





List of pan concentrate sample in Kinabalu area

Area: Kinabalu Area

		NI CO		<u> </u>						PC "T
Ser. No.	Sample No.	Coordi N	nates E	Topographic Map Sheet	Name of Stream	Weight (g)	0rder	Width (m)	Flow	Size
1 2 3 4 5 6 7 8 9	U539 H520 R512 H519 U546 S519 S522 U540 U538 U525	1614.20 1609.45 1607.65 1605.75 1601.65 1598.45 1597.60 1596.55 1617.90 1609.20	4626.30 4625.00 4625.35 4622.30 4624.50 4629.65 4622.00 4621.50 4638.10 4639.30	Surob Surob Surob Surob Surob Surob Surob Surob Surob	S. Pandasan S. Tampado S. Bugan S. Templuki S. Surob S. Surob S. Rumoloh S. Wariu S. Sungei S. Terantidan	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	3 3 4 3 3 4 4 4 3 3	7.0 4.0 4.0 3.0 7.0 2.0 4.0 25.0 10.0 5.0	3 1 1 2 2 2 2 3 4 3 3	2 3 2 2 1 2 2 2 2 2 2
11 12 13 14 15 16 17 18 19 20	P533 S520 S521 U558 H514 P516 U517 G510 R513 S525	1608.95 1595.80 1595.50 1594.00 1612.00 1601.20 1601.70 1595.15 1588.60 1587.90	4639.30 4630.25 4637.95 4648.95 4641.50 4648.85 4644.10 4626.30 4626.10	Surob Surob Surob Surob Surob Surob Surob Surob Kinabalu Kinabalu	S. Bandau S. Rumoloh S. Rumoloh S. Kinaram S. Tuaran S. Tuaran S. Kinaram S. Kinaram S. Warlu S. Warlu	1 4 2 11 2 < 1 3 2 37 1	4 3 3 4 4 4 4 3 3 3	7.0 4.0 5.0 12.0 5.0 7.0 20.0 8.0 10.0 5.0	3 3 3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21 22 23 24 25 26 27 28 29 30	S523 S524 U544 S526 T518 D550 T521 N642 N643 J516	1585.95 1586.00 1578.90 1577.60 1566.30 1563.15 1562.80 1576.90 1576.85 1574.59	4628.15 4628.30 4621.70 4621.65 4621.60 4631.95 4636.90 4640.40 4640.40	Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu	S. Warlu S. Warlu S. Libang S. Penataran S. Kadamaran S. Mesilau S. Berembang S. Kinapassan S. Kinapassan S. Nalumad	3 < 1 18 2 6 39 1 < 1 22	3 3 4 3 4 4 3 4 3 4	7.0 6.0 12.0 4.5 5.5 8.0 4.0 6.0 4.0 7.0	3 3 4 4 3 4 4 4	3 3 2 2 1 2 1 1 1
31 32 33 34 35 36 37 38 39 40	D517 T519 T520 D516 D509 D510 D511 D512 G522 D501	1574.55 1568.20 1568.35 1567.85 1553.45 1553.30 1547.15 1546.85 1541.60 1558.85	4646.00 4644.30 4644.35 4644.75 4629.40 4629.05 4626.20 4626.05 4621.50 4633.35	Kinabalu Kinabalu Kinabalu Kinabalu Ranau Ranau Ranau Ranau Ranau	S. Mokodou S. Langanani S. Nigong S. Mantukungar S. Liodan S. Kenipir S. Mensangoh S. Melaut S. Melaut S. Mesilau	5 109 4 6 2 < 1 < 1 1 10	2 3 4 2 3 3 4 4 4	5.0 4.0 5.5 4.0 12.0 15.0 15.0 13.0 6.0 12.0	3 4 3 2 3 3 3 3 3	2 1 2 2 2 2 2 2 2 2 2 2 1 2
41 42 43 44 45 46 47 48 49 50	D502 G501 D507 G502 G508 D515 F541 F542 T523 P531	1558.85 1557.50 1551.65 1552.50 1552.15 1545.90 1546.80 1546.95 1544.60 1540.25	4633.10 4637,40 4630.50 4636.70 4637.35 4630.15 4639.90 4639.65 4636.35 4633.05	Ranau Ranau Ranau Ranau Ranau Ranau Ranau Ranau Ranau Ranau	S. Liwagu S. Banbangan S. Samalang S. Kihunut S. Kenipir S. Luidu S. Terelebau S. Melaut S. Kingangaran S. Telamas	2 7 <1 2 2 7 1 1 6 4	4 3 3 3 4 4 4 5 3 4	10.0 7.0 8.0 4.0 10.0 20.0 8.0 12.0 4.5 5.0	3 4 3 4 4 2 3 4 3 4	2 1 2 1 1 2 1 1 3 2

Stream flow*1: none(0), puddle(1), slow(2), moderate(3), fast(4) Grain size*2: coarse-grained(1), medium-grained(2), fine-grained(3), clayey(4)

Area: Kinabalu Area

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Ser. No.	Sample No.	Coordi N	nates E	Topographic Map Sheet	Name of Stream	Weight (g)	0rder	Width (m)	Flow	Size
51 52 53 54 55 56 57 58 59 60	P532 N501 G503 B587 P530 R514 Y627 Y628 C541 B582	1540.50 1555.30 1553.85 1549.07 1539.95 1528.65 1527.73 1527.60 1523.10 1519.54	4633.35 4641.85 4640.60 4643.80 4645.20 4629.10 4628.12 4628.36 4621.40 4621.37	Ranau Ranau Ranau Ranau Ranau Barambang Barambang Barambang Barambang	S. Telamas S. Mensaban S. Kaingaran S. Liwagu S. Sinelon S. Kegibangan S. Kegibangan S. Kegibangan S. Kionop S. Kaingaran	2 3 5 2 6 7 6 4 < 1 2	1 3 3 3 3 3 3 3 3 4	3.0 7.0 5.0 3.0 6.0 10.0 8.0 10.0 5.0	4 3 3 4 3 4 4 1	2 1 2 1 2 2 2 1 1 3 1
61 62 63 64 65 66 67 68 69 70	G537 G535 G536 G534 Y624 Y621 Y622 G530 G531 G539	1527. 25 1526. 50 1526. 15 1523. 35 1520. 50 1517. 65 1517. 70 1507. 45 1507. 65 1528. 00	4636.80 4636.20 4636.30 4636.20 4634.25 4636.50 4635.60 4630.50 4631.45 4640.40	Barambang	S. Kegibangan S. Kegibangan S. Kegibangan S. Kegibangan S. Pisa S. Kegibangan S. Liwagu S. Kaintano B. S. Sinsuran S. Kegibangan	1 2 3 4 2 1 1 < 1 < 1 4	3 4 4 3 3 3 4 3 4 2	4.0 4.0 4.0 3.0 6.0 3.5 7.0 4.0 2.0 1.0	4 3 4 4 3 3 3 4 4	1 1 1 1 2 2 2 1 1
71 72 73 74 75 76 77 78 79 80	G538 G541 G509 G525 G526 F540 P529 P519 P521 P526	1527.30 1527.92 1527.45 1522.05 1514.75 1514.05 1620.10 1621.20 1620.25	4641.45 4643.76 4645.25 4646.75 4646.60 4648.60 4645.80 4649.45 4659.65	Barambang Barambang Barambang Barambang Barambang Barambang Barambang Tandek Tandek	S. Kegibangan S. Taliu S. Penutongan S. Wallai S. Wallai S. Bidon S. Bidon S. Bandau S. Tandek S. Rosak	3 1 2 <1 <1 <1 <1 <1 <1	3 3 3 3 3 4 3 5 3 4	3.0 4.0 6.0 1.5 3.0 7.5 5.0 15.0 4.0	4 4 4 4 4 2 3 2	1 1 2 3 3 2 2 2 3 3 3 3
81 82 83 84 85 86 87 88 89	P525 P518 M571 M570 G519 P528 U518 P517 U520 U521	1618. 95 1619. 00 1634. 90 1630. 85 1624. 65 1636. 80 1601. 50 1617. 45 1612. 40 1609. 45	4652.70 4655.40 4668.10 4662.10 4661.05 4676.70 4649.20 4658.80 4659.85 4657.50	Tandek Tandek Tandek Tandek Tandek Tandek Gana Gana Gana Gana	S. Bongon S. Silimupodon S. Marasimsim S. Baliajong S. Pamaitan S. Rosak S. Menurodjang S. Bongon	1 5 54 19 2 2 2 2 < 1 < 1	35333443434	6.0 15.0 2.0 8.0 2.0 4.0 10.0 3.5 8.0 12.0	2 3 2 1 2 2 2 3 3 3	3 3 2 2 1 1 2 3 2
91 92 93 94 95 96 97 98 99	U519 U522 U523 R505 R506 R507 R508 G511 G512 M568	1606.30 1608.75 1605.45 1595.46 1595.70 1595.35 1603.90 1604.15 1615.35	4651.65 4656.60 4651.95 4650.65 4650.30 4650.15 4658.60 4666.65 4666.40 4671.55	Gana Gana Gana Gana Gana Gana Gana Gana	S. Kinaram S. Kinaram S. Kinaram S. Pamaitan S. Pamaitan S. Pamaitan S. Pamaitan S. Pamaitan S. Bengkoka S. Bengkoka	1 2 1 < 1 2 45 < 1 < 1 1	3 3 4 4 3 3 3 3 3 5	3.5 6.0 7.0 6.0 6.0 5.0 4.0 8.0 20.0	3 3 2 2 2 3 3 2 2	2 2 2 3 3 3 2 3 3 3

Stream flow*1: none(0), puddle(1), slow(2), moderate(3), fast(4) Grain size*2: coarse-grained(1), medium-grained(2), fine-grained(3), clayey(4)

Area: Kinabalu Area

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Ser. No.	Sample No.	Coordi N	nates E	Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow	Size
101	M569	1615.60	4671.80	Cono	S. Bengkoka	2	4	20.0	2	3
				Gana			3	3.5	3	3
102	G523	1614.40	4670.80	Gana	S. Bengkoka	1				
103	R510	1608.05	4670.65	Gana	S. Bengkoka	< 1	4	20.0	4	2
104	G515	1605.50	4672.65	Gana	S. Bengkoka	< 1	3	3.0	3	3
105	G513	1594.25	4675.80	Gana	S. Linkabau	< 1	3	4.0	3	3
106	G514	1594.50	4676.20	Gana	S. Linkabau	< 1	3	3.0	3	3
107	T502	1581.80	4654.00	Merungin	S. Kapuakan	29	4	11.0	3	2
108	T503	1581.65	4654.10	Merungin	S. Pandiruan	13	4	7.5	3	2
109	R502	1581.50	4659.25	Merungin	S. Daramakan	2	3	5.0	3	2
110	R501	1574.80	4656.90	Merungin	S. Mirali	4	3	3.0	3	2
110	1/901	1314.00	4000.00	hier migrn	J. WILL	1	-	0.0		
311	F503	1570.90	4654.00	Merungin	S. Mankadan	20	5	25.0	4	1
111								10.9		
112	F504	1570.70	4653.85	Merungin	S. Langanan	18	4		4	1
113	T511	1571.00	4655.95	Merungin	S. Mirali	68	5	15.0	3	2
114	M501	1563.25	4651.45	Merungin	S. Luhan	92	3	5.0	4	2
115	M502	1563.05	4651.60	Merungin	S. Mirali	3	5	10.0	3	2
116	M503	1563.75	4653.40	Merungin	S. Mirali	. < 1	4	8.0	3	2
117	R504	1585.40	4665.95	Merungin	S. Luanan	< 1	: 3	9.0	4	2
118	T505	1582.45	4665.25	Merungin	S. Luanan	2	3	4.0	3	. 1
119	T507	1579.80	4668.90	Merungin	S. Mirali	1	2	4.5	2	2
120	T506	1577.35	4663.00	Merungin	S. Merungin	< 1	3	4.5	2	2
1.00	1000	1011.00	1000.00	mor ungin	5. MOI 0118111					
121	M504	1574.15	4661.60	Merungin	S. Mirali	1	4	15.0	4	2
		1566.10	4662.80		S. Kaingaran	3	4	8.0	3	3
122	T512			Merungin		< 1	4	10.0	2	3
123	D602	1566.60	4668.65	Merungin	S. Kawiyan					2
124	D603	1565.95	4668.25	Merungin	S. Kawiyan	< 1	3	3.0	3	
125	D601	1562.90	4669.65	Merungin	S. Kawiyan	< 1	4	8.0	2	3
126	T509	1586.65	4670.10	Merungin	S. Melinsan	2	3	6.0	3	2
127	T510	1586.65	4670.40	Merungin	S. Melinsan	2	3	6.5	3	1
128	R503	1581.05	4671.50	Merungin	S. Melinsan	< 1	3	18.0	2	4
129	T508	1579.95	4670.95	Merungin	S. Melinsan	< 1	4	5.5	2	3
130	T513	1570.15	4670.30	Merungin	S. Kawiyan	3	4	7.0	2	3
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131	T514	1570.45	4670.35	Merungin	S. Kaingaran	4	4	15.0	3	2
132	U549	1569.95	4672.60	Merungin	S. Kaingaran	<1 ·	4	3.0	3	2
133	P501	1546.95	4649.65	Paginatan	S. Mindahuon	1	4	2.5	4	2
134	F501	1560.65	4650.75	Paginatan	S. Kananapon	3	4	9.0	4	1
135	F502	1560.30	4651.10	Paginatan	S. Mirali	3	4	11.0	4	: 1
136	P510	1560.20	4654.35	Paginatan	S. Mirali	< 1	3	4.0	3	3
137	P511	1560.20	4654.70	Paginatan	S. Mirali	₹1	4	8.0	3	3
						< 1	3	4.0	4	1
138	P512	1561.70	4654.35	Paginatan	S. Mirali				_	2
139	U502	1555.90	4651.45	Paginatan	S. Bayaan	4	3	10.0	3	
140	U503	1555.95	4651.70	Paginatan	S. Bereing	1	3	20.0	4	2
14.	III a 1	1541.00	4050 00	D-4:1	C 11-1	/ 1	2	19 n	,	3
141	H501	1541.00	4656.70	Paginatan	S. Malopang	< 1	3	13.0	3	
142	U505	1539.45	4655.75	Paginatan	S. Tassun	1	4	8.0	3	2
143	U515	1561.20	4663.75	Paginatan	S. Kaingaran	2	4	9.0	3	2
144	P514	1561.10	4664.05	Paginatan	S. Kaingaran	< 1	3	5.0	3	2
145	P513	1540.90	4666.70	Paginatan	S. Meringkan	< 1	3	10.0	4	1
146	H503	1550.50	4670.15	Paginatan	S. Dual	1	3	5.0	3	2
147	H504	1550.80	4670.10	Paginatan	S. Tungud	2	3	5.0	3	2
148	P508	1550.20	4670.50	Paginatan	S. Karunsadun	< 1	3	10.0	3	ī
149	U506	1550.45	4674.50	Paginatan	S. Tungud	1	4	6.0	3	2
					S. Tungud	2	4	30.0	3	2
150	U507	1550.35	4674.75	Paginatan	o. Tunguu		4	30.0		
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Stream flow*1: none(0), puddle(1), slow(2), moderate(3), fast(4) Grain size*2: coarse-grained(1), medium-grained(2), fine-grained(3), clayey(4)

Area: Kinabalu Area

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Ser. No.	Sample No.	Coordi N	nates E	Topographic Map Sheet	Name of Stream	Weight (g)	Order	Width (m)	Flow	Size
151 152 153 154 155 156 157 158 159 160	H518 G520 G521 P502 H515 U529 H516 H517 P522 T525	1526. 10 1514. 20 1514. 20 1534. 20 1527. 50 1527. 95 1528. 70 1528. 70 1520. 95 1517. 80	4649.35 4649.90 4649.55 4657.45 4650.60 4652.80 4657.40 4659.30 4655.50	Tampias	S. Kagibangan S. Bidon S. Bidon S. Mankalabu S. Libangan S. Langodot S. Bidon S. Bidon S. Bidon S. Lakimut	< 1 1 5 < 1 < 1 < 1 < 1 < 1	5 3 5 4 3 3 4 5 3 3	5.0 4.0 4.0 3.0 5.0 3.0 10.0 3.0 5.0 3.0	4 3 4 3 4 3 3 4 3 3 3	2 1 2 1 2 2 2 2 2 2
161 162 163 164 165 166 167 168 169 170	U532 R511 P506 P507 H502 D556 Y582 P523 P524 Y575	1518.80 1514.50 1533.25 1534.20 1530.80 1525.70 1513.00 1531.95 1533.10 1523.25	4657.65 4652.90 4666.75 4664.20 4668.70 4663.10 4669.40 4676.05 4675.95 4675.90	Tampias	S. Mentabungan S. Bidon S. Meringkan S. Bilisok S. Kalawatan S. Bidon S. Karamuak S. Liwagu S. Menkadait S. Taviu	< 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1	4 4 3 4 3 4 3 4	10.0 9.0 13.0 7.0 5.8 5.0 12.0 5.0 8.0 15.0	3 2 4 4 3 3 3 4 3	2 1 1 2 2 3 3 1
171 172 173 174 175 176 177 178 179 180	Y577 Y578 Y580 Y211 K202 S206 S205 Y212 Y207 Y209	1523.40 1524.40 1514.10 1575.30 1589.45 1579.50 1574.10 1574.60 1574.00 1575.25	4675.70 4676.50 4672.40 4677.60 4689.60 4683.30 4681.93 4684.55 4686.12 4688.15	Tampias Tampias Tampias Linkabau Linkabau Linkabau Linkabau Linkabau Linkabau	S. Taviu S. Taviu S. Karamak S. Karagasan S. Buan S. Ogan S. Sugut S. Ogan S. Sugut S. Tungtonarom	< 1 < 1 2 1 1 < 1 2 < 1 2 1	4 3 4 3 3 3 3 3 2 2	10.0 1.0 5.0 5.0 10.0 4.0 10.0 6.0 3.0	3 2 3 3 3 3 3 3 3 4 3	2 3 3 2 3 3 3 2 3
181 182 183 184 185 186 187 188 189	C207 D203 S204 C210 K201 Y206 P208 P209 S203 D202	1564.57 1582.65 1580.75 1576.10 1578.20 1577.95 1564.10 1566.40 1568.20 1567.05	4682.70 4696.95 4698.90 4690.85 4696.25 4698.10 4692.55 4694.18 4699.23 4699.75	Linkabau Linkabau Linkabau Linkabau Linkabau Linkabau Linkabau Linkabau Linkabau	S. Soviun S. Linkabau S. Karapui S. Yaigau S. Sugut S. Puntodong S. Tungud S. Tungud S. Tungud S. Tungud S. Sasau	2 1 2 2 1 1 < 1 2 2 127	3422333333	5.0 16.8 4.0 5.0 3.0 5.0 7.0 6.0 7.0	2 2 2 3 3 3 3 2 3	1 3 3 1 4 4 2 2 3 2
191 192 193	Y214 P210 H206	1584.85 1582.35 1566.70	4703.35 4702.80 4704.22	Linkabau Linkabau Linkabau	S. Sugut S. Sugut S. Tungud	1 1 29	2 2 2	1.5 4.0 6.0	2 3 3	4 2 2

Stream flow*1: none(0), puddle(1), slow(2), moderate(3), fast(4)

Grain size*2: coarse-grained(1), medium-grained(2), fine-grained(3), clayey(4)

Results of qualitative mineral examination of pan concentrates in Kinabalu area

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S	er. Sample o. No.	Mative gold	Mativesilver	→ Hagnetite	Chromite	Spine!	Hematite	f Ilmenite	- Leucoxene	Rutile	Brookite	Pyrite	Goethite	Chalcopyrite	Sornite	Olivine	Augite	Expersthene	Moinblende	Actinolite	Clinozoisite	Tourmaline	Сатте	No Zilcon	Monazite	Quartz	Feldspar	& Apatite	Biotite	Muscovite	Epidote	Cinnabar	≅ Clastics
	1 U539 2 H520 3 R512 4 H519 5 U546 6 S519 7 S522 8 U540 9 U538			4 14 4 3 9 2 27 31 2	21 20	1 tr	et its 1 24 38 8 5 13 1 7 6	tr tr tr tr tr tr	3 6 2 1 2 1	1					1	1 4 3 3	1 2 1 tr	2 1	1					4 2 3 1 1 2		211970 47 43 48 33 65 69 28 30 72 91 46 31 37 7	11 to 11 to 12 to 15 to	14 1 1 tr					12 4 6 3 1 7
	10 U525 11 P533 12 S520 13 S521 14 U558 15 H514 16 P516 17 U517 18 C510 19 R513			10 19 16 37 32 33 11 17 25	11 4 22 9 25 37 17	tr	27 20 16 16 3 6 7	tr tr tr 1	tr 2 1 1 tr tr	1		2 tr tr	28 tr tr		tr	1 3 7 tr	1 2	tr tr	tr tr		1	tr	tr	tr tr tr	tr	46 31 37 7 35 49 69 46 1	10 9 8 4 1 3 4 6 9 15	tr					4 6 13 1 2 12
	20 S525 21 S523 22 S524 23 U544 24 S526 25 T518 25 D550 27 T521 28 N642 29 N643 30 J516		tr	21 8 18 44 70 11 29 10 17 33 56	5 3 tr tr	1 1 tr tr	6 7 9 5 2 1 42 20	tr tr 1 tr tr tr tr	3 1 tr	tr	tr	tr tr 30	4		tr	12 8 4 14 3 5	tr 1 tr tr tr	2 1 3 2 2 tr	2 tr 1 17 15 2 23	1		tr	tr tr	1 tr tr tr		52 31 21 13 80 48 34 31 39	9 15 12 1 3 2 5 9	tr 1	1		tr		1 9
	31 D517 32 T519 33 T520 34 D516 35 D509 36 D510 37 D511 38 D512 39 G522 40 D501			56 21 6 13 22 8 tr tr tr 1 23	tr 5		15 12 35 29 63 26 6	tr tr tr tr tr tr tr	tr 1 2 2 1 1	tr tr tr tr	tr tr tr	88 4 tr 6 tr	tr 3 tr tr tr 2 tr				tr	tr	23 2 tr tr 3 tr	tr		tr tr 1 tr	tr tr tr tr tr	tr 1 1 3 1	tr tr	72 58 63 48 65 29 70	tr 3 4 tr 1 tr 2 3			tr		tr .	Į.
	41 D502 42 G501 43 D507 44 G502 45 G508 46 D515 47 F541 48 F542 49 T523 50 P531			25 7 tr tr 2 tr 1 2			43 1 6 85 29 9 34	tr tr tr	tr tr tr 8 1 tr 8	tr tr tr tr	tr	tr 39 tr tr	3 30 5 tr 3 69 75	1	1		tr tr tr tr	tr tr	1 tr 2 tr	11 1	8	tr tr tr	tr tr tr tr	1 tr 3 2 3		88 53 24 20 82 14 64 31 35 26 25 46	1 tr tr tr 22 tr 9	1			7	tr	24 2 24
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Ser. No.	Sample No.	Mative gold	Mativesilver		Chromite	Spinel	Hematite	Ilmenite	≅ Leucoxene	Rutile	Brookite	Pyrite	Coethite	Chalcopyrite	Bornite	Olivine	Augite	Eypersthene	Foliablende	⇔Actinolite	Climozoisite	Tournaline	Carnet	Zilcon	Monazite	# Quartz	- Feldspar	Apatite	Biotite	Muscovite	Epidote	Cimabar	SClastics
51 52 53 54 55 56 57 58 59	P532 N501 G503 B587 P530 R514 Y627 Y628 C541			2 19 35 43 tr tr tr	2		tr 64 48 23 6 7	tr tr	18 tr 2 22 6 2 2	tr	tr	tr	tr 1 2 15 6			2	1	tr 5	tr 2	6 12 2	1			2	1	41 8 4 1 25 40 45 33 58 69	6 5 14 13 12 18 26 22 6	3 4 1			7		tr 21 27 29 23 3
50 61 62 63 64 65 66 67 68	8582 6537 6535 6536 6534 7624 7621 7622 6530 6531			1 2 tr tr 1 4 5			1 3 2 8 10 20	tr tr	14 2 5 4 8 9 5 9	1	1	1					1		tr 2	7 22 11	1			1		25 28 33 33 22 9 39 37 34 39 33	8 15 16 11 25 29 24 30 21	1 2		1	3		42 24 31 43 49 53 20 12 8
70 71 72 73 74 75 76 71 78 79 80	G539 G538 G541 G509 G525 G526 F540 F529 F519 F521 F526			tr 3 29 18 9 3 7 5	tr		2 17 27 26 22 20 31 21	tr tr tr tr tr tr tr	4 6 2 7	tr 3 2	tr	tr	3				1	tr	2	4 3 tr 1	tr		tr	2 tr 2 1		33 42 95 36 27 35 45 60 46 68	13 15 tr 11 15 18 36 1	tr tr			1 tr		3 5 3 2 8 16 4
81 82 83 84 85 86 87 88 89	P525 P518 P518 M571 M570 G519 P528 U518 P517 U520 U521			40 22 14 16 29 46 1 12 tr 5	28 15 1 3 9	1 tr 1	26 47 24 18 20 8 32 9 25	tr tr tr 1 1 tr	tr 3 7 tr 3 tr tr tr	tr tr 1		tr 1 tr	1 3 tr tr tr tr			1 2 9 8 6	2 tr 3 1 tr 4	2 1 1 6 tr		2 3		tr tr	tr 1	tr 8 3 2		16 25 3 37 2 79 43 85 58	1 16 31 tr 13 tr tr tr						6 1 5
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List of rock geochemical samples in Kinabalu area

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Ser No	Sample No.	Coordi N	nates E	1/50,000 Topo. Sheet	Name of Stream	Descriptions	Geol. Unit
1 2 3 4 5 6 7 8 9	U516 U526 U553 U556 D518 D547 D551 N644 U527 U542	1600.10 1611.78 1611.12 1593.02 1574.12 1564.73 1566.49 1576.77 1567.42 1578.74	4645.43 4637.16 4632.99 4635.13 4648.28 4644.67 4630.40 4638.42 4641.26 4623.86	Surob Surob Surob Surob Kinabalu Kinabalu Kinabalu Kinabalu Kinabalu	S. Kinaram S. Terantioan S. Terantioan S. Kinaram S. Mokodou S. Bangkud S. Mesilau S. Kinapassan S. Langanani S. Libang	sandstone sandstone sandstone peridotite peridotite serpentinite sandstone diorite porphyry sandstone green schist	P ₂ Cr P ₂ Cr P ₂ Cr Ub Ub Ub P ₁ Ts I ₁ P ₂ Cr Ub
11 12 13 14 15 16 17 18 19 20	U543 Y589 Y590 Y591 D504 D505 D513 D522 D527 D528	1577.93 1587.22 1585.66 1585.73 1557.17 1554.24 1546.92 1560.93 1560.83 1559.95	4622.98 4647.53 4642.80 4642.65 4648.64 4648.91 4626.46 4643.23 4646.06 4646.87	Kinabalu Kinabalu Kinabalu Kinabalu Ranau Ranau Ranau Ranau Ranau Ranau Ranau	S. Libang S. Kapuakan S. Kapuakan S. Kapuakan S. Kananapon S. bayaan S. Mensangoh S. Luhan S. Luhan S. Kananapon	hornbrende diorite gabbro sandstone sandstone sandstone shale shale peridotite dacite porphyry peridotite	I 1 Ub P2Cr P2Cr P1Ts P1Ts P1Ts Ub I 1 Ub
21 22 23 24 25 26 27 28 29 30	F545 T524 T526 T527 Y626 G534 M572 P527 U533 M567	1540.58 1542.63 1536.36 1536.82 1514.55 1624.95 1631.27 1635.99 1624.95 1617.59	4639.90 4634.75 4626.34 4630.35 4632.73 4667.46 4668.63 4670.71 4673.05 4668.60	Ranau Ranau Ranau Ranau Barambang Tandek Tandek Tandek Tandek Gana	S. Tevelebau S. Kingangaran S. Melaut S. Telamas S. Kegibangan S. Baliajong S. Silimpodon S. Tambalolong S. Bengkoka S. Bengkoka	phyllite phyllite sandstone phyllite sandstone hornblende gabbro basalt serpentinite sandstone sandstone	P ₁ Ts Ub KPCs Ub P ₂ Cr P ₂ Cr
31 32 33 34 35 36 37 38 39 40	P515 T501 T504 T517 T522 P509 U501 U508 U509 U510	1567.02 1585.48 1574.47 1587.07 1587.36 1546.50 1553.91 1542.84 1541.95 1544.31	4659.85 4650.81 4674.39 4655.91 4675.89 4669.82 4653.40 4674.31 4675.79 4675.61	Merungin Merungin Merungin Merungin Merungin Paginatan Paginatan Paginatan Paginatan Paginatan	S. Mirali S. Kapuakan S. Sugut S. Daramakan S. Melinsan S. Karunsadun S. Bereing S. Mailo S. Mailo S. Peraganpang	dacite porphyry sandstone sandstone sandstone sandstone peridotite sandstone gabbro gabbro peridotite	I 1 P2Cr P2Cr P2Cr P2Cr Ub P1Ts Ub Ub Ub
41 42 43 44 45 46 47 48 49 50	U511 U512 U513 U514 N556 P503 P505 Y574 Y576 Y584	1544.97 1538.60 1538.07 1559.21 1519.29 1534.06 1534.16 1510.74 1523.20 1510.25	4664.92 4675.61 4674.57 4662.87 4667.16 4655.03 4654.54 4675.53 4675.94 4663.27	Paginatan Paginatan Paginatan Paginatan Tampias Tampias Tampias Tampias Tampias Tampias	S. Meringkan S. Menkadail S. Menkadail S. Kaingaran S. Karamuak S. Mankalabu S. Mankalabu S. Taviur S. Taviur S. Taviur	sandstone dolerite peridotite sandstone sandstone sandstone sandstone dolerite sandstone sandstone	P ₂ Cr KPCs Ub P ₂ Cr P ₂ Cr P ₁ Ts KPCs P ₂ Cr P ₂ Cr
51 52	Y210 Y208	1578.70 1571.30	4686.93 4686.24	Linkabau Linkabau	S. Tungtonarom	sandstone sandstone	P ₂ Cr P ₂ Cr
	No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	No. No. 1 U516 2 U526 3 U553 4 U556 5 D518 6 D547 7 D551 8 N644 9 U527 10 U542 11 U543 12 Y589 13 Y590 14 Y591 15 D504 16 D505 17 D513 18 D522 19 D527 20 D528 21 F545 22 T524 23 T526 24 T527 25 Y626 26 G534 27 M572 28 P527 29 U533 30 M567 31 P515 32 T501 33 <td< td=""><td>No. No. N 1 U516 1600.10 2 U526 1611.78 3 U553 1611.12 4 U556 1593.02 5 D518 1574.12 6 D547 1564.73 7 D551 1566.49 8 N644 1576.77 9 U527 1567.42 10 U542 1578.74 11 U543 1577.93 12 Y589 1587.22 13 Y590 1585.66 14 Y591 1585.73 15 D504 1557.17 16 D505 1554.24 17 D513 1546.92 18 D522 1560.83 20 D528 1559.95 21 F545 1540.58 22 T524 1542.63 23 T526 1536.36 24 T527 1536.82 <</td><td>No. N E 1 U516 1600.10 4645.43 2 U526 1611.78 4637.16 3 U553 1611.12 4632.99 4 U556 1593.02 4635.13 5 D518 1574.12 4648.28 6 D547 1564.73 4644.67 7 D551 1566.49 4630.40 8 N644 1576.77 4638.42 9 U527 1567.42 4641.26 10 U542 1578.74 4623.86 11 U543 1577.93 4622.98 12 Y589 1587.22 4647.53 13 Y590 1585.66 4642.80 14 Y591 1585.73 4642.65 15 D504 1557.17 4648.64 16 D505 1554.24 4648.91 17 D513 1546.92 4626.48 18 D522 1560.93</td><td> No. No. No. E</td><td> No. No. No. No. E</td><td> No. No. No. No. E</td></td<>	No. No. N 1 U516 1600.10 2 U526 1611.78 3 U553 1611.12 4 U556 1593.02 5 D518 1574.12 6 D547 1564.73 7 D551 1566.49 8 N644 1576.77 9 U527 1567.42 10 U542 1578.74 11 U543 1577.93 12 Y589 1587.22 13 Y590 1585.66 14 Y591 1585.73 15 D504 1557.17 16 D505 1554.24 17 D513 1546.92 18 D522 1560.83 20 D528 1559.95 21 F545 1540.58 22 T524 1542.63 23 T526 1536.36 24 T527 1536.82 <	No. N E 1 U516 1600.10 4645.43 2 U526 1611.78 4637.16 3 U553 1611.12 4632.99 4 U556 1593.02 4635.13 5 D518 1574.12 4648.28 6 D547 1564.73 4644.67 7 D551 1566.49 4630.40 8 N644 1576.77 4638.42 9 U527 1567.42 4641.26 10 U542 1578.74 4623.86 11 U543 1577.93 4622.98 12 Y589 1587.22 4647.53 13 Y590 1585.66 4642.80 14 Y591 1585.73 4642.65 15 D504 1557.17 4648.64 16 D505 1554.24 4648.91 17 D513 1546.92 4626.48 18 D522 1560.93	No. No. No. E	No. No. No. No. E	No. No. No. No. E

Analytical results of rock geochemical samples in Kinabalu area

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List and analytical results of soil geochemical samples in Kinabalu area

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A1	96	5.43	33.35	3.65	3.23	3.37	4.81	1.26	1.41	6.33	1.39	4.93	3.62	5.61	5,74	1.98	2.66	5.45	7.35	10.83	6.37	9.43	3.29	4.48	2.52	10.83	9.03	6.21	7.38	8.6	2.56
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ates	Э	4546.56	4646.58	4646.65	4546.72	4646.70	4646.70	4635.57	4535, 43	4636.02	4644.52	4648.60	4648.05	4544.67	4643.57	4640.62	4640.98	4642.22	4641.85	4641.60	4642.42	4641 42	4641.44	4643.32	4643.52	4640,23	4642.90	4640.62	4642.00	4642.57	4643.12
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"'Gravel: Many (M), Few (F), Rare or none (R) "-Grain siz "'Topography: Steep (S), Moderate (M), Flat (F) ""Humidity:

**Grain size: Sandy (S), Clayey (C)
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3	0526	1559.30	4643.28	Ranau	harzburgite	පු	45		-			1	Primary forest	9.56	263	9536	33.08	4363	30
32	0529	1561.72		Ranau	harzburgite	ഭ	45						Secondary forest	6.82	404	7970	20.85	4088	15
33	D230	1561.15		Ranau	harzburgite	ള	45	. B	ος,	۔ ن	 E	E	Primary forest	7.02	206	9267	36.68	6208	45
34	D531	1561.36	4643.98 Ranau	Ranau	harzburgite	a	45				<u>*</u>	-	Primary forest	5.73	499	7273	30.28	4820	45
32	D532	1561.58		Ranau	harzburgite	2	45	ഷ്	····				Primary forest	8.64	268	6407	29.52	2270	33
36	D533	1561.48	4644.92 Ramau	Ranau	harzburgite	ട	40	1. B.					Primary forest	8.45	2.1	118	4.42	80	< 5
37	D534	1560.85		Ranau	harzburgite	ള	40						Primary forest	8.56	257	8342	33.82	3043	30
ထ္ထ	D535	1559.93		Ranan	harzburgite	ള	45				······································		Secondary forest	3.12	204	3197	11.55	3022	15
39	D544	1562.04	4642.73	Ranau	harzburgite	s	40	0.8.					Primary jungle	4.19	358	5365	20.53	4968	30
40	0545	1561.80	4642.20	Ranau	harzburgite	ള	40	R. B.			-		Secondary forest	6.22	328	5782	-20.20	3795	45
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41	G527	1551.03	4646.13	Ranau	harzburgite	s	- - - -	æ	(t.	<u>ٽ</u>	S		Secondary forest	3.47	340	5580	20.03	4554	15
73	6528	1551.23	4645.57 Ranau		harzburgite	a	30	L. B.					Secondary forest	3.16	192	3068	11.02	1977	15
<u>بر</u> دن	6239	1551.60		Ranau	harzburgite	ß	30		(f.e	<u></u> ن	· ·	Se Se	Secondary forest	3.32	112	1804	9.09	1870	ιΩ
44	0536	1627.23			serpentinite	ള	45		 ;-			Bush		8.62	63	475	7.26	582	ដ
쯗	0538	1572.10		4654.57 Merungin	harzburgite	ß	40	D. B. G.					Primary forest	1.92	456	11395	7.67	2161	监
48	0538	1573.05		Merungin	harzburgite	ട	35	i. G.				٠.	Primery forest	3.16	5	1397	5.50	1912	22
47	0542	1572.53		4657.12 Merungin	harzburgite	ള	45	D. R. B.				:	Primary forest	9.59	93	296	6.72	130	× 5
48	D543	1571.65	4656.80	4656.80 Merungin	harzburgite	£	45	00	=		v.		Primary forest	6.03	106	1165	. 39	1075	ш
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"'Gravel: Many (M), Few (F), Rare or none (R)
"'Topography: Steep (S), Moderate (M), Flat (F)

Orain size: Sandy (S), Clayey (C) *Humidity: Dry (D), Wet (W)

List of sample for stream sediment geochemical survey in Labuk area

	Color	တ်တ်တ် ထိုထိတ် ထိုထိုက်တို့သည်
	Size	20000000000000000000000000000000000000
	Flow	68.0000000
	Width (m)	1.0 2.5 1.0 1.0 1.0 25.0
	Order	
	Geol. Unit	25555555555 25555555555555555555555555
	Geology	skale s.s./sh. s.s./sh. siltstone siltstone
্থ	Name of Stream	S. Wangkanga S. Mangkanga S. Liwego S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod
Grid: LCs	Topographic Map Sheet	Iongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod
Lakuk	Sample No.	10501 10503 10504 10505 10505 10505 10506
Area: Lakuk	S &	64 8 0 5 1 5 E

Pinangah S. Welikop —	Ser. Sample No. No.	μ.	opographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Geol. Order Width Unit (m)	Flow	Size	Flow Size Color
Pinangan S. Mellikop	14 [Cu0] 15 [Cu02	11. 11.	22	S. Welikop S. Melikop	11	KPSp KPSp	2.2	3.0	ოო	60 63	L 33.

 rea:	res: Labuk	Grid: LOv	8							:
% %	Sample No.	Topographic Map Sheet	Name of Stream	Geology	Geol. Unit	Order	Ficth (m)	Flow Size	Size	Color
128	LCv01 LCv03 LCv03 LCv03	Pinangah Pinangah Pinangah Pinangah	S. Melikop S. Melikop S. Melikop S. Melikop	sandstone s.s./sh. sandstone s.s./sh.	वास वास वास	27.7	8.0 2.0 1.0 1.0	ოოოო	722-	ப்ப் ப் வேவ்வேவ்

*1: nome(0), puddle(1), slow(2), moderate(3), fust(4)
42: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

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Page 2	Color	വ് പ്തിക്തിയ്യിയിൽതിൽ	ស្នាស់ឃុំជាក្រុង ក្នុងស្នាស់ស្នាស់ ថ្ង ស សុស្	പപപക്ക
	Size	***************************************	нининичини попопопони	ннынн
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. :	Width (m)		4144114111 104414444 4000000000000000000	12828
·	Order	HHH0400H0H	000000000	44000
	Geol. Unit	ក្នុក្ខភ្នំក្នុក្ខភ្នំក្នុក្ខភ្នំ ក្នុក្ខភ្នំក្នុក្ខភ្នំក្នុក្ខភិត្តិ	ç ç 5 ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç	25 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Geology	s. s. /sh	s.s./shale ssandstone ssandstone ss.s./shale ssandstone ss.s./shale	beselt beselt beselt
	Name of Stream	S. Tongod	S. Tongod	S. Menenan S. Menenan S. Menenan S. Menenan S. Menenan
는 PE3G	Topographic Map Sheet			
	Topo; Map	Tongod Tongod Tongod Tongod Tongod Tongod Tongod	Tongod	Tongod Tongod Tongod Tongod
N N	Sample No.	252222222		35555 66666
rea: Labux	Ser: No.	82222488288	0 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	525.52

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

	Geol. Unit	\$\$\$\$\$\$\$\$\$\$\$\$	\$55.4 \$25.4	P.C. 988 988 988 988 988 988 988 988 988 98	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	725 725 725 725 725 725 725 725 725 725	res (4)
	Geology	sandstone	shale/s. s. shale/s. s. s. shale/s. s. s. /shale sandstone sandstone sandstone sandstone s. s. /shale	111111111	sandstone	sandstone sandstone sandstone sandstone sandstone sandstone sandstone	st(4) rained(3), clay
ا بخ	Name of Stream	S. Murghuago	S. Munglouago S. Munglouago S. Munglouago S. Munglouago S. Usum S. Usum S. Usum S. Usum S. Humglouago S. Munglouago S. Munglouago	S. Munckuago S. Milian S. Milian S. Milian S. Milian S. Milian S. Milian S. Hillan S. Hillan	S. Wilten S. Wilten	S. Milan S. Milan S. Milan S. Milan S. Milan S. Milan S. Milan S. Milan S. Milan	moderate(3), fa ined(2), fine g
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الع	Name of Stream	S. Tongod	S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod	S. Tongod	S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod S. Tongod	S. Munchango S. Liwago S. Liwago S. Liwago S. Liwago S. Liwago S. Liwago S. Liwago	· ·
Grid: LDs	Topographic Map Sheet	Tongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod	Tongod	Tongod	Tongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod Tongod	Tongod	none(0), puddle(1), slow(2), moderate(3) coarse grained(1), medium grained(2), fi
ķ	Sample No.	LDs01 LDs02 LDs04 LDs04 LDs06 LDs06 LDs06 LDs08 LDs08 LDs08 LDs08 LDs08	LDs11 LDs12 LDs13 LDs14 LDs15 LDs16 LDs17 LDs17 LDs18 LDs19 LDs19	Ds21 Ds22 Ds23 Ds24 Ds26 Ds27 Ds28 Ds27 Ds28	De 31 De 33 De 33 De 34 De 35 De 36 De 36 De 36 De 36 De 36	De 41 De 42 De 43 De 44 De 45 De 45 De 48 De 48 De 48 De 48	one (0) , sarse gr
Area: Labuk	Ser.	65 65 65 65 65 65 65 65 65 65 65 65 65 6	65 67 68 69 70 71 71 72 73	27.7.7.7.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	888 889 890 90 90 94	95 96 97 98 100 101 102 103 103	*1: no *2: co
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Page 4 Size Color

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Width (m)

Order

*!: 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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Name of Stream

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*1: none(3). puddle(1), slow(2), moderate(3), fast(4)
*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4) පිළවු පදිදිදි සදිදි දි dolerite

*1: none(0), puddle(1), slow(2), moderate(3), fast(4).

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Order

Geol. Unit

Geology

Name of Stream

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*!: 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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Page 20 Color

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Geology

Name of Stream

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Flow Size (

*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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Page 22

Flow

Order Width

Geol. Unit

Geology

Name of Stream

Topographic Map Sheet

Grid: LGm

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*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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Size Color

Flow

Geol. Unit

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*1: nome(0), puddle(1), slow(2); moderate(3), fast(4)
*2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

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

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*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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Size Color

Flow

Hidth (m)

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*I: none(0), puddle(1); slow(2), woderate(3), fast(4) *2: coarse grained(1), medium grained(2), fine grained(3), clayey(4)

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

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Topographic Map Sheet

Sample No.

*I: none(0), puddle(1), slow(2), moderate(3), fast(4)
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Name of Stream

Topographic Map Sheet

Ser. Sample No. No.

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Sungai Luan Port.

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Grid: LJp

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