	.27	121	1	.12	31	7	.016	2.90	22	.19	1.4	2	33
550	PEF37	4743.376 1418.005	1	1	180	23	219	35	12	.83	1.14	1007	1	.44	99	12	.024	5.20	58	.49	2.0	2	29

List of Geochemical Analysis ( 12 )

Ser. No.	Sample No.	Location (km)	X-coord	Y-coord	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
					ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
551	PE915	4740.296	1416.889	>	>	20	37	640	32	47	10	.12	4.18	1835	>	1.02	185	>	.056	12.30	71	1.61	.2	>	86
552	PE916	4740.287	1416.525	>	>	27	45	551	47	10	10	.17	4.54	1149	>	1.98	207	>	.056	7.20	92	1.08	.2	>	88
553	PE917	4740.500	1416.700	>	>	87	10	131	12	10	10	.28	.66	282	>	.29	37	8	.017	4.90	34	.27	1.4	>	35
554	PE918	4740.588	1415.920	>	>	38	37	480	31	10	10	.17	3.57	1134	>	1.74	170	2	.044	14.70	98	1.25	1.4	>	76
555	PE919	4742.720	1415.665	3	>	81	37	480	31	10	10	.22	.19	142	>	1.10	15	6	.013	5.80	23	1.15	1.4	>	25
556	PE920	4742.309	1415.890	>	>	35	42	569	32	10	10	.16	3.79	1242	>	1.21	147	2	.053	9.50	78	1.30	.6	>	78
557	PE921	4742.482	1414.097	>	>	52	31	411	27	10	10	.19	3.07	902	>	.83	127	2	.041	12.10	65	.84	.6	>	67
558	PE922	4742.965	1413.761	3	>	52	5	136	5	10	10	.19	3.07	45	>	.06	27	4	.011	.30	16	1.0	1.0	>	14
559	PE923	4743.581	1413.943	2	>	58	3	125	6	10	10	.25	12	25	>	1.0	9	4	.012	2.00	18	1.0	.8	>	17
560	PE924	4744.687	1414.479	4	>	60	4	111	6	10	10	.26	13	50	>	.07	10	6	.010	.20	16	1.1	1.0	>	13
561	PE925	4745.225	1415.426	1	>	64	4	122	6	20	10	.31	.19	5	>	.09	15	2	.012	1.50	21	1.3	1.2	>	20
562	PE926	4746.409	1416.072	2	>	52	4	194	5	18	10	.20	.08	5	>	.04	7	2	.011	.20	16	1.1	1.4	>	13
563	PE927	4746.886	1416.456	7	>	58	7	225	7	18	10	.23	.18	64	>	.16	20	2	.012	.20	23	1.7	1.4	>	22
564	PE928	4747.601	1416.321	7	>	74	5	120	5	18	10	.37	.10	5	>	.04	8	6	.009	.20	15	1.4	1.4	>	15
565	PE929	4747.961	1416.760	1	>	64	6	113	7	19	10	.33	.22	22	>	.19	17	2	.016	.20	23	1.5	1.0	>	17
566	PE930	4748.125	1416.681	2	>	70	4	160	5	30	10	.26	.20	19	>	.05	21	8	.011	.50	18	1.5	2.4	>	15
567	PE931	4748.185	1417.505	1	>	66	4	154	5	21	10	.27	.15	39	>	.06	11	7	.010	.20	16	1.3	2.0	>	15
568	PE932	4749.185	1417.449	1	>	55	6	289	4	15	10	.22	.20	26	>	.05	17	7	.010	.20	18	1.2	1.2	>	15
569	PE933	4749.171	1416.063	4	>	45	4	257	6	11	10	.18	.26	46	>	.03	35	7	.010	1.40	14	1.3	1.2	>	14
570	PE934	4749.098	1415.849	1	>	37	4	257	6	11	10	.18	.26	46	>	.03	35	7	.010	1.40	14	1.3	1.2	>	14
571	PE935	4749.098	1415.849	8	>	79	7	139	8	23	10	.12	.15	31	>	.06	25	5	.011	1.00	15	1.3	1.2	>	14
572	PE936	4749.068	1415.699	10	>	54	6	148	4	20	10	.23	.19	23	>	.10	14	7	.012	1.00	13	1.2	1.4	>	11
573	PE937	4749.864	1415.700	11	>	58	4	148	4	20	10	.23	.19	23	>	.10	14	7	.012	1.00	13	1.2	1.4	>	11
574	PE938	4745.017	1413.834	7	>	56	4	313	5	20	10	.24	.15	30	>	.08	11	10	.010	1.90	14	1.2	1.4	>	22
575	PE939	4745.195	1414.004	7	>	58	1	180	5	22	10	.22	.11	46	>	.07	11	2	.012	1.90	14	1.2	1.2	>	13
576	PE940	4746.022	1413.285	1	>	58	3	139	5	22	10	.22	.11	46	>	.07	11	4	.011	.20	17	1.1	1.0	>	18
577	PE941	4746.519	1413.547	1	>	63	2	204	5	20	10	.27	.14	43	>	.06	11	4	.011	.20	17	1.1	1.4	>	15
578	PE942	4746.688	1413.358	9	>	57	3	175	5	21	10	.24	.10	58	>	.05	11	8	.011	2.60	17	1.0	.8	>	15
579	PE943	4743.179	1412.578	5	>	45	2	161	3	27	10	.16	.08	5	>	.07	15	8	.011	.90	18	1.2	1.4	>	18
580	PE944	4743.699	1411.914	1	>	67	3	123	5	26	10	.28	.17	48	>	.04	10	8	.011	.20	14	1.0	1.0	>	14
581	PE945	4743.832	1412.084	3	>	41	2	124	3	25	10	.14	.05	25	>	.03	11	7	.011	2.50	12	1.2	1.2	>	12
582	PE946	4740.886	1412.856	3	>	23	34	358	35	28	10	.21	.35	946	>	.09	11	3	.012	2.00	20	1.1	1.2	>	23
583	PE947	4740.287	1412.791	4	>	54	23	248	22	25	10	.33	2.26	670	>	1.33	85	2	.043	5.40	82	.92	1.0	>	11
584	PE948	4741.105	1411.839	4	>	79	5	124	7	30	10	.39	.29	18	>	.12	19	5	.035	7.50	63	.66	1.2	>	62
585	PE949	4741.324	1411.895	3	>	53	4	193	5	26	10	.25	.30	47	>	.09	19	4	.011	2.70	23	1.5	1.4	>	48
586	PE950	4741.973	1411.117	10	>	62	5	126	6	26	10	.25	.19	47	>	.11	19	4	.011	.20	15	1.4	1.4	>	31
587	PE951	4747.371	1410.412	3	>	31	2	128	5	26	10	.09	.04	21	>	.03	29	8	.013	.20	15	1.1	.8	>	16
588	PE952	4747.553	1410.677	4	>	39	1	135	3	30	10	.12	.11	19	>	.03	7	7	.011	1.40	17	1.2	1.0	>	20
589	PE953	4748.255	1410.281	4	>	52	5	166	4	24	10	.17	.07	12	>	.03	15	3	.010	2.30	13	1.2	1.4	>	10
590	PE954	4747.653	1410.443	6	>	42	4	144	3	29	10	.14	.05	34	>	.03	13	5	.010	1.70	13	1.1	.8	>	10
591	PE955	4746.393	1410.110	4	>	43	3	202	3	32	10	.12	.04	19	>	.02	12	3	.010	1.70	13	1.2	.8	>	12
592	PE956	4749.665	1414.459	3	61	62	4	160	5	33	10	.23	.07	67	>	.03	11	4	.011	.20	12	.09	.6	>	9
593	PE957	4749.435	1413.558	3	>	57	4	208	4	33	10	.23	.07	67	>	.03	11	4	.011	.20	12	.09	.6	>	9
594	PE958	4749.638	1413.678	2	>	71	4	147	4	43	10	.22	.09	22	>	.03	8	5	.010	2.10	15	1.4	1.4	>	11
595	PE959	4745.879	1415.518	9	>	48	3	113	4	39	10	.26	.08	42	>	.03	10	8	.010	3.10	15	1.3	1.4	>	14
596	PE960	4743.574	1414.395	10	>	67	7	213	6	44	10	.29	.15	43	>	.04	9	6	.011	2.80	15	1.2	1.4	>	14
597	PE961	4749.374	1415.000	11	>	56	3	166	5	31	10	.23	.10	35	>	.05	9	5	.013	4.00	22	1.2	1.2	>	14
598	PE962	4742.727	1416.431	7	>	103	9	210	10	36	10	.58	.45	106	>	.21	31	7	.012	.90	14	1.0	1.2	>	14
599	PE963	4743.549	1418.249	1	>	112	28	267	30	42	10	.63	.98	806	>	.62	90	4	.020	1.10	31	1.7	1.6	>	38
600	PE901	4740.057	1408.734	1	>	41	2	194	3	30	10	.15	.03	12	>	.01	8	4	.011	3.20	46	.50	1.2	>	9



List of Geochemical Analysis (13)

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
501	PER02	4740.428	4	>	58	2	133	6	38	.24	.10	54	>	.05	11	4	.013	1.40	16	.11	.8	>	20
502	PER03	4740.810	4	>	46	4	158	5	42	.15	.08	38	>	.06	22	7	.010	3.40	14	.10	1.4	>	14
503	PER04	4741.063	2	>	60	4	226	6	30	.23	.08	80	>	.10	21	3	.011	.80	19	.14	1.2	>	22
504	PER05	4741.008	1	>	53	4	94	4	34	.20	.08	5	>	.07	11	4	.009	.20	15	.12	1.4	>	15
505	PER05	4744.957	21	333	49	3	157	4	33	.15	.07	38	>	.04	17	8	.009	3.00	13	.12	1.4	>	13
506	PER07	4744.922	5	>	45	3	113	3	38	.14	.06	37	>	.03	15	8	.009	2.40	13	.12	1.4	>	13
507	PER08	4746.382	3	227	48	3	32	3	32	.14	.07	40	>	.03	17	4	.009	1.10	14	.11	2.2	>	11
508	PER09	4748.182	12	>	42	5	224	5	59	.27	.05	5	>	.02	13	7	.008	3.00	12	.11	1.4	>	10
509	PER10	4748.281	13	>	65	5	128	7	23	.29	.12	19	>	.04	23	6	.011	.20	15	.14	1.6	>	16
510	PER11	4745.148	8	>	63	1	128	7	23	.29	.12	19	>	.04	23	6	.011	.20	15	.14	1.6	>	16
511	PER12	4744.160	17	>	44	4	101	5	31	.15	.07	20	>	.06	12	12	.011	1.10	14	.13	1.2	>	15
512	PER13	4744.071	1	>	55	2	121	7	32	.21	.12	51	>	.09	23	10	.018	3.60	16	.13	1.2	>	16
513	PER14	4741.020	13	>	49	2	90	4	32	.17	.05	33	>	.05	24	4	.015	1.70	9	.10	.8	>	25
514	PER15	4749.940	11	>	108	10	95	13	42	.39	.23	744	>	.09	18	3	.012	1.70	31	.16	1.0	>	33
515	PER16	4740.072	8	>	53	4	110	6	30	.22	.14	44	>	.09	18	3	.012	2.50	16	.11	1.2	>	18
516	PER17	4741.345	4	>	46	3	127	4	32	.16	.08	64	>	.08	10	5	.011	1.70	13	.11	1.2	>	14
517	PER18	4742.087	7	>	48	4	255	5	36	.16	.12	44	>	.08	10	5	.011	1.70	13	.11	1.2	>	14
518	PER19	4741.325	11	>	161	8	166	14	54	.88	.38	267	>	.12	34	11	.018	.20	34	.23	1.6	>	61
519	PER20	4743.035	1	>	47	3	316	4	31	.15	.06	27	>	.05	37	2	.013	.20	13	.11	1.2	>	10
520	PER21	4742.971	1	>	60	4	133	6	34	.25	.15	62	>	.09	13	2	.020	.20	20	.13	.8	>	17
521	PER22	4743.245	4	>	59	5	132	7	30	.24	.15	166	>	.09	39	2	.015	.20	20	.13	.8	>	16
522	PER23	4743.421	3	>	47	2	148	4	27	.18	.05	201	>	.02	14	2	.027	.20	13	.08	.6	>	13
523	PER24	4744.016	8	>	38	2	126	4	22	.10	.02	15	>	.02	13	3	.010	.20	10	.09	1.0	>	9
524	PER25	4745.745	3	>	56	3	183	5	17	.19	.07	5	>	.05	19	2	.010	.20	15	.12	1.0	>	11
525	PER26	4742.911	12	>	45	2	134	5	17	.13	.06	5	>	.04	13	3	.012	.70	13	.13	1.4	>	11
526	PER27	4748.971	3	>	92	4	151	10	24	.27	.18	127	>	.05	9	2	.010	1.50	14	.12	1.0	>	10
528	PER29	4745.797	5	>	55	1	136	4	20	.19	.06	127	>	.01	40	2	.022	.40	25	.13	1.0	>	27
529	PER30	4745.104	4	>	139	4	161	10	16	.32	.31	124	>	.01	9	4	.008	.20	13	.12	1.4	>	9
530	PER31	4745.219	2	>	55	4	134	6	16	.32	.31	124	>	.01	9	5	.018	4.60	27	.20	1.4	>	28
531	PER32	4746.700	8	>	54	4	204	5	15	.21	.12	40	>	.07	13	2	.018	1.10	18	.11	1.2	>	16
532	PER33	4746.928	3	>	72	3	370	6	18	.27	.08	48	>	.04	12	2	.015	.20	14	.11	1.2	>	13
533	PER34	4747.110	13	>	76	5	289	6	18	.27	.08	48	>	.06	24	6	.012	1.50	18	.12	1.0	>	16
534	PER35	4748.708	15	>	78	9	153	11	17	.27	.19	70	>	.08	36	5	.010	.50	19	.12	1.0	>	19
535	PER36	4746.987	8	>	34	1	117	3	15	.10	.03	5	>	.01	8	2	.010	.20	28	.16	1.2	>	32
536	PER37	4749.129	1	>	79	7	187	9	29	.33	.21	61	>	.12	19	5	.083	.20	12	.07	.6	>	7
537	PER38	4749.168	9	>	67	3	116	5	21	.22	.08	28	>	.05	11	4	.011	.50	23	.14	1.0	>	24
538	PER39	4747.845	12	>	45	4	126	5	20	.15	.08	9	>	.05	12	2	.013	.20	16	.12	1.2	>	13
539	PER40	4748.013	8	>	50	2	95	6	14	.14	.10	66	>	.11	13	2	.011	.20	13	.09	.4	>	12
540	PER41	4748.137	7	>	49	5	180	5	14	.14	.09	50	>	.09	20	2	.012	.20	13	.11	.6	>	13
541	PER42	4749.587	13	>	53	5	117	6	15	.19	.10	75	>	.12	26	3	.017	1.00	16	.10	.8	>	15
542	PER43	4749.891	7	>	69	6	133	10	21	.30	.17	124	>	.13	20	2	.030	.20	21	.13	.6	>	23
543	PER44	4744.854	2	>	42	3	72	5	22	.14	.07	22	>	.06	9	2	.012	.40	12	.11	.6	>	23
544	PER45	4745.974	9	>	41	3	74	4	17	.13	.04	15	>	.02	10	2	.011	.20	13	.08	.6	>	12
545	PER46	4745.023	4	>	52	4	86	5	19	.18	.09	16	>	.05	10	4	.012	.20	14	.10	.6	>	9
546	PER47	4744.499	4	>	39	3	85	5	20	.14	.06	22	>	.05	15	2	.014	1.30	11	.08	.2	>	14
548	PER48	4745.114	11	>	58	4	102	5	12	.22	.09	23	>	.03	22	2	.011	.80	14	.10	.2	>	12
549	PER49	4748.114	4	>	49	6	95	6	12	.15	.10	41	>	.12	20	2	.015	.20	12	.12	1.2	>	11
550	PEJ01	4740.076	9	>	41	1	114	5	17	.12	.04	67	>	.02	11	2	.014	.20	11	.10	.6	>	10
550	PEJ02	4742.733	17	>	37	2	86	4	15	.12	.03	5	>	.02	8	2	.011	.20	11	.10	1.0	>	8

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Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
651	PEJ03	4742.897	2	1	52	3	263	9	24	20	12	53	1	.08	40	6	.018	2.00	17	.12	.8	2	19
652	PEJ04	4744.693	5	1	48	2	277	9	10	.13	.09	21	1	.04	45	11	.018	1.00	14	.09	.4	2	16
653	PEJ05	4744.907	1	1	42	2	193	19	14	.10	.07	24	1	.04	46	8	.016	1.30	13	.09	.6	2	14
654	PEJ06	4744.184	1	1	41	2	174	5	32	.08	.03	5	1	.01	30	7	.013	1.90	9	.09	.8	2	11
655	PEJ07	4748.222	1	1	42	4	123	6	17	.10	.08	22	1	.07	22	5	.012	2.20	12	.07	.8	2	13
656	PEJ08	4741.597	2	1	38	1	165	6	14	.06	.04	36	1	.02	23	9	.025	1.80	13	.10	1.2	2	14
657	PEJ09	4742.572	1	1	45	1	132	5	18	.10	.06	5	1	.04	16	4	.014	1.30	13	.10	.8	2	13
658	PEJ10	4744.104	1	1	45	3	143	5	16	.11	.07	20	1	.04	18	3	.013	2.00	13	.11	.8	2	13
659	PEJ11	4744.114	1	1	38	4	350	6	19	.07	.04	57	1	.03	34	7	.013	2.60	10	.11	.8	2	13
660	PEJ12	4747.908	3	1	66	2	287	31	30	.23	.20	6	1	.10	66	11	.040	2.60	18	.12	1.0	2	27
661	PEJ13	4748.854	1	1	41	1	213	10	19	.07	.05	26	1	.03	42	5	.012	2.20	9	.07	.6	2	11
662	PEJ14	4747.711	2	1	42	1	174	6	19	.08	.06	18	1	.03	21	8	.016	2.30	8	.08	.6	2	12
663	PEJ15	4741.151	1	1	33	2	183	4	21	.07	.02	8	1	.01	17	9	.012	2.30	8	.08	.6	2	9
664	PEJ16	4747.497	9	1	36	1	136	5	21	.07	.04	23	1	.02	19	6	.011	1.70	11	.08	.8	2	11
665	PEJ17	4747.318	19	1	45	1	157	6	25	.10	.07	45	1	.04	22	11	.021	3.30	11	.08	.8	2	15
666	PEJ18	4747.372	1	1	46	3	595	11	21	.10	.07	34	1	.04	81	6	.019	4.80	11	.08	.8	2	15
667	PEJ19	4746.522	1	1	44	2	231	10	29	.10	.08	47	1	.08	38	7	.016	1.60	14	.11	1.0	2	13
668	PF01	4757.102	1	1	69	5	119	6	11	.19	.22	105	1	.12	23	3	.013	3.30	21	.14	1.8	2	22
669	PF02	4752.002	1	1	90	8	143	17	25	.43	.32	278	1	.24	39	2	.013	3.00	21	.19	1.5	2	30
670	PF03	4753.383	4	1	98	15	186	26	27	.49	.55	467	1	.30	68	3	.054	3.10	30	.31	1.0	2	40
671	PF04	4753.100	1	1	89	8	142	19	28	.44	.48	366	1	.29	42	4	.022	2.00	28	.22	1.2	2	35
672	PF05	4752.956	7	1	115	12	141	19	22	.63	.56	381	1	.47	41	2	.015	4.00	33	.20	1.5	2	35
673	PF06	4751.391	1	1	68	7	130	9	31	.33	.34	127	1	.22	30	4	.017	3.00	23	.15	1.2	2	24
674	PF07	4751.790	1	1	57	6	77	7	15	.20	.22	59	1	.06	30	2	.012	1.80	17	.10	1.2	2	16
675	PF08	4751.875	4	1	66	4	78	6	12	.20	.16	26	1	.03	30	7	.012	1.90	17	.10	1.8	2	14
676	PF09	4752.483	1	1	66	7	272	7	21	.18	.17	84	1	.07	58	8	.011	1.20	17	.10	1.2	2	18
677	PF10	4753.650	9	1	91	10	286	14	47	.40	.49	151	1	.34	78	2	.030	2.40	29	.17	1.4	2	43
678	PF11	4754.602	1	1	119	14	233	21	30	.71	.67	183	1	.34	90	4	.071	6.90	35	.20	1.4	2	48
679	PF12	4756.973	5	1	60	8	150	8	11	.21	.28	124	1	.14	45	4	.013	2.90	25	.16	1.5	2	19
680	PF13	4757.103	9	1	74	5	158	8	18	.33	.25	93	1	.09	49	5	.013	2.90	23	.14	1.2	2	22
681	PF14	4757.936	1	1	79	6	125	10	29	.48	.36	60	1	.05	36	2	.013	2.90	21	.10	1.3	2	18
682	PF15	4757.907	2	1	94	6	125	10	29	.48	.36	82	1	.16	49	3	.015	2.80	27	.15	1.3	2	30
683	PF16	4758.351	1	1	47	4	113	5	13	.12	.11	45	1	.03	42	3	.010	1.70	15	.07	1.3	2	10
684	PF17	4758.541	1	1	50	5	482	8	11	.14	.11	21	1	.10	29	6	.018	2.20	13	.08	1.3	2	14
685	PF18	4758.477	4	1	61	4	160	7	16	.20	.21	53	1	.10	36	3	.012	2.80	21	.12	1.4	2	17
686	PF19	4758.617	2	1	67	3	188	8	22	.25	.23	92	2	.07	68	2	.013	3.80	20	.12	1.2	2	19
687	PF20	4750.603	3	1	55	3	206	6	22	.15	.09	28	1	.04	52	11	.011	1.90	17	.11	.8	2	17
688	PF21	4752.525	8	1	61	3	164	7	18	.16	.09	12	1	.01	44	12	.011	1.90	17	.14	2.2	2	16
689	PF22	4752.520	3	1	79	5	173	7	20	.23	.26	53	1	.02	44	10	.013	3.80	18	.18	1.4	2	19
690	PF23	4752.738	11	1	76	3	138	8	23	.22	.22	28	1	.05	38	5	.011	1.70	20	.14	1.4	2	22
691	PF24	4753.301	1	1	54	4	230	6	21	.14	.22	76	1	.03	41	9	.010	1.90	16	.14	1.4	2	18
692	PF25	4758.451	7	1	71	10	310	6	21	.14	.15	45	1	.08	30	5	.010	3.60	17	.13	1.6	2	16
693	PF26	4754.023	7	1	89	8	212	13	26	.21	.33	193	1	.27	46	11	.016	2.00	27	.20	.8	2	38
694	PF27	4755.604	24	1	86	14	237	12	29	.31	.34	272	1	.33	45	12	.021	1.80	28	.20	1.4	2	43
695	PF28	4755.654	1	1	86	14	237	12	30	.26	.34	61	1	.33	45	10	.022	4.20	25	.25	1.2	2	47
696	PF29	4754.778	18	1	85	7	169	11	41	.08	.03	75	1	.10	33	7	.011	1.00	9	.08	1.0	2	10
697	PF30	4758.310	13	1	85	7	177	11	44	.22	.20	403	1	.10	30	14	.022	2.20	22	.20	1.0	2	31
698	PF31	4759.422	9	1	191	11	202	21	47	.73	.63	285	1	.39	46	4	.078	5.0	50	.29	1.8	2	70
699	PF32	4759.323	10	1	111	6	218	13	34	.32	.27	218	1	.12	35	4	.028	4.50	26	.17	1.0	2	40
700	PF33	4756.562	12	1	79	3	389	12	19	.24	.27	143	1	.17	53	6	.053	4.50	27	.17	1.2	2	36

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Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
701	PF914	4756.389 1417.716	13	1	50	5	433	6	11	10	11	83	>	.09	46	13	.017	2.60	17	.17	3.2	>	22
702	PF915	4757.730 1417.962	5	1	87	1	210	13	20	.29	.22	10	1	.07	33	12	.021	2.70	29	.17	1.2	>	41
703	PF916	4757.852 1416.564	9	1	60	3	221	8	13	.15	.11	5	1	.04	36	9	.018	1.50	21	.13	1.0	>	26
704	PF917	4750.148 1417.324	6	1	58	3	342	6	10	.17	.19	20	1	.02	56	7	.012	2.70	14	.14	2.2	>	18
705	PF918	4750.727 1417.215	8	1	60	3	205	5	10	.08	.28	33	1	.02	53	6	.012	1.40	15	.13	1.8	>	17
706	PF919	4756.945 1415.667	1	1	42	1	211	4	10	.08	.06	106	1	.03	28	6	.011	2.20	11	.12	1.8	>	12
707	PF920	4757.215 1415.702	12	1	49	2	237	5	10	.12	.12	27	1	.09	26	3	.014	.40	18	.12	1.2	>	19
708	PF921	4757.793 1415.663	4	1	32	2	374	6	10	.06	.02	5	1	.01	49	6	.019	1.30	10	.08	1.4	>	13
709	PF922	4758.856 1414.451	1	1	62	4	361	8	10	.19	.20	124	1	.10	45	10	.033	2.50	21	.15	1.6	>	25
710	PF923	4759.624 1415.014	7	1	44	2	393	9	10	.11	.10	12	1	.04	71	13	.021	1.60	14	.10	1.0	>	23
711	PF924	4754.030 1415.300	15	1	45	2	225	5	10	.12	.06	5	1	.01	38	6	.014	2.80	13	.16	1.8	>	14
712	PF925	4754.205 1415.375	10	1	41	2	179	4	10	.12	.04	5	1	.01	21	9	.011	2.60	14	.16	2.0	>	10
713	PF926	4754.644 1414.977	2	1	62	1	193	7	17	.19	.09	61	1	.01	21	6	.012	.30	16	.16	1.8	>	16
714	PF927	4754.954 1414.580	5	1	64	2	204	7	10	.21	.12	7	2	.02	23	6	.011	2.80	16	.16	1.6	>	19
715	PF928	4755.319 1413.197	10	1	133	6	303	14	17	.46	.37	221	1	.10	59	13	.016	1.20	36	.22	1.6	>	45
716	PF929	4755.449 1413.272	1	1	59	1	226	6	10	.19	.10	40	1	.01	35	9	.013	2.20	15	.17	2.2	>	16
717	PF930	4752.362 1414.078	9	1	86	2	277	7	17	.28	.16	43	1	.08	176	24	.015	3.30	19	.16	1.0	>	40
718	PF931	4753.215 1413.378	13	1	77	2	219	6	14	.19	.21	49	1	.03	35	7	.013	1.40	21	.19	1.4	>	20
719	PF932	4753.166 1413.234	2	1	60	1	327	6	14	.19	.14	28	1	.04	19	8	.012	2.30	18	.14	1.6	>	19
720	PF933	4753.415 1413.627	18	1	78	1	374	7	10	.24	.14	5	1	.02	19	7	.010	1.50	18	.15	2.0	>	24
721	PF934	4755.246 1412.495	8	1	57	2	219	5	10	.15	.11	11	1	.03	16	13	.011	2.00	18	.15	1.6	>	12
722	PF935	4755.626 1411.317	14	1	66	2	299	6	12	.18	.13	65	2	.03	16	13	.010	4.70	16	.15	2.0	>	16
723	PF936	4756.215 1410.552	10	1	56	2	290	5	10	.14	.10	24	1	.03	13	11	.015	.80	16	.13	1.4	>	16
724	PF937	4756.062 1410.337	13	1	52	3	212	6	10	.18	.13	35	1	.04	17	12	.014	6.90	16	.13	1.4	>	16
725	PF938	4756.117 1410.144	15	1	63	3	282	6	10	.18	.16	69	1	.06	16	8	.011	1.30	21	.15	1.8	>	18
726	PF939	4757.152 1410.931	12	1	74	1	230	8	10	.22	.16	31	1	.05	22	9	.010	1.30	47	.25	1.4	>	35
727	PF940	4757.836 1410.355	2	1	221	15	173	32	43	1.59	.90	62	1	.82	53	7	.198	3.40	74	.35	2.2	>	33
728	PF941	4757.119 1410.245	6	1	130	8	202	11	28	.59	.29	10	1	.33	26	7	.067	1.60	36	.19	1.6	>	77
729	PF942	4759.578 1412.149	20	1	100	5	245	14	34	.57	.33	13	1	.29	25	7	.167	1.20	31	.21	2.2	>	33
730	PF943	4759.514 1411.974	11	1	136	14	212	20	32	.84	.52	248	1	.42	43	10	.061	1.30	47	.25	1.4	>	60
731	PF944	4752.086 1411.501	1	1	89	3	198	6	11	.45	.16	31	1	.05	22	9	.010	.70	18	.19	1.8	>	16
732	PF945	4752.840 1410.745	1	1	81	4	234	7	10	.40	.18	79	1	.07	21	5	.011	2.00	18	.15	1.8	>	16
733	PF946	4752.985 1410.771	14	1	62	2	140	6	13	.80	.11	19	1	.03	15	5	.010	1.30	17	.12	1.4	>	17
734	PF947	4752.632 1410.233	15	1	65	5	315	6	10	.31	.13	14	1	.07	16	3	.011	1.30	17	.12	1.4	>	13
735	PF948	4753.159 1411.204	10	1	64	2	215	6	10	.30	.15	18	1	.04	18	4	.011	1.50	17	.12	1.4	>	15
736	PF949	4757.875 1417.678	6	1	31	1	198	4	10	.10	.03	107	1	.02	12	5	.013	1.00	9	.07	2.0	>	15
737	PF950	4755.966 1418.958	13	1	105	11	248	12	20	.48	.39	233	1	.38	38	7	.030	.70	30	.23	1.2	>	9
738	PF951	4757.476 1414.369	6	1	67	3	205	6	10	.23	.12	67	1	.04	24	5	.011	1.50	15	.23	2.0	>	39
739	PF952	4755.621 1411.595	14	1	73	3	263	6	12	.34	.17	25	1	.05	28	7	.011	2.50	19	.15	1.8	>	15
740	PF953	4752.799 1418.318	8	1	63	5	163	4	10	.28	.05	11	1	.01	12	6	.009	2.70	12	.13	2.2	>	9
741	PF954	4750.766 1408.705	7	1	73	1	272	5	10	.39	.68	37	1	.07	34	6	.011	1.90	16	.11	1.2	>	17
742	PF955	4750.956 1408.780	3	1	79	7	364	10	20	.39	.22	179	1	.14	76	8	.013	3.20	21	.16	1.2	>	27
743	PF956	4751.071 1408.268	8	1	53	2	199	4	10	.20	.05	5	1	.02	12	2	.010	2.10	13	.10	1.2	>	2
744	PF957	4752.978 1409.724	9	1	55	1	152	4	10	.20	.07	22	1	.02	13	8	.011	2.10	13	.10	1.2	>	9
745	PF958	4752.447 1408.744	16	1	65	3	185	6	14	.29	.15	29	1	.09	17	7	.011	3.10	21	.13	1.4	>	10
746	PF959	4752.690 1409.062	1	1	63	1	256	6	10	.34	.19	46	1	.06	20	4	.011	1.70	16	.13	1.4	>	15
747	PF960	4752.541 1409.156	1	1	79	2	256	7	10	.34	.19	21	1	.14	19	2	.019	1.90	24	.14	1.4	>	23
748	PF961	4752.798 1407.984	18	1	54	5	286	6	10	.18	.17	42	1	.08	32	3	.015	5.40	16	.12	1.4	>	13
749	PF962	4753.361 1408.025	1	1	64	2	242	6	10	.29	.15	34	1	.08	17	3	.012	2.50	17	.13	1.2	>	18
750	PF963	4754.662 1408.575	10	1	61	4	372	8	10	.25	.20	64	1	.08	42	6	.013	3.10	19	.12	1.4	>	20

List of Geochemical Analysis ( 16 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
751	PFH11	4754.514 1408.058	13	>	123	9	213	14	26	.81	.44	28	>	.32	55	7	.055	>	40	.23	1.6	>	59
752	PFH12	4755.585 1408.324	17	>	118	12	152	16	27	.67	.36	319	>	.22	34	11	.029	>	37	.20	1.4	>	53
753	PFH13	4757.813 1408.827	11	>	144	10	158	20	41	.83	.48	42	>	.32	42	11	.143	1.10	46	.25	1.4	>	64
754	PFH14	4756.744 1407.626	19	>	161	10	155	20	28	1.06	.90	168	>	.35	44	13	.065	1.00	45	.27	2.0	>	67
755	PFH15	4755.095 1407.070	17	>	139	10	166	19	23	.83	.44	115	>	.32	39	11	.033	3.20	42	.22	1.2	>	62
756	PFH16	4755.805 1406.108	17	>	121	9	170	17	27	.79	.42	94	>	.30	37	10	.035	1.30	40	.23	1.2	>	64
757	PFH17	4750.044 1406.094	8	>	67	1	244	6	10	.26	.11	11	>	.09	16	7	.011	3.80	16	.11	1.4	>	15
758	PFH18	4751.276 1406.261	15	>	161	12	191	25	17	.90	.60	193	>	.44	51	7	.025	4.60	53	.24	1.4	>	15
759	PFH19	4751.263 1405.426	18	>	77	6	192	11	17	.35	.21	34	>	.15	27	7	.042	2.00	23	.13	1.2	>	53
760	PFH20	4751.154 1405.187	20	>	63	4	228	6	15	.26	.13	63	>	.10	24	11	.021	3.20	19	.11	1.0	>	28
761	PFH21	4752.792 1406.090	13	>	67	5	226	9	21	.29	.17	75	>	.11	26	8	.049	1.90	20	.15	1.4	>	20
762	PFH22	4752.938 1406.006	22	>	93	7	252	15	29	.53	.27	24	>	.19	39	12	.098	1.80	31	.17	1.4	>	23
763	PFH23	4752.291 1405.209	4	>	73	7	273	9	11	.32	.16	32	>	.13	32	5	.016	4.30	21	.13	1.2	>	26
764	PFH24	4753.599 1404.716	14	>	75	5	199	15	24	.34	.14	78	>	.08	38	11	.024	1.40	24	.13	1.2	>	26
765	PFH25	4754.625 1405.195	16	>	59	4	266	10	17	.32	.17	45	>	.12	33	2	.019	1.50	22	.13	1.8	>	38
766	PFH26	4754.625 1405.195	11	>	73	6	266	10	21	.32	.17	45	>	.12	33	2	.019	1.50	22	.13	1.8	>	38
767	PFH27	4757.937 1405.674	1	>	163	22	190	24	32	1.25	.58	216	>	.39	69	14	.026	1.00	25	.16	1.2	>	42
768	PFH28	4757.973 1404.751	7	>	67	5	239	11	18	.37	.17	32	>	.12	37	6	.030	1.70	23	.14	1.2	>	73
769	PFH29	4758.118 1404.866	13	>	123	9	192	17	26	.88	.45	51	>	.35	52	5	.030	3.00	41	.24	1.4	>	60
770	PFH30	4759.850 1406.376	16	>	100	8	190	14	48	.61	.29	44	>	.18	32	8	.022	.40	33	.21	1.4	>	49
771	PFH31	4759.202 1404.233	15	>	120	10	198	19	27	.82	.48	30	>	.35	43	7	.052	.20	41	.26	1.4	>	58
772	PFH32	4750.490 1403.515	2	>	46	3	181	6	10	.15	.07	44	>	.06	18	3	.030	2.70	13	.09	.6	>	15
773	PFH33	4750.641 1403.197	11	>	64	5	187	10	13	.25	.15	108	>	.13	22	4	.023	1.80	19	.12	.8	>	15
774	PFH34	4751.632 1403.463	20	>	58	4	202	10	10	.22	.13	17	>	.11	24	8	.039	2.00	17	.12	1.4	>	20
775	PFH35	4752.359 1403.922	10	>	61	3	544	12	21	.26	.17	23	>	.12	28	8	.073	1.40	20	.15	1.4	>	27
776	PFH36	4751.560 1402.534	12	>	54	4	263	9	18	.29	.14	5	>	.10	20	10	.016	2.30	18	.13	1.2	>	28
777	PFH37	4752.950 1402.984	20	>	113	10	221	20	33	.74	.39	162	>	.24	43	8	.022	2.10	36	.23	1.4	>	56
778	PFH38	4754.039 1402.346	16	>	116	15	218	19	27	.78	.44	179	>	.29	45	10	.038	.20	40	.24	1.4	>	62
779	PFH39	4754.061 1401.655	18	>	50	5	425	8	16	.19	.11	34	>	.08	24	5	.033	4.00	16	.12	1.4	>	20
780	PFH40	4754.405 1401.671	10	>	47	6	204	8	43	.55	.35	39	>	.09	18	5	.019	3.50	18	.12	1.0	>	26
781	PFH41	4757.228 1401.564	12	>	130	11	181	20	41	.98	.52	54	>	.43	41	11	.104	5.00	48	.28	1.8	>	64
782	PFH42	4759.890 1402.023	12	>	87	6	243	14	41	.55	.35	54	>	.28	38	7	.087	2.30	33	.20	1.6	>	44
783	PFH43	4750.571 1400.881	14	>	61	5	142	9	17	.24	.14	306	>	.26	18	3	.012	4.10	33	.20	1.6	>	44
784	PFH44	4756.718 1400.166	17	>	92	8	254	13	17	.54	.32	115	>	.22	35	15	.033	1.30	32	.19	1.4	>	45
785	PFH45	4751.102 1400.127	8	>	58	6	262	8	14	.22	.14	118	>	.18	19	8	.019	1.70	21	.15	2.0	>	25
786	PFH46	4755.401 1400.103	1	>	59	6	245	11	26	.36	.14	5	>	.07	23	5	.014	1.50	23	.11	1.0	>	21
787	PFH47	4754.404 1401.780	1	>	76	6	189	11	19	.52	.25	31	>	.19	25	7	.022	5.40	29	.17	1.2	>	34
788	PFH48	4755.454 1402.817	2	>	133	11	176	17	21	1.03	.49	68	>	.38	38	9	.049	2.80	45	.27	1.4	>	58
789	PFH49	4750.204 1402.212	2	>	130	12	173	19	21	.65	.35	539	>	.28	30	9	.020	.90	42	.20	1.0	>	38
790	PFH50	4751.791 1407.957	1	>	51	8	207	7	14	.30	.16	176	>	.06	26	4	.010	2.90	19	.14	1.8	>	18
791	PFJ01	4750.134 1396.870	4	>	85	12	214	15	45	.45	.27	181	>	.23	73	4	.021	3.40	18	.12	1.0	>	19
792	PFJ02	4752.089 1398.929	12	>	84	13	210	15	43	.46	.27	182	>	.17	39	8	.017	.30	28	.15	.9	>	33
793	PFJ03	4752.664 1398.911	1	>	50	8	119	7	21	.12	.13	87	>	.10	35	6	.019	1.30	34	.15	1.4	>	45
794	PFJ04	4753.695 1399.295	5	>	82	7	213	14	28	.40	.30	58	>	.15	38	5	.059	3.60	17	.08	1.0	>	18
795	PFJ05	4753.834 1399.345	6	>	57	4	280	8	18	.14	.16	79	>	.17	46	3	.017	2.40	18	.11	1.6	>	34
796	PFJ06	4750.151 1399.151	10	>	55	7	204	7	16	.17	.16	60	>	.37	32	4	.017	1.10	21	.11	.6	>	18
797	PFJ07	4751.125 1397.985	6	>	180	20	335	25	50	1.39	.67	385	>	.16	72	6	.052	5.60	53	.27	2.0	>	79
798	PFJ08	4752.040 1399.129	6	>	77	8	305	15	28	.42	.28	101	>	.37	196	21	.034	1.10	21	.11	.9	>	18
799	PFJ09	4755.835 1398.086	6	>	78	8	300	12	66	.47	.30	64	>	.14	59	3	.055	.60	26	.14	1.3	>	40
800	PFJ10	4755.202 1396.756	6	>	78	8	305	12	66	.47	.30	64	>	.14	59	3	.055	.60	26	.14	1.3	>	40

List of Geochemical Analysis ( 17 )

Ser. No.	Sample No.	Location (km)	As	Au	Ba	Ce	Cr	Cu	Hg	K	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord Y-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
801	PFJ11	4757.012 1398.113	1	1	204	11	197	22	40	1.60	.75	5	1	.49	66	10	.117	2.30	54	.29	2.2	2	74
802	PFJ12	4756.963 1397.775	3	1	45	4	122	7	20	.09	.10	30	1	.05	38	8	.019	.70	17	.09	1.3	2	16
803	PFJ13	4757.954 1398.283	1	1	88	10	312	11	25	.53	.30	11	1	.16	88	2	.035	3.30	28	.15	1.5	2	41
804	PFJ14	4759.120 1398.573	9	1	100	11	119	19	33	.98	.31	88	1	.17	53	7	.037	20	32	.16	2.1	2	43
805	PFJ15	4753.325 1396.870	11	1	140	10	225	22	88	1.07	.57	43	1	.93	66	9	.214	1.90	43	.24	2.1	2	68
806	PGf01	4761.982 1423.318	1	1	68	8	530	10	16	.19	.23	98	1	.10	161	8	.026	3.30	19	.11	1.5	2	20
807	PGf02	4762.097 1423.382	1	1	58	34	1116	36	23	.18	1.52	505	1	1.47	168	2	.024	8.60	89	.24	1.5	2	37
808	PGf03	4761.976 1423.105	10	1	91	17	274	9	23	.41	.30	5	1	.08	124	6	.016	4.20	22	.15	1.0	2	24
809	PGf04	4763.041 1422.587	1	1	45	17	294	38	16	.10	.88	460	1	.46	61	2	.019	9.10	45	.24	1.0	2	31
810	PGf05	4763.545 1422.286	4	1	47	4	221	7	21	.09	.10	8	1	.01	51	8	.020	3.40	17	.12	1.0	2	12
811	PGf06	4765.113 1421.002	1	1	60	25	748	8	13	.09	.21	81	1	.08	81	7	.033	32.40	63	.31	1.6	2	18
812	PGf07	4765.179 1421.185	1	1	26	25	11638	13	30	.06	1.65	522	1	.80	137	2	.013	2.00	16	.10	1.4	2	71
813	PGf08	4765.492 1420.364	7	1	35	3	207	5	32	.02	.17	112	1	.05	34	6	.024	.60	14	.09	1.4	2	11
814	PGf09	4760.159 1420.798	7	1	49	3	417	6	39	.12	.13	18	1	.06	182	11	.035	4.10	16	.10	1.4	2	16
815	PGf10	4764.521 1420.112	3	1	272	11	914	10	11	.05	.21	137	1	.06	342	142	.023	2.90	16	.16	1.8	2	22
816	PGf11	4765.924 1420.367	4	1	50	13	590	11	41	.14	.36	184	1	.18	184	5	.023	2.90	27	.16	1.7	2	19
817	PGf12	4766.655 1420.576	1	1	81	4	175	7	12	.22	.16	5	1	.02	72	15	.015	3.90	14	.13	1.3	2	14
818	PGf13	4767.771 1423.537	1	1	183	36	1143	73	21	.21	2.32	1299	1	1.71	201	10	.088	4.90	288	.50	2	2	87
819	PGf14	4769.041 1424.026	1	1	32	59	1119	53	34	.04	1.19	868	1	.84	169	2	.044	9.90	113	.47	3	2	58
820	PGf15	4768.457 1422.798	1	2	33	40	882	56	41	.15	2.06	1135	1	1.78	146	2	.050	7.50	228	.45	3	2	70
821	PGf16	4768.848 1422.612	1	1	31	41	905	34	18	.10	2.14	967	1	1.77	130	2	.052	6.50	246	.51	3	2	69
822	PGf17	4768.324 1422.164	1	1	363	17	1530	15	40	.11	.68	539	1	.63	71	3	.029	7.50	143	.34	5	2	39
823	PGf18	4768.527 1422.053	1	1	52	6	463	8	14	.12	.37	160	1	.14	82	7	.014	2.70	22	.14	1.9	2	21
824	PGf19	4769.909 1422.214	1	1	62	11	1217	11	19	.27	.44	318	1	.16	43	8	.020	4.10	29	.27	1.3	2	34
825	PGf20	4768.411 1420.183	1	1	55	6	638	7	19	.15	.41	198	1	.12	53	3	.012	1.40	18	.21	1.4	2	22
826	PGf21	4768.998 1420.249	1	1	84	9	411	13	22	.33	.65	236	1	.24	66	5	.013	5.20	27	.20	1.2	2	29
827	PGf22	4769.866 1420.864	1	1	72	7	523	12	21	.31	.81	206	1	.26	67	6	.020	4.70	30	.23	1.4	2	30
828	PGf23	4767.298 1423.470	1	1	134	37	595	38	20	.17	1.16	1250	1	1.34	70	2	.050	20	350	.56	2	2	55
829	PGf24	4761.562 1418.302	1	1	53	5	156	17	24	.67	.39	319	1	.36	30	9	.082	2.00	36	.19	1.0	2	44
830	PGf25	4761.725 1418.307	2	1	53	10	340	12	11	.30	.52	280	1	.18	43	4	.015	4.60	19	.17	1.0	2	21
831	PGf26	4762.046 1417.139	11	1	82	8	279	13	17	.42	.31	123	1	.21	32	5	.080	4.80	23	.16	1.4	2	29
832	PGf27	4762.046 1417.009	1	1	72	6	168	10	10	.40	.26	128	1	.13	23	9	.018	4.80	20	.16	1.0	2	21
833	PGf28	4764.975 1419.429	1	1	50	7	215	9	10	.21	.36	134	1	.21	27	3	.012	2.90	25	.19	1.5	2	31
834	PGf29	4766.392 1417.127	1	1	55	11	173	19	10	.23	.40	303	1	.23	33	2	.026	4.30	26	.25	.8	2	18
835	PGf30	4765.350 1418.141	1	1	53	15	162	8	13	.26	.25	185	1	.09	43	5	.019	10.20	45	.16	1.0	2	18
836	PGf31	4765.630 1417.712	1	1	53	15	902	17	10	.24	.71	351	1	.39	43	3	.019	10.20	45	.16	1.0	2	18
837	PGf32	4765.800 1417.811	1	1	55	38	613	18	17	.25	.88	414	1	.26	77	2	.015	11.20	27	.36	1.0	2	31
838	PGf33	4766.882 1417.314	1	1	69	11	896	44	29	.30	.81	593	1	.22	106	4	.032	7.20	22	1.09	.6	2	88
839	PGf34	4766.973 1417.734	1	1	69	11	243	13	16	.32	.47	269	1	.22	50	4	.016	9.30	20	.20	1.0	2	24
840	PGf35	4765.466 1416.889	4	1	65	6	449	18	14	.36	.70	223	1	.43	40	2	.016	9.30	40	.25	.8	2	29
841	PGf36	4765.112 1416.638	5	1	64	5	248	10	11	.32	.32	154	1	.19	27	3	.012	1.90	23	.18	1.0	2	22
842	PGf37	4765.898 1416.852	1	1	29	18	722	24	31	.03	1.31	299	1	.16	120	2	.019	9.10	15	.61	.4	2	51
843	PGf38	4760.982 1416.215	7	1	40	2	96	7	10	.16	.07	5	1	.02	11	2	.012	2.00	12	.08	.8	2	9
844	PGf39	4761.319 1416.119	15	1	72	5	179	11	16	.34	.17	25	1	.10	23	8	.035	3.10	21	.15	.8	2	25
845	PGf40	4761.528 1415.309	4	1	30	2	263	4	10	.06	.01	5	1	.01	13	7	.015	3.80	10	.07	.6	2	10
846	PGf41	4760.126 1414.468	14	1	55	5	238	7	14	.24	.11	5	1	.10	23	4	.022	1.80	17	.12	1.2	2	20
847	PGf42	4760.403 1413.483	1	1	220	17	188	27	38	1.60	1.01	287	1	.61	57	5	.209	5.70	75	.37	1.8	2	85
848	PGf43	4762.152 1413.954	7	1	82	10	236	10	19	.42	.21	107	1	.15	57	7	.024	2.60	26	.15	.8	2	38
849	PGf44	4762.141 1413.781	9	1	158	11	194	14	42	1.05	.55	158	1	.43	55	15	.250	2.80	54	.28	1.6	2	70
850	PGf45	4761.311 1415.449	3	1	34	1	325	5	10	.11	.04	6	1	.02	17	3	.014	2.00	12	.07	1.0	2	11

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Ser. No.	Sample No.	Location (km)	As	Au	Ba	Co	Cr	Cu	Hg	K	Mg	Mn	Mb	Na	Ni	Pb	S	Sb	Sr	Ti	U	W	Zn
		X-coord	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		Y-coord																					
851	PG923	4769.683	1416.903	>	59	3	172	5	10	.24	.08	5	1	.01	15	5	.011	1.90	14	.13	1.8	2	14
852	PG924	4769.787	1416.734	>	78	5	218	6	13	.34	.15	19	>	.07	21	6	.012	2.90	20	.15	1.6	2	18
853	PG925	4768.665	1416.274	>	88	7	226	10	16	.32	.32	92	>	.11	43	7	.014	3.40	24	.18	1.6	2	21
854	PG926	4768.819	1416.303	>	68	>	180	7	16	.33	.18	29	>	.05	19	7	.012	>	19	.15	1.6	2	20
855	PG927	4768.602	1415.604	>	193	26	474	46	16	.56	1.75	1088	>	1.85	78	2	.030	9.10	184	.97	.8	2	64
856	PG928	4768.759	1415.315	>	154	19	944	23	11	.62	1.44	409	>	.46	115	6	.031	8.10	63	.31	1.2	2	48
857	PG929	4768.234	1414.921	>	34	45	584	33	10	.11	4.59	502	>	2.17	312	2	.049	3.90	240	.37	1.2	2	51
858	PG930	4768.435	1414.538	>	70	11	122	19	10	.31	.38	225	>	.17	26	4	.015	1.30	32	.31	1.4	2	24
859	PG931	4769.335	1413.644	>	64	5	428	9	10	.32	1.07	624	>	.50	62	2	.027	4.60	86	.65	.6	3	36
860	PG932	4769.667	1413.473	>	78	4	270	8	10	.34	.24	87	>	.10	25	8	.014	2.40	19	.15	1.2	2	21
862	PG934	4761.211	1411.284	>	87	4	442	32	13	.28	.16	82	>	.06	26	10	.010	3.10	15	.13	1.0	2	17
863	PG935	4761.111	1411.165	>	129	17	165	24	38	.99	.66	172	>	.49	125	10	.130	3.10	53	.29	1.6	2	79
864	PG936	4765.465	1411.651	>	146	13	214	26	39	.65	.54	469	>	.39	44	20	.023	1.50	50	.27	1.4	2	73
865	PG937	4766.034	1411.116	>	98	9	251	16	18	.80	.58	116	2	.43	40	10	.093	2.00	48	.25	1.6	2	59
866	PG938	4766.192	1410.996	>	132	19	623	604	27	.47	.70	213	2	.37	51	9	.049	4.60	36	.21	1.2	4	44
867	PG939	4765.734	1410.095	>	150	12	181	22	36	.77	.60	186	>	.30	614	37	.776	4.50	34	.22	1.6	2	189
868	PG940	4765.843	1410.129	>	152	8	308	15	18	.36	.43	123	>	.24	35	6	.072	3.30	52	.30	2.0	2	74
870	PG942	4769.217	1411.241	>	109	11	317	15	25	.44	.60	397	>	.15	76	9	.117	2.10	32	.20	1.6	2	41
871	PG943	4766.226	1410.896	>	98	8	409	12	23	.43	.56	195	>	.21	48	6	.067	4.50	36	.23	1.0	2	45
872	PG944	4765.625	1411.719	>	181	12	206	28	44	.93	.73	220	>	.52	64	12	.032	4.40	58	.32	1.8	2	78
873	PG945	4769.581	1418.826	>	132	4	231	13	16	.39	.48	186	>	.25	37	8	.047	3.20	34	.19	1.6	2	35
874	PG946	4769.363	1418.904	>	55	11	255	200	12	.21	.21	72	>	.05	213	17	.192	1.90	16	.17	3.0	2	65
875	PG947	4762.294	1406.852	>	59	10	470	13	12	.18	.83	371	>	.21	72	6	.015	7.40	30	.36	.8	2	33
876	PG948	4762.414	1407.030	>	105	6	155	11	31	.43	.33	142	>	.14	27	8	.016	.60	28	.15	1.5	2	32
877	PG949	4761.905	1407.505	>	88	8	119	8	24	.32	.47	179	>	.15	80	4	.017	.60	23	.11	1.5	2	29
878	PG950	4760.690	1406.807	>	75	9	222	9	29	.29	.57	200	>	.15	90	3	.019	1.60	20	.11	1.3	2	35
879	PG951	4760.904	1406.810	>	117	18	282	21	38	.82	1.26	229	>	.56	82	3	.096	5.40	47	.25	1.3	2	53
880	PG952	4760.161	1404.579	>	83	7	130	7	21	.26	.36	130	>	.13	43	4	.021	1.90	21	.12	1.3	2	26
881	PG953	4761.098	1404.256	>	90	10	130	10	29	.45	.48	63	>	.27	51	2	.053	5.20	31	.16	1.3	2	34
882	PG954	4761.098	1404.077	>	88	8	144	10	30	.48	.44	28	>	.24	26	6	.050	3.50	32	.17	1.5	2	39
883	PG955	4761.002	1403.250	>	61	4	159	7	31	.48	.29	53	>	.16	22	9	.043	1.80	29	.16	1.3	2	36
885	PG956	4762.828	1408.085	>	116	11	172	11	24	.22	.16	19	>	.08	23	2	.024	4.20	22	.11	1.5	2	24
886	PG957	4763.681	1409.814	>	151	17	190	22	75	1.14	.65	205	>	.20	35	10	.033	3.00	31	.21	1.6	2	32
887	PG958	4763.871	1409.207	>	99	14	264	15	38	.49	.45	151	>	.46	52	7	.308	7.70	46	.24	2.1	2	70
888	PG959	4764.564	1408.900	>	139	10	171	17	40	1.02	.58	202	>	.22	61	12	.079	4.00	28	.17	.9	2	40
889	PG960	4764.658	1408.765	>	109	11	229	16	10	.51	.88	623	>	.46	57	2	.104	4.40	40	.23	1.8	2	65
890	PG961	4765.181	1408.349	>	105	7	198	14	14	.34	.49	368	>	.27	50	2	.018	5.70	39	.19	1.7	2	39
891	PG962	4766.499	1408.699	>	139	13	166	19	19	.58	.46	218	>	.33	41	4	.060	2.00	36	.20	1.4	2	44
892	PG963	4767.780	1408.135	>	111	10	222	14	34	1.00	.60	334	>	.47	52	2	.101	2.80	45	.26	1.8	2	60
893	PG964	4767.506	1407.158	>	90	7	169	10	32	.52	.32	34	>	.23	34	2	.040	>	31	.17	1.5	2	43
894	PG965	4767.808	1407.077	>	102	9	164	14	13	.56	.46	175	>	.33	52	3	.062	3.60	34	.20	1.7	2	48
895	PG966	4766.644	1405.448	>	113	13	177	29	34	1.52	.75	466	>	.68	49	5	.196	5.50	64	.32	2.1	2	103
896	PG967	4766.479	1405.426	>	80	2	68	6	10	.21	.13	43	>	.05	13	3	.052	3.50	15	.11	1.6	2	13
897	PG968	4766.618	1405.370	>	98	9	143	11	24	.51	.40	86	>	.29	36	7	.080	5.20	30	.17	1.5	2	37
898	PG969	4766.096	1404.355	>	86	4	125	14	16	.41	.31	69	>	.22	26	4	.062	2.70	25	.15	1.2	2	31
899	PG970	4764.786	1404.522	>	71	2	166	5	10	.19	.15	72	>	.08	26	2	.012	3.80	15	.10	1.7	2	17

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Ser. No.	Sample No.	Location (km)	As ppm	Au ppb	Ba ppm	Co ppm	Cr ppm	Cu ppm	Hg ppb	K %	Mg %	Mn %	Mb ppm	Na %	Ni ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	W ppm	Zn ppm
901	PGh27	4764.896	1404.576	1	77	3	76	4	10	.19	.12	.03	1	.03	11	5	.012	3.00	15	.11	2.2	2	14
902	PGh28	4764.722	1403.698	1	56	3	143	7	14	.17	.15	.27	1	.07	21	5	.016	1.50	18	.11	1.4	2	22
903	PGh29	4765.925	1403.297	1	61	3	90	5	10	.15	.12	14	1	.06	12	4	.014	5.10	15	.11	1.4	2	22
904	PGh30	4765.553	1403.305	1	91	5	153	10	22	.41	.34	91	1	.23	42	5	.060	3.70	28	.15	2.0	2	22
905	PGh31	4766.121	1402.840	1	140	12	143	21	41	1.03	.54	240	1	.48	42	7	.096	4.50	52	.26	1.9	2	22
906	PGh32	4762.477	1401.689	1	58	1	129	6	14	.19	.17	12	1	.10	26	7	.024	1.70	19	.12	1.3	2	22
907	PGh33	4762.586	1401.723	1	54	6	122	6	24	.17	.13	5	1	.08	24	5	.020	3.20	18	.12	1.3	2	22
908	PGh34	4763.344	1400.651	1	39	3	179	4	11	.03	.07	5	1	.02	38	3	.017	5.30	14	.06	1.7	2	22
909	PGh35	4765.339	1400.703	1	151	11	196	13	34	.63	.38	96	1	.23	41	6	.150	3.60	38	.20	1.7	2	22
910	PGh36	4766.024	1401.524	1	124	6	158	9	17	.37	.29	19	1	.25	41	6	.039	7.00	28	.15	1.4	2	22
911	PGh37	4765.859	1401.436	1	135	8	395	10	25	.39	.32	65	1	.27	68	2	.044	5.30	29	.17	1.7	2	22
912	PGh38	4766.181	1401.146	1	163	16	581	15	30	.54	.55	323	1	.27	220	175	.080	5.70	54	.36	1.5	2	22
913	PGh39	4766.175	1401.016	1	382	33	198	29	51	.57	1.05	1011	1	.31	42	8	.091	4.60	65	1.43	1.2	2	22
914	PGh40	4765.791	1400.666	1	156	10	170	12	33	.38	.28	375	1	.25	51	4	.047	2.00	30	.29	1.4	2	22
915	PGh41	4767.446	1402.057	1	123	11	154	13	26	.46	.56	444	1	.25	38	4	.081	6.10	54	.31	1.0	2	22
916	PGh42	4768.312	1401.480	1	427	23	134	26	51	.98	.91	1486	1	.49	34	14	.061	5.10	115	.69	1.3	2	22
917	PGh43	4768.468	1401.937	1	575	36	153	31	48	.84	1.63	1419	1	.52	32	2	.032	2.70	155	1.02	1.8	2	22
918	PGh44	4768.548	1402.055	1	133	14	129	15	28	.46	.59	540	1	.25	35	5	.068	5.70	58	.42	1.1	2	22
919	PGh45	4768.955	1402.818	1	142	10	184	20	28	.28	.88	594	1	.14	65	8	.040	3.10	50	.54	1.0	2	22
920	PGh46	4769.550	1403.649	1	113	15	150	20	35	.47	.69	687	1	.25	38	4	.100	5.10	68	.52	1.0	2	22
921	PGh47	4769.624	1403.495	1	109	18	151	19	31	.42	.71	524	1	.22	42	4	.034	2.40	88	.54	.8	2	22
922	PGh48	4767.961	1400.092	1	183	45	331	22	16	.22	1.56	1379	1	.14	37	4	.029	8.30	70	1.71	.5	2	22
923	PGh49	4768.096	1400.175	1	50	50	186	31	86	.69	.42	123	1	.19	52	10	.038	14.10	79	1.94	.6	2	22
924	PGh50	4769.003	1400.885	1	171	27	150	25	50	.76	.89	1570	1	.19	29	10	.029	4.80	85	1.22	.9	2	22
925	PGh51	4769.688	1401.840	1	237	43	188	31	49	.55	2.13	1520	1	.29	36	2	.033	4.80	149	1.55	.6	2	22
926	PGh52	4763.845	1409.828	1	395	18	120	23	61	1.71	.83	220	1	.48	54	11	.236	3.60	66	.33	2.1	2	22
927	PGh53	4766.742	1404.604	1	275	15	142	24	121	1.03	.57	145	1	.42	51	12	.285	2.0	53	.23	1.7	2	22
928	PGh54	4768.933	1400.761	1	191	20	187	23	48	.79	1.17	142	1	.40	45	12	.026	9.60	186	.86	.6	2	22
929	PGh55	4767.413	1402.196	1	101	8	104	14	48	.69	.42	123	1	.19	39	8	.071	3.0	44	.24	1.6	2	22
930	PGh56	4768.834	1400.047	1	119	38	222	27	32	.54	1.82	1247	1	.38	50	2	.034	8.30	167	1.18	.4	2	22
931	PGh57	4765.674	1400.289	1	67	8	100	12	29	.28	.31	162	1	.12	33	8	.057	2.70	27	.27	1.5	2	22
932	PGJ01	4764.528	1398.541	1	74	10	227	13	24	.31	.23	51	1	.12	48	13	.025	4.40	30	.18	1.2	2	22
933	PGJ02	4761.746	1398.176	1	81	4	222	13	24	.34	.27	58	1	.19	32	8	.103	4.70	36	.18	1.4	2	22
934	PGJ03	4761.870	1398.220	1	58	5	271	7	18	.21	.15	49	1	.11	25	12	.033	3.00	25	.14	1.4	2	22
935	PGJ04	4761.887	1396.971	1	49	5	227	8	27	.16	.11	22	1	.06	41	8	.058	2.60	21	.15	1.4	2	22
936	PGJ05	4764.784	1399.051	6	81	11	341	13	32	.30	.38	235	1	.18	32	11	.058	4.40	30	.18	1.4	2	22
937	PGJ06	4767.670	1399.073	1	163	12	282	16	74	.45	.49	285	1	.28	39	16	.261	6.20	34	.38	1.4	4	54
938	PGJ07	4767.879	1399.083	1	70	38	282	20	19	1.0	.87	1101	1	.10	35	2	.021	11.80	52	2.25	.6	6	118
939	PGJ08	4768.794	1399.083	1	74	81	394	35	19	1.4	2.53	1960	1	.12	34	2	.031	14.80	90	2.75	.4	4	225
940	PGJ09	4768.330	1397.996	1	96	30	256	25	28	.11	.09	820	1	.12	35	2	.020	9.70	72	1.55	.4	4	202
941	PGJ10	4768.146	1396.053	1	80	5	521	8	10	.11	.28	500	1	.17	27	5	.016	5.80	46	.86	.8	2	38
942	PGJ11	4760.659	1396.290	1	46	3	164	7	10	.21	.15	63	1	.17	28	3	.013	4.20	22	.13	1.2	3	22
943	PGJ12	4761.098	1396.209	1	64	64	225	8	22	.15	.10	14	1	.04	21	6	.029	4.00	20	.11	1.0	2	22
944	PGJ13	4766.919	1395.843	1	54	3	175	39	17	.20	2.48	1144	1	.51	412	10	.011	10.60	55	.49	.6	8	25
945	PGJ14	4761.538	1394.899	1	70	1	165	6	10	.15	.09	47	1	.07	13	10	.012	3.40	16	.16	1.6	4	14
946	PGJ15	4761.825	1394.036	1	115	5	164	9	10	.30	.19	126	1	.18	19	6	.014	1.30	27	.16	1.6	4	14
947	PGJ16	4760.091	1394.481	1	53	3	211	6	10	.22	.09	5	1	.10	18	10	.014	3.20	19	.13	1.0	2	24
948	PGJ17	4761.975	1394.011	1	88	17	345	10	18	.22	.35	386	1	.14	35	13	.025	6.70	29	.68	1.6	2	17
949	PGJ18	4762.558	1394.262	1	108	4	652	11	13	.28	.17	105	1	.16	202	13	.018	5.10	26	.18	1.0	2	53
950	PGJ19	4762.580	1394.931	1	112	6	223	13	147	.37	.34	330	1	.25	51	8	.036	1.80	35	.30	1.6	2	39