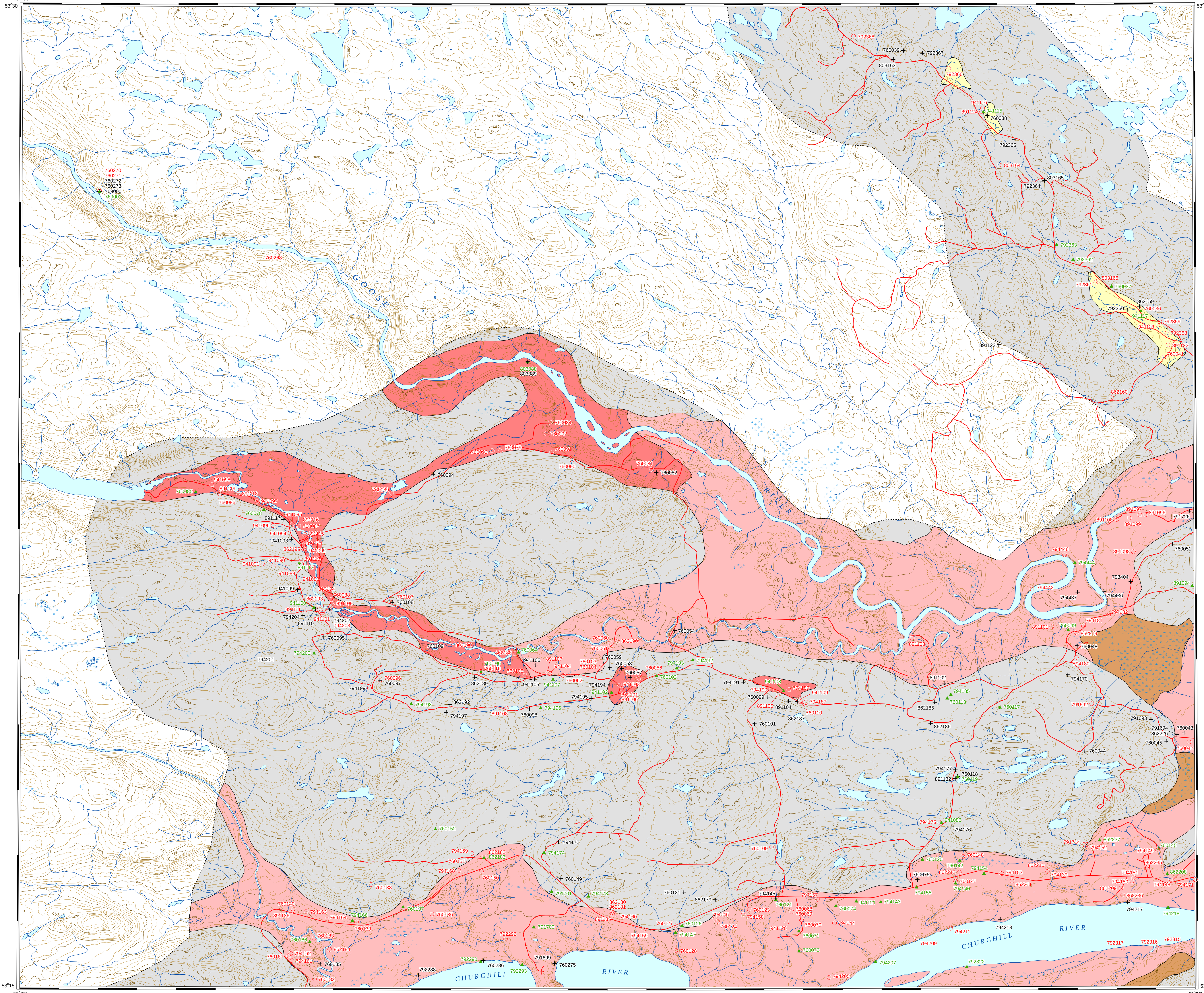
Newfoundland Labrador

Natural Resources



MAP 2011-24

GOOSE RIVER

NEWFOUNDLAND AND LABRADOR

kilometres

GEOLOGICAL SURVEY NEWFOUNDLAND AND LABRADOR 1864

GRANULAR-AGGREGATE RESOURCES OF THE GOOSE RIVER MAP AREA (NTS 13F/07)

MAP 2011-24

LEGEND

Sample types (based on laboratory sieve analysis - see Table 1)

Sample Symbol	Definition
○	Commonly gravel or sand, having silt-clay content < 5 percent. Deposits are commonly graded and stratified
▲	Commonly till, poorly graded and of variable grain size, having a silt-clay content (≥ 5 and ≤ 15 percent) and stone size exceeding allowable limits for most geotechnical purposes (except subgrade uses) without processing (i.e., washing, screening or crushing)
+	Commonly silty till, silt or clay samples, having silt-clay content > 15 percent

Multiple samples taken from the same site in different years are listed in order from oldest to youngest. Multiple samples taken at the same site in the same year are listed in order, from the top of the exposure to bottom.

Note
This is a composite legend for all granular-aggregate resource maps. All aggregate zones, study areas, and sample types shown in the legend may not appear on this map. Aggregate zone classification is based on airphoto interpretation, field investigation and sieve analyses. Areas outside the coloured zones have no known potential for granular materials; however silty tills, rock rubble suitable for fill, and bedrock suitable for aggregate may be present. Classification criteria used on this map do not consider current or conflicting land uses, nor do they guarantee either access to, or the quality of, the material located within these zones.

ZONES OF AGGREGATE POTENTIAL

- Contains granular materials; probability of locating economic deposits is moderate to high
- Contains thin (less than 2 m) or discontinuous granular materials; also includes areas where extent of thicker deposits could not be determined by field investigation; probability of locating economic deposits is moderate to low
- May contain granular materials but deposits are not substantiated by field investigation; probability of locating economic deposits is moderate to low
- Material of granular composition (e.g., sandy tills and colluvium) that generally contains up to 8 percent silt-clay, but could be improved for higher grade uses by washing or screening
- Contains sand-size granular materials; high potential for economic exploitation of sand; low to moderate potential for coarser granular materials
- ><><><>< Eskers: sinuous ridges of granular materials; moderate to high potential for economic exploitation
- Study area within the dashed outline

In addition to this map data, a granular-aggregate database is accessible in the Geoscience Atlas of Newfoundland and Labrador (http://gis.geosurv.gov.nl.ca) for all granular-aggregate maps and sample data. The database provides information on more than 13 000 samples collected from 230, 1:50 000-scale map areas in Newfoundland and Labrador.

This map was originally produced in a series of blueline maps from airphoto interpretation and field work (Environmental Geology Section, 1983). In some map areas additional sample data was collected after the 1983 publication.

GIS / digital cartography by T. Paltanavage.

The location of roads added to topographic map base are approximate.

Elevation in feet above mean sea level. Contour interval 50 feet.

Copies of this map may be obtained from the Geoscience Publications and Information Section, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, Canada, A1B 4J6.

This map is subject to review and revision. Comments to the author concerning errors or omissions are invited.

Base from maps published by Surveys and Mapping Branch, Department of Natural Resources, Ottawa, Canada.

OPEN FILE 13F/07/0079
This map supercedes Map 2010-35, Open File 13F/07/0072

PUBLISHED 2011

Department: http://www.nr.gov.nl.ca/nr/
Geological Survey: http://www.nr.gov.nl.ca/nr/mines/geoscience/
E-mail: pub@gov.nl.ca

References

Environmental Geology Section

1983: 1:50 000-scale aggregate resource maps outlining zones of aggregate potential within a 6-km-wide corridor in Labrador. Newfoundland Department of Mines and Energy, Mineral Development Division, Map 82-224 and Map 82-225, Open File LAB/0607.

Kirby, F.T., Ricketts, R.J. and Vanderveer, D.G.

1983: Inventory of aggregate resources in Newfoundland and Labrador; information report and index maps. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 83-2, 36 pages.

Recommended citation

Ricketts, M.J.

2011: Granular-aggregate resources of the Goose River map area (NTS 13F/07). Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2011-24, Open File 13F/07/0079.

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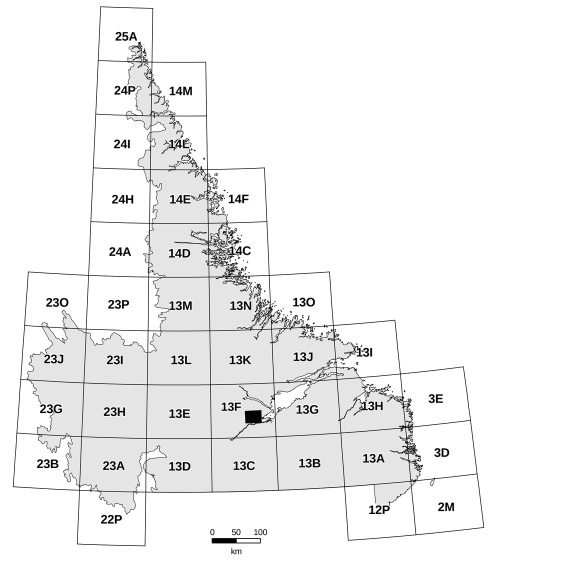

GRAIN-SIZE ANALYSES

Grain-size results from the 63, 32, 16 and 8 mm mesh sieves were obtained at the sample site location by sieving approximately 15 kg of material. A 500 to 1000 gm split of the <8 mm material (sand-silt-clay) was retained for laboratory sieve analysis. Laboratory sieve analyses included the use of seven sieves with mesh openings of 4, 2, 1, 0.5, 0.25, 0.125, 0.062 and the -0.062 mm pan fraction. Samples were wet and/or dry sieved (Kirby *et al.*, 1983) depending on silt-clay content and consolidation of particles.

Table 1: Exposure thickness (Exp), estimated deposit thickness (Dep), petrographic number (PN), grain-size percentages (based on percent retained on the 63 mm down to the -0.062 mm mesh sieves) and gravel (Grv), sand and silt-clay (SL-CL) content of sample material collected in NTS area 13F/07.

				Percent retained through sieve opening (millimetres)												Percent		
Sample	Exp	Dep	PN	63	32	16	8	4	2	1	0.5	0.25	0.125	0.062	<0.062	Grv	Sand	SL-CL
760036				0.0	7.1	14.3	12.1	9.6	0.6	1.9	7.4	17.4	18.4	8.5	2.7	40.7	54.4	4.8
760037				8.5	9.1	10.3	10.3	6.9	6.0	7.0	8.6	12.3	11.0	5.1	4.9	43.4	50.5	6.1
760038				4.6	3.8	6.9	5.3	4.5	1.9	4.5	8.4	13.7	16.3	13.3	16.8	24.0	55.8	20.1
760039				10.5	8.1	4.7	4.1	2.8	2.5	3.4	6.6	12.1	15.0	12.1	18.3	29.4	49.3	21.3
760041				17.2	10.7	9.8	9.3	7.7	3.7	5.1	9.8	11.4	8.0	4.0	3.3	52.8	42.9	4.3
760042							0.0	0.0	0.0	0.1	0.5	24.3	69.3	5.5	0.3	0.0	98.3	1.7
760043							0.0	0.6	0.3	1.7	4.0	6.1	16.1	51.3	19.8	0.5	66.9	32.7
760044				13.2	6.0	4.2	3.0	3.1	3.1	5.7	8.5	12.2	14.2	10.4	16.4	28.7	52.3	19.0
760045							0.0	0.0	0.0	1.3	0.9	9.0	43.1	36.9	8.8	0.0	82.0	18.0
760048							0.0	0.0	0.0	0.0	0.6	2.0	35.4	45.3	16.8	0.0	71.9	28.1
760049							0.0	4.4	2.8	5.0	20.5	21.9	27.5	12.1	5.7	3.3	87.9	8.8
760051				4.4	6.2	5.3	4.4	4.3	2.6	4.2	8.3	15.0	19.5	10.6	15.0	23.7	58.7	17.7
760054							0.0	0.0	0.6	3.5	12.5	18.3	22.9	25.2	16.9	0.0	76.8	23.2
760056							0.0	2.6	1.0	1.3	3.8	37.4	43.9	8.1	1.9	1.9	94.1	3.9
760057							0.0	0.0	0.4	0.9	1.0	6.1	34.1	29.0	28.6	0.0	64.2	35.8
760058							0.0	0.5	0.6	2.6	15.6	22.8	21.5	17.6	18.8	0.4	76.4	23.2
760059							0.0	1.3	2.4	4.7	11.0	20.6	21.3	18.9	19.8	1.0	74.5	24.5
760060							0.0	0.0	0.1	0.5	4.2	49.9	36.8	6.8	1.6	0.0	96.7	3.3
760061				0.0	0.0	0.8	1.6	7.4	7.2	15.9	27.6	26.5	10.6	2.0	0.3	8.0	91.2	0.8
760062							0.0	0.7	0.8	1.7	7.7	37.6	43.4	7.4	0.7	0.5	96.9	2.5
760064							0.0	0.0	0.0	0.3	3.3	22.9	44.9	24.8	3.8	0.0	90.0	10.0
760068							0.0	0.0	0.0	0.0	1.3	47.7	42.2	8.1	0.8	0.0	97.2	2.8
760069							0.0	0.0	0.0	0.0	0.7	32.1	54.0	12.2	1.0	0.0	95.9	4.1
760070							0.0	0.0	0.0	0.0	0.7	42.3	52.4	4.3	0.3	0.0	98.6	1.4
760071							0.0	0.0	0.0	0.0	0.3	21.4	61.4	15.6	1.4	0.0	94.7	5.3
760072							0.0	0.0	0.0	0.1	0.5	13.2	65.6	17.6	2.9	0.0	92.7	7.3
760074							0.0	0.0	0.0	0.0	0.1	9.4	67.5	21.1	2.0	0.0	92.8	7.2
760075							0.0	0.0	0.0	0.0	0.3	38.6	22.4	26.9	11.8	0.0	81.4	18.6
760078							0.0	0.0	0.4	2.5	8.8	19.5	41.8	23.9	3.1	0.0	90.9	9.1
760079							0.0	0.0	1.6	13.0	42.9	30.5	9.5	2.4	0.2	0.0	99.2	0.8
760081							0.0	0.0	0.0	1.2	16.5	60.3	17.9	2.9	1.2	0.0	98.1	1.9
760082							0.0	0.0	0.0	0.2	0.2	3.0	25.2	53.7	17.6	0.0	68.9	31.1
760084							0.0	0.0	0.8	2.1	16.5	57.5	20.3	2.4	0.4	0.0	99.0	1.0
760085				19.8	1.4	2.8	4.1	4.6	3.7	6.2	8.6	12.4	14.7	10.0	11.7	31.6	54.2	14.2
760086				38.6	8.1	11.0	8.1	6.8	10.4	11.0	5.5	0.6	0.0	0.0	0.0	70.7	29.3	0.0
760087				11.0	19.8	13.1	9.3	6.6	6.1	10.9	12.8	7.4	2.2	0.6	0.3	58.1	41.4	0.5
760088				5.4	16.7	14.8	9.3	7.4	6.6	12.4	18.3	6.9	1.6	0.3	0.1	51.9	47.9	0.2
760089				34.6	15.6	12.8	9.0	5.7	4.0	4.6	6.1	4.5	2.1	0.7	0.4	76.2	23.2	0.6
760090				67.5	6.1	7.0	8.8	1.0	1.7	1.3	1.2	1.4	1.5	1.0	1.5	90.2	8.0	1.8
760091							0.0	0.0	0.1	3.5	23.0	44.2	23.2	5.0	1.0	0.0	97.7	2.3
760092				1.1	0.6	2.9	4.6	3.4	3.2	11.2	31.6	32.1	8.6	0.7	0.1	11.7	88.1	0.3
760093				17.4	22.2	10.9	11.3	7.2	6.2	8.4	8.9	4.8	2.0	0.5	0.2	67.2	32.5	0.3
760094				6.4	13.6	3.6	4.5	4.2	2.7	5.2	8.3	12.8	14.2	10.5	13.9	31.3	52.2	16.5
760095				16.6	5.1	1.7	2.9	2.4	3.4	4.5	7.5	11.6	14.3	13.5	16.5	28.1	52.0	19.9
760096							0.0	0.0	0.0	0.5	7.7	48.1	37.1	5.9	0.6	0.0	97.9	2.1
760097							0.0	0.0	0.1	0.3	0.8	4.5	43.2	35.1	16.1	0.0	75.1	24.9
760098				9.1	1.7	4.6	4.6	5.0	4.4	5.7	8.9	14.7	16.1	10.1	15.0	23.8	58.7	17.5
760099				3.5	3.5	4.1	2.3	1.9	5.6	8.9	10.6	15.1	16.5	10.5	17.5	14.9	65.0	20.1
760100				9.0	1.9	1.9	2.6	3.1	2.6	4.7	11.5	27.3	26.2	7.8	1.4	17.7	78.9	3.3
760101				10.4	4.9	3.7	4.9	4.4	3.0	4.8	7.7	13.2	15.0	11.2	16.9	27.0	53.2	19.7
760102				17.7	6.2	3.8	3.8	2.9	5.0	7.4	9.0	12.3	12.5	7.4	12.0	33.7	52.5	13.8
760103				9.7	6.9	9.7	11.7	9.4	4.3	7.4	12.0	17.7	9.1	1.6	0.5	45.0	54.1	0.9
760104							0.0	0.0	0.0	3.4	18.6	45.8	24.5	5.1	2.6	0.0	96.1	3.9
760105				25.6	21.1	11.1	8.3	4.1	2.3	2.9	6.9	10.2	5.6	1.5	0.5	69.2	30.0	0.8
760106				9.2	7.7	6.3	6.3	6.1	7.1	7.6	9.7	13.0	12.4	6.7	7.8	34.2	56.3	9.5
760107							0.0	3.6	3.1	14.0	36.0	30.3	11.2	1.5	0.2	2.7	96.6	0.6
760108							0.0	0.0	0.0	0.3	0.7	3.6	22.4	40.2	32.9	0.0	57.1	42.9
760109							0.0	0.0	0.0	1.1	1.6	2.3	34.3	41.0	19.8	0.0	69.9	30.1
760110							0.0	1.4	4.3	28.2	43.9	19.6	2.4	0.2	0.0	1.1	98.9	0.1
760113				28.1	12.6	9.0	5.0	4.4	3.6	5.1	6.3	7.7	7.4	4.7	6.0	58.1	34.8	7.1
760116				32.1	17.9	10.0	8.6	9.5	5.8	5.4	4.9	3.8	1.4	0.2	0.3	75.7	24.0	0.3
760117				3.3	3.8	4.3	4.8	5.6	3.3	6.3	10.6	17.1	17.4	11.2	12.3	20.5	64.5	15.1
760118				17.2	5.5	3.1	3.7	2.7	2.3	4.7	7.8	12.8	14.4	8.2	17.7	31.5	48.7	19.8
760119				6.1	9.1	3.6	4.8	4.1	3.8	6.8	13.5	18.1	12.3	7.3	10.5	26.7	61.0	12.3
760120				12.6	6.6	6.6	6.0	4.8	3.3	6.0	11.9	15.9	10.8	6.4	9.2	35.4	53.8	10.8
760121							0.0	0.0	0.0	0.0	0.9	18.7	52.5	23.2	4.8	0.0	89.4	10.6
760123							0.0	0.0	0.0	0.0	0.8	38.6	54.3	6.1	0.2	0.0	98.3	1.7
760124							0.0	0.0	0.0	0.0	0.3	20.6	68.1	9.9	1.0	0.0	96.6	3.4
760126							0.0	0.0	0.0	0.0	0.3	0.9	68.6	25.9	4.3	0.0	89.2	10.8
760127							0.0	0.0	0.0	0.0	0.2	8.8	76.5	13.6	0.9	0.0	95.7	4.3
760128							0.0	0.0	0.0	0.4	9.0	59.0	27.6	3.8	0.3	0.0	98.8	1.2
760131				18.8	2.1	2.6	2.1	2.4	1.5	3.2	6.9	14.4	17.7	13.7	14.7	27.3	54.6	18.1
760136							0.0	0.0	0.0	0.0	0.3	26.7	63.1	9.4	0.5	0.0	97.1	2.9
760137							0.0	0.0	0.0	0.2	0.4	19.1	60.7	15.0	4.6	0.0	91.6	8.4
760138							0.0	0.0	0.0	0.2	6.0	64.8	24.9	3.7	0.4	0.0	98.6	1.4
760139				4.2	7.3	17.2	17.2	12.8	8.1	9.1	12.7	9.0	2.1	0.2	0.1	55.6	44.3	0.1
760140				10.0	7.3	19.3	16.7	11.2	7.0	7.4	12.3	8.3	0.1	0.2	0.1	61.7	38.2	0.1
760141							0.0	0.0	0.0	0.2	8.8	54.4	33.8	2.8	0.0	0.0	99.3	0.7
760142							0.0	0.0	0.0	0.0	1.0	11.8	66.3	18.6	2.2	0.0	93.1	6.9
760145							0.0	0.0	0.0	0.2	0.6	10.1	61.3	25.0	2.8	0.0	91.0	9.0
760148				6.8	7.4	10.1	9.5	6.2	5.7	11.9	16.3	14.8	6.1	1.9	3.4	38.4	57.7	3.9
760149				1.9	2.8	1.9	2.3	3.4	1.4	5.7	9.7	17.7	22.9	16.6	13.7	11.4	70.7	17.9
760150				26.1	10.6	4.6	5.0	3.8	2.4	5.8	8.2	11.4	11.6	7.7	2.8	49.1	46.1	4.7
760151				24.6	6.9	5.1	4.7	5.4	10.5	8.8	11.3	16.4	4.9	0.9	0.5	45.4	53.9	0.7
760152				15.6	9.7	3.4	4.2	4.1	3.0	5.3	8.7	13.4	12.3	6.7	13.7	36.0	48.6	15.4
760182							0.0	0.0	0.0	0.1	1.6	87.4	10.5	0.3	0.1	0.0	99.8	0.2
760183							0.0	0.0	0.0	0.0	3.1	73.0	22.4	1.3	0.1	0.0	99.5	0.5
760185							0.0	0.0	0.9	1.7	3.4	11.5	37.6	29.9	14.9	0.0	77.6	22.4
760186							0.0	0.0	0.0	0.1	1.6	20.7	48.1	23.3	6.3	0.0	87.9	12.1
760187				0.0	2.2	7.2	9.4	8.5	5.2	9.1	17.3	24.4	12.7	3.3	0.7	25.2	73.3	1.5
760236							0.0	0.0	0.0	2.9	10.2	13.2	31.6	33.0	9.1	0.0	82.6	17.4
760268							0.0	17.7	15.4	28.0	29.0	8.0	1.3	0.3	0.3	13.3	86.3	0.3
760270							0.0	0.2	1.5	1.4	26.4	48.3	19.3	2.7	0.3	0.1	98.9	0.9
760271							0.0	0.0	0.0	0.2	5.6	71.4	21.2	1.2	0.4	0.0	99.3	0.7
760272							0.0	0.0	0.2	1.0	3.0	10.9	38.4	30.6	15.8	0.0	76.6	23.4
760273							0.0	0.0	0.0	0.4	12.9	23.7	23.3	29.4	10.3	0.0	82.4	17.6
760275							0.0	0.0	0.0	1.4	3.6	11.5	40.2	31.3	12.1	0.0	80.1	19.9
769000							0.0	0.0	0.2	1.0	3.0	10.9	38.4	30.6	15.8	0.0	76.6	23.4
769001							0.0	0.0	0.0	0.0	0.3	5.5	73.5	19.3	1.5	0.0	93.7	6.3
791692	1.2	4.0	267	5.5	11.6	15.2	14.6	13.0	12.6	9.4	6.9	5.7	3.4	1.0	1.2	56.7	41.9	1.4
791693	2.6	5.0	260	6.2	2.3	4.6	7.7	5.2	6.2	7.4	10.4	13.4	12.6	8.0	16.0	24.7	57.3	18.0
791694	4.3	15.0					0.0	0.0	2.7	2.4	1.8	1.4	21.5	48.0	22.2	0.0	65.8	34.2
791699	0.9	15.0					0.0	0.0	0.2	0.1	0.3	3.9	34.1	48.8	12.6	0.0	75.2	24.8
791700	0.7	15.0					0.0	0.0	0.0	0.0	0.0	0.4	56.4	38.3	4.9	0.0	85.5	14.5
791701	3.8	20.0					0.0	0.0	0.0	0.1	3.8	28.7	40.3	25.0	2.1	0.0	91.7	8.3
791714	1.2	8.0	361	6.5	23.9	21.7	10.9	3.8	4.8	5.1	6.3	8.8	4.9	1.6	1.6	65.9	32.1	2.0
791726	4.2	4.2					0.0	0.0	0.0	0.1	1.4	32.7	34.7	21.2	9.9	0.0	84.7	15.3
792288	18.0	18.0					0.0	0.0	0.0	9.3	3.6	3.0	30.5	43.8	9.9	0.0	79.2	20.8
792290	33.0	18.0					0.0	0.0	0.0	0.0	0.2	1.2	67.4	28.2	3.0	0.0	89.9	10.1
792292	30.0	30.0					0.0	0.0	0.0	0.2	3.2	60.7	32.7	2.2	0.9	0.0	98.5	1.5
792293	40.0	40.0					0.0	0.0	0.2	0.3	0.3	1.8	58.1	34.5	4.8	0.0	86.6	13.4
792315	1.0	5.0					0.0	0.0	0.4	14.6	49.8	28.6	5.9	0.5	0.1	0.0	99.8	0.3
792316	7.0	10.0					0.0	0.0	0.0	0.9	51.7	46.4	0.8	0.0	0.0	0.0	100.0	0.0
792317	14.0	11.0					0.0	0.0	0.0	0.0	0.2	30.4	56.1	11.5	1.8	0.0	95.3	4.7
792322	3.0	3.0					0.0	0.0	0.1	1.6	23.3	31.5	19.4	18.1	6.1	0.0	89.4	10.6
792358	2.0	1.4		3.1	10.0	11.9	12.5	17.3	15.6	13.5	9.3	4.4	1.4	0.5	0.4	50.5	48.9	0.6
792359	2.0	2.0					0.0	0.9	1.1	8.9	46.0	35.6	7.1	0.4	0.1	0.7	99.1	0.2
792360	1.7	15.0					0.0	0.0	0.1	0.5	0.8	1.3	29.3	44.1	23.9	0.0	65.1	34.9
792361	0.8	17.0					0.0	2.2	1.9	2.9	7.6	31.8	41.0	10.6	2.1	1.6	93.6	4.7
792362	1.0	15.0					0.0	0.0	0.2	0.5	5.7	34.8	44.5	11.8	2.5	0.0	94.6	5.4
792363	6.0	50.0		10.8	3.8	3.2	5.7	4.6	8.9	11.6	12.7	12.1	11.7	6.4	8.7	26.9	62.9	10.2
792364	1.0	6.0		5.3	8.3	6.0	6.8	2.8	5.6	6.0	8.6	12.5	13.4	9.6	15.1	28.4	54.1	17.5
792365	1.0	12.0		0.0	8.2	4.4	5.7	4.4	5.3	6.7	9.3	15.0	15.2	9.5	16.3	21.6	59.7	18.7
792366	1.0	5.0					0.0	10.0	14.7	16.6	26.7	26.6	4.3	0.7	0.3	7.5	92.0	0.5
792367	5.0	2.0		0.0	13.1	6.3	5.0	1.7	5.2	5.2	9.0	14.4	16.7	11.0	12.4	25.6	59.2	15.1
792368	6.0	3.0		0.0	7.1	8.2	0.0	20.1	4.5	4.6	6.4	9.9	12.5	10.2	16.6	30.4	50.5	19.1
793404	2.0	15.0					0.0	0.0	0.1	0.5	4.6	18.5	29.1	33.4	13.9	0.0	77.8	22.2
794139	25.0	35.0					0.0	0.0	0.0	0.1	0.5	70.7	25.8	2.6	0.3	0.0	99.1	0.9
794140	4.0	50.0					0.0	0.0	0.0	0.0	0.0	0.3	67.8	29.5	2.4	0.0	90.2	9.8
794143	1.0	30.0					0.0	0.0	0.0	0.0	0.2	36.4	49.5	10.6	3.2	0.0	94.1	5.9
794144	3.0	20.0					0.0	0.0	0.0	0.9	4.5	38.9	43.8	10.3	1.5	0.0	95.9	4.1
794145	5.0	10.0					0.0	0.0	0.0	0.0	0.1	13.4	30.3	9.2	47.1	0.0	50.6	49.4
794146	2.0	10.0					0.0	0.0	0.0	0.0	0.1	31.1	61.0	7.2	0.6	0.0	97.6	2.4
794147	4.0	20.0					0.0	0.0	0.0	0.0	0.0	9.9	76.9	10.6	2.6	0.0	94.7	5.3
794148	2.0	30.0					0.0	0.0	0.0	0.6	4.7	44.5	43.2	6.0	1.0	0.0	97.5	2.5
794149	4.0	20.0					0.0	0.0	0.0	0.0	0.0	40.4	45.7	12.4	1.5	0.0	95.4	4.6
794150	3.0	30.0					0.0	0.0	0.0	0.4	2.0	51.0	38.2	7.2	1.2	0.0	97.0	3.0
794151	3.0	50.0					0.0	0.0	0.0	0.0	0.4	40.3	49.3	9.4	0.5	0.0	97.1	2.9
794152	2.0	40.0					0.0	0.0	0.0	0.5	4.6	62.1	24.5	6.4	1.8	0.0	96.6	3.4
794153	2.0	40.0					0.0	0.0	0.0	0.4	7.2	65.8	20.4	5.0	1.2	0.0	97.6	2.4
794154	1.0	50.0					0.0	0.0	0.0	0.0	0.2	17.1	61.2	19.3	2.2	0.0	93.0	7.0
794155	5.0	40.0					0.0	0.0	0.0	0.0	0.5	37.7	35.0	21.8	5.0	0.0	89.5	10.5
794157	3.0	50.0					0.0	0.0	0.0	0.0	0.1	57.6	32.9	8.5	0.9	0.0	97.0	3.0

				Percent retained through sieve opening (millimetres)												Percent		
Sample	Exp	Dep	PN	63	32	16	8	4	2	1	0.5	0.25	0.125	0.062	<0.062	Grv	Sand	SL-CL
794158	6.0	40.0					0.0	0.0	0.0	0.0	0.1	45.6	47.0	6.3	1.0	0.0	97.4	2.6
794159	3.0	50.0					0.0	0.0	0.0	0.0	0.0	42.8	51.6	5.1	0.5	0.0	98.3	1.7
794160	2.0	25.0					0.0	2.9	4.4	7.3	21.4	41.1	18.4	3.9	0.7	2.2	96.2	1.7
794161	10.0	40.0					0.0	0.0	0.3	0.4	0.5	24.8	61.8	10.0	2.1	0.0	95.4	4.6
794162	6.0	40.0					0.0	0.0	0.1	0.2	15.4	60.8	19.4	2.9	1.1	0.0	98.2	1.8
794163	2.0	20.0	100	0.0	10.6	13.0	17.9	4.7	5.8	7.9	14.1	16.6	7.3	1.5	0.7	45.0	54.0	1.0
794164	6.0	6.0					0.0	1.3	1.7	5.2	34.3	41.7	13.3	2.2	0.2	1.0	98.2	0.8
794166	4.0	20.0	100	8.8	4.7	6.8	6.1	2.9	5.9	12.9	19.9	10.9	8.1	7.7	5.4	28.5	64.1	7.3
794168	1.0	20.0	150	6.3	17.0	12.5	14.3	8.9	10.6	7.0	9.9	8.1	3.7	1.3	0.5	56.7	42.5	0.8
794169	1.0	30.0	250	0.0	14.2	16.4	17.9	12.5	15.5	11.9	4.6	2.7	2.1	1.1	1.1	57.9	40.7	1.4
794170	1.0	15.0	150	0.0	8.8	4.4	5.1	3.9	3.4	4.9	10.8	15.6	16.5	10.7	16.0	21.2	60.1	18.7
794171	1.0	10.0					0.0	0.0	0.0	0.3	4.8	40.7	45.7	7.0	1.4	0.0	96.8	3.2
794172	5.0	20.0	250	4.6	7.6	4.6	14.5	2.7	2.9	3.3	6.3	11.5	14.1	10.9	16.9	33.4	47.0	19.7
794173	2.0	20.0	250	0.0	5.3	2.3	4.5	3.0	5.5	12.7	18.1	16.2	14.1	8.2	10.1	14.4	73.5	12.2
794174	2.0	20.0	100	0.0	7.9	3.6	12.9	3.2	6.5	7.5	10.6	14.5	13.9	8.6	10.8	26.7	60.4	13.0
794175	1.0	10.0	300	11.1	7.6	9.7	9.7	5.3	8.4	12.6	21.1	10.3	2.0	0.8	1.3	42.2	56.3	1.5
794176	1.0	10.0	250	0.0	16.9	3.7	3.7	1.8	3.4	5.4	9.5	15.7	15.3	9.7	15.0	25.6	57.0	17.4
794177	1.0	40.0	350	0.0	7.0	3.8	6.3	4.2	5.1	5.4	9.0	14.5	16.4	11.2	17.1	20.3	59.8	19.9
794180	5.0	20.0					0.0	1.3	1.4	3.9	21.8	55.7	14.4	1.4	0.1	0.9	98.6	0.4
794181	3.0	20.0					0.0	0.3	2.1	13.3	41.1	34.9	7.4	0.7	0.1	0.2	99.4	0.3
794182	1.0	20.0					0.0	1.8	3.1	13.7	42.4	19.5	11.4	5.4	2.8	1.3	94.6	4.1
794185	1.0	15.0	150	0.0	10.7	12.4	9.1	5.8	4.1	4.8	8.0	12.3	13.5	9.2	10.1	36.6	51.0	12.4
794187	1.0	20.0	150	0.0	0.0	3.4	3.4	4.1	9.5	13.7	23.8	26.2	12.3	2.3	1.2	10.0	88.3	1.7
794189	2.0	20.0	150	17.1	22.6	11.0	4.8	1.5	1.6	2.7	5.4	12.3	13.0	5.1	2.9	56.6	39.2	4.2
794190	1.0	20.0	125	7.7	10.0	7.3	46.3	2.0	2.9	4.5	9.0	8.2	1.7	0.2	0.1	72.9	27.0	0.1
794191	2.0	20.0	120	0.0	4.9	2.4	6.5	2.5	5.3	8.4	11.5	14.0	14.7	11.0	18.8	15.7	62.8	21.5
794192	5.0	15.0	100	9.6	13.2	7.4	8.8	2.2	4.4	5.6	7.1	12.0	12.9	8.2	8.6	40.6	48.7	10.7
794193	4.0	15.0	125	0.0	3.7	3.7	4.7	1.7	4.0	6.8	11.9	21.5	20.7	10.4	10.8	13.5	73.1	13.4
794194	2.0	20.0					0.0	0.0	0.2	0.2	0.4	1.3	9.7	39.7	48.6	0.0	41.5	58.5
794195	2.0	30.0					0.0	3.6	3.8	5.7	9.0	21.4	23.3	16.4	16.9	2.7	76.4	20.9
794196	1.0	30.0	250	7.6	11.4	9.8	3.8	4.7	4.6	5.5	8.1	11.9	12.9	8.6	11.1	36.1	50.7	13.2
794197	1.0	20.0	0				0.0	4.9	5.1	7.3	9.8	18.8	20.4	13.9	19.7	3.7	73.1	23.2
794198	1.0	20.0					0.0	11.2	8.3	10.2	15.3	18.1	17.6	11.3	8.1	8.4	80.7	10.9
794199	3.0	30.0					0.0	0.2	0.5	2.7	32.1	49.6	12.7	1.7	0.5	0.2	98.9	1.0
794200	1.0	30.0	300	0.0	7.0	7.8	16.5	8.7	8.9	8.0	8.0	10.0	10.8	7.8	6.5	37.8	53.8	8.4
794201	4.0	40.0					0.0	4.0	3.9	4.8	9.3	18.6	20.7	15.2	23.3	3.0	69.8	27.1
794202	3.8	0.5					0.0	0.0	0.8	1.1	1.8	4.7	19.6	38.0	34.0	0.0	56.5	43.5
794203	3.8	5.0	125	14.1	14.1	16.4	14.1	3.9	4.6	6.2	11.7	9.4	3.8	1.0	0.8	61.6	37.4	1.0
794204	3.0	60.0					0.0	6.8	1.7	1.6	3.0	4.4	24.2	34.6	23.6	5.1	62.6	32.3
794205	35.0	5.0					0.0	0.0	0.4	6.9	54.1	33.9	1.8	2.5	0.3	0.0	99.1	0.9
794207	40.0	15.0					0.0	0.0	0.0	0.0	0.1	4.0	67.6	22.2	6.2	0.0	88.3	11.7
794209	30.0	10.0					0.0	0.0	0.4	0.3	8.9	46.6	39.1	4.7	0.0	0.0	98.8	1.2
794211	40.0	50.0					0.0	0.0	0.3	1.7	36.7	57.3	4.0	0.0	0.1	0.0	99.9	0.1
794213	12.0	4.0					0.0	0.0	0.0	0.1	0.3	0.8	17.7	55.4	25.7	0.0	60.5	39.5
794217	12.0	40.0					0.0	0.0	0.2	0.3	1.3	5.4	43.3	40.1	9.5	0.0	80.5	19.5
794218	4.0	20.0					0.0	0.0	0.0	0.0	4.4	46.1	37.9	8.6	3.0	0.0	94.9	5.1
794436	3.0	15.0					0.0	0.0	0.1	0.3	0.7	11.6	38.0	28.2	21.1	0.0	71.8	28.2
794437	12.0	2.0					0.0	0.0	0.4	1.0	1.5	2.9	9.7	32.0	52.5	0.0	39.5	60.5
794442	12.0	2.0					0.0	0.0	0.0	0.2	2.4	53.6	37.9	5.2	0.7	0.0	98.0	2.0
794444	12.0	6.0					0.0	2.0	1.1	2.1	10.9	33.1	34.5	11.6	4.6	1.5	91.0	7.5
794446	3.0	10.0					10.0	6.8	6.2	9.9	18.9	25.4	16.5	5.0	1.3	15.1	82.3	2.6
803088	5.0	6.0					3.3	7.7	4.7	3.7	6.2	23.9	33.3	13.4	3.7	9.0	83.9	7.1
803089	5.0	6.0					0.0	12.4	5.6	7.4	11.0	16.3	21.0	12.1	14.1	9.3	73.5	17.1
803090	6.0	15.0					42.5	8.2	7.1	12.4	14.7	9.3	3.9	1.3	0.7	48.6	50.3	1.0
803163	4.0	6.0	123				0.0	6.8	3.3	4.7	8.6	15.2	19.6	16.6	25.3	5.1	65.5	29.4
803164	1.5	5.0					0.0	4.8	7.5	19.3	39.4	21.5	4.2	2.1	1.1	3.6	94.7	1.7
803165							0.0	10.8	9.5	8.3	12.8	19.5	16.1	9.4	13.6	8.1	76.0	16.0
803166	10.0	15.0					0.0	5.9	13.7	21.8	28.7	20.7	5.9	2.1	1.3	4.4	93.8	1.8
862159	0.6	10.0					0.0	0.0	0.1	0.3	0.5	5.0	40.5	40.9	12.7	0.0	77.1	22.9
862160	0.5	10.0					2.0	7.4	5.6	6.6	16.7	33.5	24.6	3.3	0.2	7.6	91.3	1.1
862179	0.8	0.6					5.6	5.3	5.9	5.8	9.4	14.8	14.2	13.5	25.6	9.6	61.5	28.9
862180	2.4	10.0	130	0.0	7.9	10.8	10.1	16.7	8.3	8.4	14.4	20.0	2.9	0.4	0.2	41.3	58.4	0.3
862181	2.4	10.0					0.0	0.3	0.1	0.2	3.4	39.0	44.0	12.2	0.8	0.2	95.9	3.9
862182	2.8	2.1					2.3	3.2	7.0	13.7	33.2	34.3	6.1	0.3	0.0	4.6	95.3	0.1
862183	2.8	10.0	220	15.8	5.9	10.5	5.9	2.9	5.9	6.6	8.6	10.9	10.7	6.8	9.5	40.4	48.5	11.1
862184	4.2	10.0	130	6.2	14.8	9.3	12.3	9.3	8.5	8.1	13.0	13.7	4.4	0.5	0.1	49.5	50.3	0.2
862185	1.8	10.0	220	3.5	9.2	6.4	3.5	2.9	3.1	4.4	7.6	13.5	14.5	12.0	19.2	24.9	52.9	22.2
862186	1.9	15.0	300	11.2	10.7	3.6	4.1	2.7	4.3	5.5	7.0	10.7	12.7	11.1	16.4	31.6	49.2	19.2
862187	2.6	12.0	200	0.0	5.4	4.7	8.8	2.8	4.6	4.0	6.0	11.3	17.9	13.9	20.6	21.0	54.9	24.1
862188	6.5	15.0					0.0	2.0	3.9	11.1	43.7	36.9	2.4	0.0	0.0	1.5	98.5	0.0
862189	8.5	10.0	200	6.5	5.2	5.8	6.5	4.4	5.1	6.0	8.2	13.3	14.4	10.6	14.1	27.2	56.1	16.8
862190	4.0	15.0					1.4	1.7	2.2	2.9	14.4	39.3	33.6	4.4	0.2	2.6	96.1	1.3
862191	3.0	20.0	125	21.7	16.3	9.6	7.8	7.5	8.1	8.6	11.2	6.9	1.6	0.5	0.2	61.0	38.6	0.3
862192	4.7	20.0	280	0.0	11.1	3.3	4.6	3.5	3.8	5.0	8.6	14.0	16.8	12.5	16.8	21.6	58.5	20.0
862193	10.0	10.0	130	0.0	17.0	19.3	14.8	10.6	6.0	9.6	13.2	6.9	2.0	0.4	0.1	59.1	40.8	0.2
862194	3.8	10.0	160	25.8	23.9	10.1	8.8	6.6	4.5	4.1	7.1	6.6	2.2	0.3	0.1	73.5	26.4	0.1
862195	4.0	10.0	125	15.4	15.4	11.7	8.0	5.8	6.5	7.0	10.1	11.6	5.9	1.8	0.8	55.0	43.8	1.2
862208	10.0	25.0					0.0	0.0	0.0	0.1	0.2	20.3	52.7	22.2	4.5	0.0	89.9	10.1
862209	7.8	25.0					0.0	0.0	0.1	0.1	2.8	66.9	27.9	2.1	0.1	0.0	99.4	0.6
862210	15.0	25.0					0.0	0.0	0.5	7.4	48.5	39.6	3.8	0.2	0.0	0.0	99.9	0.1
862211	5.3	25.0					0.0	0.0	0.0	0.0	0.1	63.3	35.6	0.9	0.1	0.0	99.7	0.3
862212	9.0	25.0					0.0	0.0	0.0	0.0	1.6	56.4	35.2	6.6	0.2	0.0	98.2	1.8
862219	2.8	25.0					0.0	1.0	1.5	5.9	51.1	36.3	4.0	0.1	0.0	0.8	99.2	0.1
862226	3.5	25.0					0.0	0.0	0.0	0.1	0.2	1.6	42.5	45.8	9.9	0.0	78.6	21.4
862235	4.1	25.0					0.0	0.0	0.0	0.7	10.6	67.2	19.9	1.5	0.1	0.0	99.6	0.4
862236	3.7	20.0					0.0	1.7	6.5	14.5	38.5	22.7	14.3	1.6	0.1	1.3	98.2	0.5
862237	3.8	25.0					0.0	0.0	0.0	0.1	0.2	12.7	60.0	25.5	1.6	0.0	92.0	8.0
891094	1.9	1.9	100	0.0	4.8	2.4	4.8	3.2	3.8	5.7	11.7	19.4	20.0	14.4	9.7	14.5	72.2	13.3
891096	2.1	8.0	154	0.0	0.0	4.7	13.5	6.7	7.2	11.7	26.8	23.2	4.1	1.3	0.8	23.2	75.7	1.1
891097	3.0	8.0	100	0.0	1.0	18.0	22.7	10.7	6.9	5.1	10.3	13.4	5.5	3.9	2.5	49.7	46.9	3.5
891098	2.3	8.0	153	0.0	0.0	10.1	18.9	12.5	12.5	10.5	14.1	14.6	5.5	0.4	0.9	38.4	60.6	1.0
891099	1.7	8.0	118	0.0	0.0	23.0	29.4	11.0	10.3	7.3	7.5	8.3	2.9	0.3	0.1	60.7	39.2	0.1
891100	2.4	8.0	100	0.0	0.0	1.9	17.9	23.7	19.1	14.6	10.6	9.6	2.3	0.3	0.0	37.5	62.4	0.1
891101	1.2	12.0					0.0	0.3	3.5	13.6	68.1	13.9	0.5	0.0	0.1	0.2	99.7	0.1
891102	1.4	5.0					0.0	3.3	3.4	4.9	8.7	15.6	17.1	17.9	29.0	2.5	64.1	33.5
891103	0.4	4.0	100	0.0	14.5	26.8	21.7	11.7	6.5	4.0	8.3	4.4	1.2	0.0	0.9	71.9	27.3	0.9
891104	3.0	3.0					4.2	4.9	7.2	6.7	7.9	13.5	15.1	13.0	27.5	7.9	61.4	30.8
891105	2.3	5.0	100	0.0	20.9	15.8	8.9	5.6	6.1	6.5	13.6	16.7	4.9	0.8	0.2	49.8	49.8	0.4
891106	4.1	10.0	100	12.4	6.2	7.1	15.0	8.9	14.4	14.0	13.5	6.6	1.4	0.3	0.2	47.4	52.4	0.2
891107	0.5	10.0	100	11.7	21.3	9.6	6.6	8.6	8.4	10.1	13.7	7.6	1.9	0.2	0.2	55.7	44.0	0.3
891108	1.5	4.0	100	12.0	19.0	15.8	9.5	8.8	7.9	9.0	10.2	5.3	1.8	0.5	0.3	62.9	36.7	0.4
891109	1.2	8.0	100	29.3	14.7	12.5	9.8	8.9	10.2	7.6	4.1	1.7	0.7	0.3	0.2	73.0	26.7	0.3
891110	2.8	10.0	118	0.0	10.1	6.2	6.2	4.6	5.7	6.6	8.1	11.9	13.8	10.2	16.7	25.9	54.9	19.2
891111	3.2	10.0	100	0.0	4.9	9.2	12.7	13.1	16.3	11.4	9.8	8.6	7.8	3.9	2.4	36.6	60.1	3.4
891112	2.9	10.0	125	1.9	6.3	11.3	12.5	10.8	11.3	8.2	9.6	10.6	7.9	5.0	4.7	40.0	54.0	6.0
891113	3.1	6.0	118	19.1	23.5	12.5	12.1	6.4	7.6	7.5	6.6	3.1	1.1	0.4	0.2	72.0	27.7	0.3
891114	1.9	10.0	100	17.9	22.9	13.6	10.7	11.2	9.8	8.1	3.6	1.3	0.5	0.2	0.2	73.4	26.3	0.3
891115	3.3	7.0	127	28.0	14.3	12.5	8.9	9.3	10.3	7.2	5.3	2.7	1.1	0.1	0.3	70.7	29.0	0.4
891116	4.1	9.0	100	15.8	24.6	12.9	9.9	8.6	9.3	6.6	5.6	4.2	1.7	0.6	0.2	69.6	30.0	0.3
891117	1.6	8.0					0.0	0.9	1.9	6.1	17.1	30.0	17.3	11.6	15.0	0.7	81.4	17.9
891118	2.8	8.0	127	12.0	24.7	16.9	16.9	7.8	6.5	3.4	3.7	4.8	2.5	0.6	0.1	76.4	23.4	0.3
891119	1.8	8.0	130	5.5	18.6	15.9	11.7	9.0	10.1	10.2	11.0	5.9	1.6	0.3	0.2	58.5	41.2	0.3
891122	1.7	7.0	216	2.8	1.4	5.6	12.6	10.8	16.9	13.1	14.5	10.8	5.8	4.3	1.4	30.5	67.0	2.5
891123	8.0	12.0					0.0	9.0	7.7	8.0	9.7	14.5	14.7	12.9	23.5	6.7	66.6	26.7
891124	3.1	6.0	100	4.5	15.2	10.7	13.4	18.2	14.7	11.6	6.8	3.5	1.2	0.2	0.1	57.4	42.5	0.1
891132	7.7	10.0	100	12.5	10.8	5.0	3.3	1.5	3.4	3.4	6.0	10.5	11.5	11.4	20.5	32.8	43.8	23.4
891135	2.2	3.0	139	0.0	7.4	13.2	13.2	12.9	16.4	9.5	9.6	11.5	5.4	0.7	0.2	43.5	56.1	0.4
891136	1.3	4.0	112	8.9	20.3	18.4	15.8	10.9	9.5	4.7	6.7	4.0	0.8	0.1	0.0	71.5	28.5	0.0
941086			220	0.0	0.0	7.5	33.3	11.6	5.9	5.0	7.1	10.0	7.9	4.6	7.1	49.5	42.2	8.3
941088	2.3	8.0	147	9.8	24.2	14.9	10.2	8.8	7.0	7.3	7.4	6.4	3.1	0.7	0.2	65.7	33.9	0.4
941089	2.1	9.0	179	15.3	19.7	13.4	10.8	7.2	9.4	9.3	7.8	4.6	1.6	0.6	0.3	64.6	35.0	0.4
941090	2.2	9.0	187	3.1	17.6	15.7	17.0	6.5	9.2	7.4	6.5	6.8	5.2	2.9	1.9	58.3	39.0	2.7
941091	2.0	8.0	152	8.8	21.4	11.0	11.0	6.0	11.1	13.7	11.1	4.4	1.1	0.3	0.1	56.7	43.1	0.2
941092	6.8	9.0	153	2.8	13.2	7.6	11.1	13.9	17.0	18.3	11.0	3.7	0.9	0.3	0.1	45.2	54.6	0.2
941093	1.4	5.0	0				0.0	0.0	0.1	0.1	0.5	1.5	2.6	22.9	72.3	0.0	21.9	78.1
941094	2.8	5.0	0				3.5	3.2	4.7	4.2	11.6	45.2	24.5	2.8	0.3	6.0	93.1	1.0
941095	2.2	7.0	164	9.1	4.1	11.7	13.7	16.0	21.9	15.1	5.3	2.1	0.7	0.3	0.1	50.6	49.3	0.2
941096	2.4	6.0	163	9.5	25.1	16.2	10.6	7.4	5.5	5.8	8.8	6.9	2.8	1.0	0.5	67.0	32.3	0.8
941097	2.3	8.0	154	5.5	11.6	8.2	11.6	9.5	10.7	10.5	11.1	9.1	7.8	3.4	1.0	44.1	54.1	1.8
941098	2.3	7.0	179	12.2	18.9	14.6	13.4	8.7	9.7	10.1	6.5	3.4	1.5	0.6	0.4	65.7	33.8	0.5
941099	1.9	7.0	237	0.0	0.8	5.0	7.6	3.6	4.4	5.7	9.1	15.3	17.7	12.9	17.9	16.1	62.8	21.1
941100	2.2	8.0	161	4.6	11.8	10.5	10.5	5.5	7.7	7.1	7.3	9.8	9.1	6.5	9.4	41.7	47.3	11.1
941101	1.4	3.0	182	14.5	15.1	10.1	9.4	5.0	6.7	9.7	13.3	8.6	4.2	2.4	1.1	52.8	45.5	1.7
941102	2.6	15.0	0				0.0	0.2	0.5	1.6	9.1	32.1	30.2	19.6	6.7	0.2	88.3	11.6
941103	2.8	15.0	0				5.0	1.7	2.9	7.3	29.9	41.8	10.2	1.0	0.1	6.3	93.3	0.4
941104	3.1	6.0	152	0.0	7.0	5.7	10.8	9.7	12.1	10.1	15.0	17.5	8.0	3.1	1.1	30.7	67.4	1.9
941105	1.5	5.0	215	3.8	9.9	6.1	8.4	2.6	4.6	5.0	8.1	13.1	12.0	9.7	16.7	30.2	50.7	19.1
941106	1.6	8.0	0				0.0	0.0	0.1	0.0	0.2	1.0	3.6	27.5	67.7	0.0	25.4	74.6
941107	2.4	8.0	193	0.0	1.4	5.6	8.4	5.2	7.0	9.2	13.3	18.4	16.5	10.8	4.2	19.3	73.8	6.9
941108	2.5	5.0	191	0.0	6.7	5.0	11.1	3.8	3.1	5.7	11.2	17.5	15.9	8.9	10.9	25.7	61.2	13.1
941109	3.1	5.0	0				0.0	0.1	0.8	1.4	7.3	65.2	22.3	2.7	0.2	0.0	99.1	0.8
941115	3.4	4.0	172	0.0	6.7	3.7	14.7	2.6	3.6	3.9	7.6	15.0	17.5	13.7	11.0	27.1	58.5	14.4
941116	3.8	4.0	0				0.0	4.9	6.1	10.3	22.5	32.7	14.6	6.4	2.6	3.7	92.1	4.2
941117	4.0	9.0	0				0.0	0.0	0.0	0.1	2.7	36.8	37.9	16.1	6.4	0.0	89.6	10.4
941118	3.2	9.0	121	0.0	0.5	2.2	2.2	2.9	4.4	9.2	21.5	35.1	17.0	4.4	0.7	7.0	91.2	1.8
941120		15.0	0				0.0	0.0	0.1	1.4	15.4	49.3	25.5	5.9	2.3	0.0	96.2	3.8
941121		15.0	0				0.0	0.0	0.0	0.1	1.5	38.0	44.4	14.1	1.8	0.0	94.6	5.4