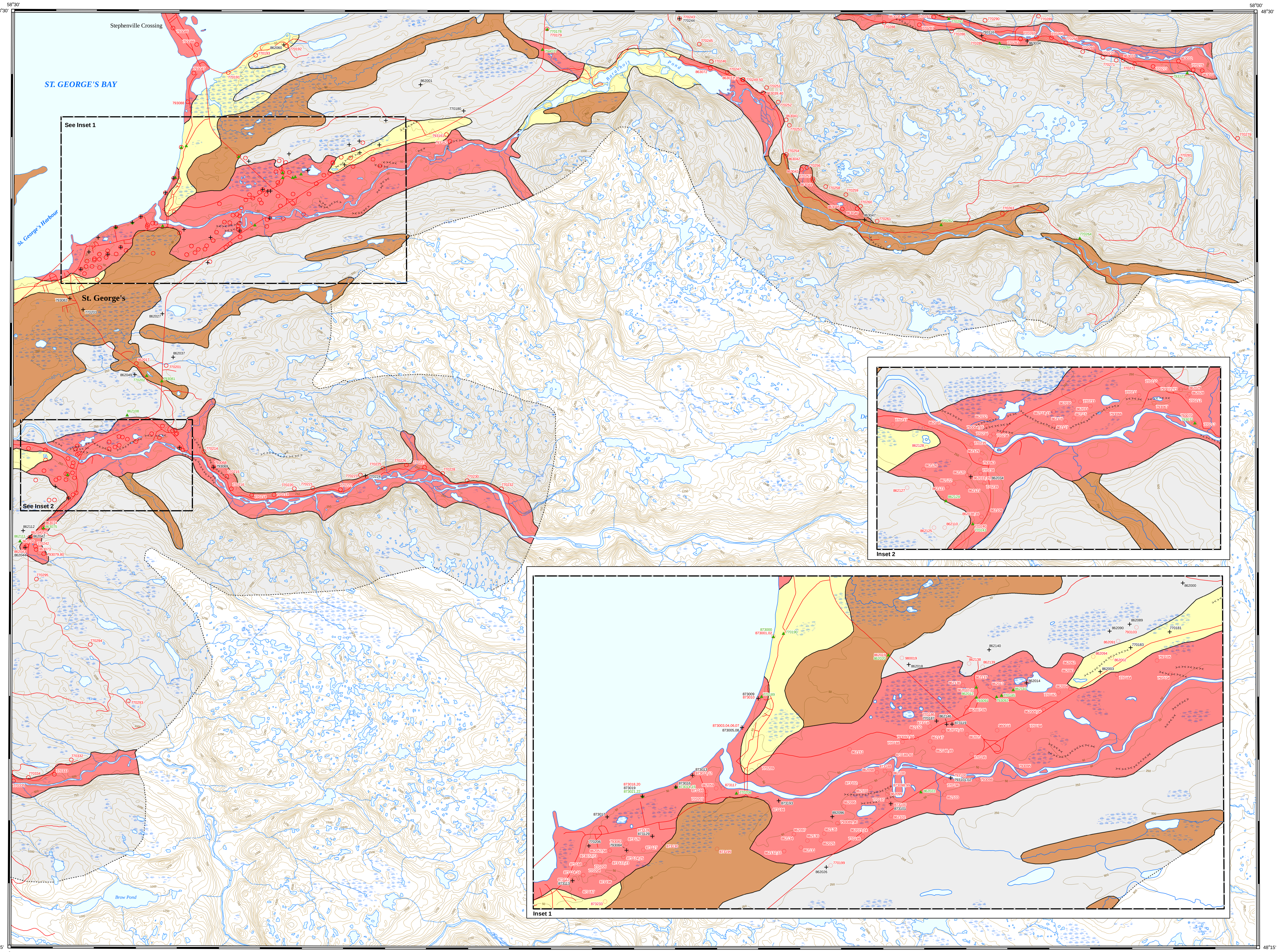

MAP 2008-30

MAIN GUT

NEWFOUNDLAND & LABRADOR

1 0.5 0 1 2 3 4

Kilometers

12B/08

Newfoundland Labrador

GEOLOGICAL SURVEY NEWFOUNDLAND AND LABRADOR 1864

GRANULAR-AGGREGATE RESOURCES OF THE MAIN GUT MAP AREA (NTS 12B/08)

OPEN FILE 012B/08/0546
MAP 2008 - 30

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 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 numbered 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 content, 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 Resource 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; Kirby, F.T., 1982, 1987, and Ricketts, M.J.,1990). In some map areas additional sample data was collected after the publication date.

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

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

Digital Cartography by T.J. Sears, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador.

Copies of this map may be obtained from the Geoscience Publication 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 012B/08/0546
This map supercedes Map 82-159, Open File NFLD/1300.

PUBLISHED 2008

E-mail: pub@gov.nl.ca
Website: http://www.nr.gov.nl.ca/mines&en/geosurvey/

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Recommended citation

Ricketts, M.J.
2008: Granular-aggregate resources of the Main Gut map area (NTS 12B/08). Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Map 2008-30, Open File 012B/08/0546.

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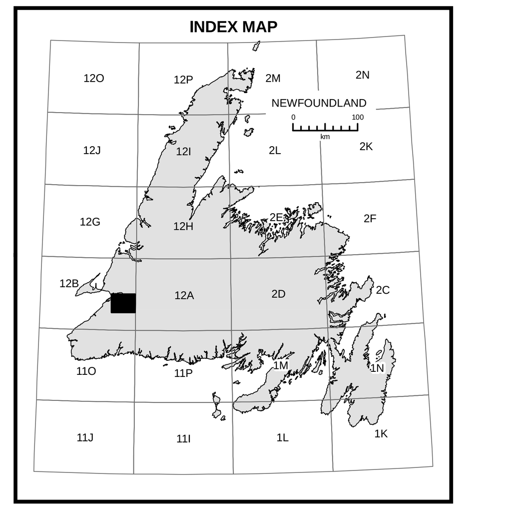
GRAIN-SIZE ANALYSES

Grain-size results from the 63, 32, 16 and 8 mm mesh sieves were obtained at the sample site location by sieving between 10 and 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 12B/08.

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
770178	7.5		0	0.0	10.3	8.7	9.5	14.6	5.0	8.5	8.5	8.8	8.6	6.1	11.5	39.4	47.6	13.0
770179	7.5		0	45.4	13.7	5.1	1.7	19.8	0.3	1.3	2.7	3.6	3.4	1.9	1.1	80.7	17.7	1.5
770180	8.0		0	15.4	2.4	3.6	3.6	8.2	4.8	10.5	10.4	9.5	9.1	7.3	15.4	31.1	51.7	17.2
770181	8.5		0	0.0	13.9	4.9	4.9	5.6	5.0	6.4	8.3	11.0	12.4	9.9	17.6	28.0	51.9	20.1
770182	4.5		0	7.7	26.9	22.6	15.9	7.1	2.9	4.3	6.2	5.0	1.1	0.2	0.1	78.4	21.4	0.2
770183	6.1		0	0.0	0.0	0.0	0.0	4.1	5.6	6.5	14.7	20.7	12.2	8.6	27.6	3.1	67.2	29.7
770184	2.5		0	0.0	21.6	12.0	10.4	4.4	3.6	9.8	25.1	10.3	1.6	0.6	0.6	47.3	51.9	0.7
770185	1.0		0	0.0	4.5	4.5	8.1	13.4	3.3	8.3	12.2	14.1	13.4	8.7	9.4	27.2	61.2	11.6
770186	4.0		0	0.0	3.3	3.3	11.7	12.5	5.5	15.1	21.4	16.7	8.2	1.7	0.5	27.8	71.3	0.9
770187	4.0		0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	0.8	2.3	28.8	53.3	13.3	0.0	73.3	26.7
770188	3.0		0	0.0	0.0	0.0	0.0	18.2	8.9	14.0	29.5	21.8	6.3	0.9	0.5	13.7	85.6	0.7
770189	1.0		0	0.0	0.0	0.0	0.0	0.2	0.6	1.3	4.1	23.6	46.8	19.6	3.8	0.2	91.1	8.7
770190	0.7		0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.5	29.5	50.2	14.6	1.7	0.0	94.6	5.4
770191	1.0		0	7.0	5.2	7.0	11.4	10.5	3.7	6.5	14.3	22.5	8.6	1.9	1.5	38.4	59.6	2.0
770192	0.8		0	0.0	0.0	0.0	0.0	37.7	19.2	8.6	12.5	17.6	3.6	0.4	0.3	28.3	71.3	0.4
770193	0.7		0	0.0	0.0	0.0	0.0	7.9	10.0	18.8	43.8	16.9	1.4	0.4	0.8	5.9	93.2	0.9
770194	9.2		0	13.7	18.3	15.2	13.7	9.6	8.1	9.3	7.2	3.4	1.0	0.4	0.3	68.1	31.6	0.4
770195	6.1		0	0.0	0.0	0.0	0.0	25.3	11.5	17.9	27.5	13.4	3.2	0.8	0.4	19.0	80.4	0.6
770196	5.0		0	0.0	4.0	9.0	25.1	12.6	2.0	3.8	13.6	24.3	5.0	0.4	0.1	47.6	52.2	0.2
770197	7.0		0	0.0	0.0	0.0	0.0	1.9	3.9	7.5	27.1	48.4	10.0	0.9	0.3	1.5	98.1	0.5
770198	3.5		0	18.4	14.7	19.8	11.0	7.5	7.2	8.1	6.7	3.9	1.7	0.7	0.4	69.5	30.0	0.5
770199	4.0		0	30.6	21.2	12.6	10.2	5.1	4.2	4.8	4.4	2.9	1.5	0.9	1.7	78.4	19.7	1.9
770201	3.9		0	37.1	13.0	10.4	10.4	7.0	3.1	3.6	4.1	4.4	2.8	1.6	2.4	76.2	21.0	2.8
770202	4.0		0	3.4	4.2	8.5	11.9	9.7	3.4	5.9	10.1	14.2	11.5	6.1	10.9	35.3	52.3	12.4
770203	2.2		0	17.0	8.5	5.1	6.0	15.6	2.2	3.8	5.5	7.0	8.5	6.7	14.2	48.3	35.8	15.9
770204	10.0		0	0.0	0.0	0.0	0.0	8.4	6.3	13.1	32.0	34.6	4.5	0.7	0.4	6.3	93.2	0.5
770205	11.2		0	3.6	10.8	11.5	10.0	4.6	6.3	13.1	20.6	16.2	2.6	0.5	0.3	39.3	60.3	0.4
770206	14.5		0	0.0	0.0	0.0	0.0	0.8	1.0	1.8	4.3	15.5	39.7	27.0	10.0	0.6	82.7	16.7
770207	2.5		0	2.8	30.0	23.7	16.7	8.1	4.3	5.2	6.3	2.0	0.5	0.3	0.3	79.2	20.4	0.4
770208	6.1		0	0.0	4.6	7.7	5.4	4.4	4.5	3.7	6.4	16.0	24.8	16.4	6.1	21.0	68.8	10.2
770209	2.0		0	0.0	6.2	12.4	17.0	16.1	17.1	16.1	11.0	2.6	0.6	0.4	0.5	47.7	51.7	0.6
770210	2.2		0	3.8	28.4	13.3	16.4	8.0	8.4	8.1	6.4	3.6	1.5	0.7	1.2	68.0	30.6	1.4
770211	2.7		0	0.0	0.0	0.0	0.0	28.7	18.7	20.7	15.9	8.1	4.5	2.2	1.4	21.5	76.6	1.9
770212	11.0		0	2.3	4.0	19.8	24.3	14.7	12.9	10.6	8.0	2.5	0.6	0.3	0.2	61.3	38.5	0.3
770213	6.7		0	10.0	10.0	12.5	15.6	12.4	5.0	6.7	10.4	7.7	4.6	2.8	2.2	57.4	39.6	3.0
770214	10.2		0	14.1	38.7	14.1	15.5	10.8	4.2	1.0	0.7	0.4	0.3	0.2	0.2	90.5	9.3	0.2
770215	1.5		0	0.0	0.0	0.0	0.0	65.4	5.8	11.3	12.7	2.8	0.8	0.5	0.8	49.0	50.1	0.9
770216	5.2		0	4.9	46.1	27.6	10.4	3.3	1.5	1.6	2.0	1.6	0.5	0.2	0.2	91.6	8.2	0.2
770218	5.5		0	0.0	0.0	0.0	0.0	53.2	15.1	12.7	7.5	4.0	3.9	2.3	1.4	39.9	58.1	2.0
770219	2.1		0	0.0	0.0	0.8	2.5	3.2	2.5	7.4	30.3	41.3	10.7	0.9	0.3	5.7	93.8	0.5
770220	6.2		0	15.5	11.8	9.3	9.3	8.2	8.7	13.2	13.6	6.6	2.2	0.9	0.7	52.1	47.0	0.9
770221	1.8		0	0.0	0.0	0.0	0.0	44.2	23.6	13.4	5.1	4.8	4.9	2.5	1.5	33.1	64.8	2.1
770222	8.5		0	8.7	15.6	14.8	7.0	7.1	6.4	7.8	7.8	14.2	9.2	1.0	0.4	51.4	48.0	0.7
770223	2.1		0	0.0	0.0	0.0	0.0	42.1	16.1	11.8	11.9	8.5	5.7	2.7	1.3	31.6	66.4	2.0
770224	2.5		0	0.0	0.0	0.0	0.0	6.0	2.6	1.6	2.0	2.6	24.5	48.9	11.8	4.5	71.5	24.0
770225	3.0		0	1.7	18.9	16.3	13.8	13.4	11.1	13.2	8.2	1.4	0.5	0.4	1.0	60.8	38.1	1.1
770226	4.1		0	0.0	0.0	0.0	0.0	54.0	11.7	7.0	8.7	9.0	5.3	2.6	1.8	40.5	57.0	2.5
770227	5.7		0	0.0	28.3	26.6	15.3	7.3	5.9	9.1	5.7	1.1	0.3	0.2	0.2	75.6	24.2	0.2
770228	4.5		0	0.0	0.8	5.4	4.6	8.1	11.7	22.7	24.3	14.2	5.1	1.8	1.4	16.8	81.4	1.9
770230	5.5		0	44.9	12.7	7.9	9.0	6.8	5.0	4.4	3.0	2.1	1.4	0.9	1.9	79.6	18.3	2.1
770232	6.2		0	0.0	9.6	20.6	22.6	15.8	7.0	11.1	7.5	4.1	1.2	0.3	0.1	64.6	35.2	0.2
770233	12.5		0	56.4	6.5	5.4	7.1	5.0	3.4	3.9	5.2	4.0	1.7	0.6	0.8	79.1	19.9	0.9
770234	10.2		0	10.0	21.9	8.6	4.0	3.7	5.1	13.2	23.5	8.6	1.0	0.2	0.2	47.3	52.5	0.2
770235	6.0		0	0.0	0.0	0.0	0.0	29.3	23.5	23.7	14.2	5.5	2.0	0.8	0.8	22.0	76.9	1.1
770236	2.2		0	0.0	4.5	11.3	6.0	6.7	11.0	22.6	26.4	9.2	1.7	0.4	0.2	26.9	72.8	0.3
770237	2.4		0	0.0	0.0	0.0	0.0	32.9	15.1	23.7	20.0	6.3	1.3	0.5	0.3	24.7	74.9	0.4
770238	8.7		0	2.4	23.2	38.6	9.5	4.2	5.2	6.1	5.9	2.9	1.1	0.5	0.4	76.9	22.6	0.5
770239	8.7		0	5.7	2.1	6.4	14.2	14.0	12.4	15.2	15.0	10.2	3.5	0.8	0.5	38.9	60.4	0.7
770240	12.0		0	13.7	23.2	10.9	8.9	6.3	5.7	6.5	10.7	9.1	3.6	1.0	0.4	61.4	37.9	0.7
770241	12.0		0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.4	7.0	28.8	37.6	24.8	0.0	65.8	34.2
770242	9.6		0	3.5	14.5	13.8	18.0	14.5	11.0	11.3	8.5	3.0	1.0	0.5	0.4	60.7	38.7	0.5
770243	5.7		0	7.5	19.4	15.7	17.9	14.7	5.7	5.5	4.1	4.0	2.8	1.1	1.5	71.6	26.6	1.8
770244	5.2		0	0.0	0.0	0.0	0.0	0.0	5.8	9.9	14.2	19.6	19.7	13.6	17.1	0.0	79.5	20.5
770245	8.5		0	12.2	7.2	7.9	3.6	23.1	8.9	7.9	7.3	8.3	6.6	3.1	4.1	48.1	47.0	4.9
770246	4.1		0	0.0	20.0	20.8	12.8	17.0	13.7	11.2	3.2	0.8	0.2	0.2	0.0	66.4	33.5	0.1
770247	3.0		0	0.0	25.6	24.2	20.7	7.8	1.3	3.2	8.2	7.4	1.4	0.2	0.1	76.3	23.6	0.1
770249	15.0		0	2.9	5.8	9.9	8.8	14.4	13.2	15.4	14.6	8.7	3.8	1.5	1.1	38.2	60.3	1.5
770250	15.0		0	33.2	13.3	9.2	8.2	5.3	9.6	10.9	5.4	3.4	1.2	0.2	0.1	67.8	32.0	0.2
770251	6.5		0	0.0	0.0	0.0	0.0	25.1	18.5	22.6	18.9	9.0	3.3	1.5	1.1	18.8	79.7	1.5
770252	3.1		0	11.0	13.3	7.8	10.2	6.7	3.4	6.4	9.5	11.8	10.6	6.0	3.3	47.4	47.8	4.8
770253	4.2		0	5.8	5.0	10.0	8.3	9.3	9.5	18.8	20.6	9.1	2.6	0.7	0.3	36.1	63.4	0.5
770254	2.8		0	59.9	10.1	8.9	9.5	2.9	2.5	2.7	2.0	0.9	0.4	0.2	0.1	90.5	9.3	0.1
770256	4.5		0	8.9	14.0	10.8	8.9	7.3	4.0	8.8	13.4	14.9	7.8	1.1	0.2	48.1	51.5	0.4
770257	3.2		0	0.0	0.0	0.0	0.0	22.2	20.7	19.0	15.6	15.6	5.4	1.1	0.4	16.6	82.7	0.7
770258	6.7		0	6.4	5.7	15.7	22.1	18.9	6.8	8.2	6.9	6.0	2.4	0.7	0.3	64.1	35.4	0.5
770259	2.1		0	0.0	0.0	0.0	0.0	0.9	2.3	32.5	52.1	10.0	1.4	0.3	0.3	0.7	98.9	0.4
770260	6.2		0	0.0	0.0	2.8	2.8	1.4	3.7	8.6	54.7	24.2	1.2	0.3	0.2	6.7	93.0	0.3
770261	1.8		0	60.6	3.6	7.7	12.8	11.2	0.6	1.3	0.7	0.5	0.3	0.2	0.4	93.1	6.4	0.4
770262	6.0		0	2.6	5.2	13.1	19.2	16.9	6.1	9.7	7.5	5.7	5.0	3.8	5.1	52.8	41.1	6.1
770263	2.1		0	0.0	10.4	3.7	14.9	24.6	5.0	12.2	10.3	7.7	5.1	2.8	3.4	47.5	48.4	4.1
770264	6.5		0	9.8	0.8	4.9	12.2	12.2	6.2	9.9	9.9	9.6	10.8	6.4	7.2	36.9	54.3	8.8
770265	6.0		0	16.4	10.5	3.9	7.9	9.7	14.2	18.4	14.8	3.1	0.6	0.3	0.2	46.0	53.8	0.2
770266	5.2		0	0.0	21.9	12.5	11.0	9.5	6.7	9.9	12.4	11.4	3.7	0.8	0.2	52.5	47.1	0.4
770268	5.7		0	0.0	0.0	0.0	0.0	24.0	21.9	26.0	19.8	6.2	1.3	0.4	0.3	18.0	81.6	0.4
770269	2.0		0	16.4	18.5	13.5	12.8	7.8	5.4	8.4	7.9	4.8	2.3	1.1	1.1	67.2	31.4	1.4
770270			0	20.3	18.7	18.7	8.5	7.5	7.9	9.4	6.4	1.7	0.5	0.3	0.3	71.8	27.9	0.4
770271	1.9		0	29.0	13.7	5.3	6.9	28.4	0.3	1.4	2.9	3.9	5.2	2.3	0.5	76.3	22.6	1.1
770272	5.7		0	0.0	0.0	0.0	0.0	0.8	13.6	18.2	22.2	25.0	14.9	4.1	1.1	0.6	97.3	2.1
770273	4.1		0	34.3	11.7	6.2	7.8	10.1	3.6	5.5	5.9	5.0	3.7	2.5	3.7	67.6	28.0	4.4
770276	2.8		0	24.2	17.6	11.0	11.7	8.0	3.8	6.0	5.4	3.1	2.5	2.5	4.3	70.5	24.6	4.9
770279	6.2		0	46.8	4.0	7.0	7.0	6.1	4.0	4.9	5.0	5.0	3.8	2.2	4.1	69.5	25.9	4.6
770281	7.5		0	27.6	7.3	9.4	12.3	14.6	3.3	6.8	6.4	5.2	3.6	1.8	1.6	67.6	30.3	2.1
770283	3.0		0	0.0	4.0	4.0	0.8	1.6	1.8	8.6	29.0	44.3	5.4	0.5	0.1	9.9	89.8	0.3
770284	6.7		0	0.0	0.0	0.0	0.0	0.4	16.4	18.6	21.3	16.9	10.9	7.6	8.0	0.3	89.8	9.9
770285	4.1		10	29.8	16.0	5.1	13.1	6.9	3.3	4.2	5.8	7.5	5.9	1.8	0.7	69.1	29.8	1.1
770286	7.5		0	0.0	7.7	13.1	12.5	8.5	10.3	11.6	16.1	14.5	4.2	1.0	0.4	39.8	59.6	0.6
770287	5.2		0	0.0	0.0	0.0	0.0	4.2	2.2	4.4	20.8	50.1	15.2	2.3	0.7	3.2	95.5	1.3
770288	12.7		0	34.8	6.1	13.6	22.2	9.8	3.7	3.7	2.7	1.5	0.6	0.4	1.0	84.0	14.9	1.1
770289	3.0		0	0.0	23.8	18.9	15.2	10.6	6.5	9.9	8.2	3.7	1.5	0.8	0.8	65.9	33.1	1.0
770290	2.8		0	27.5	11.1	14.4	10.5	7.6	4.9	7.9	8.3	4.7	1.8	1.0	0.5	69.1	30.1	0.7
770291	2.2		0	0.0	0.0	0.0	0.0	10.2	6.8	15.5	19.1	15.8	20.4	7.6	4.6	7.7	85.8	6.5
770292	4.2		0	0.0	0.0	0.0	0.0	0.0	2.1	17.6	38.4	38.7	2.8	0.2	0.1	0.0	99.9	0.1
770293	2.1		0	18.3	12.2	14.6	14.6	22.8	3.3	6.0	4.2	1.9	0.8	0.4	1.1	76.8	22.1	1.2
770294	2.0		0	4.7	15.1	12.2	19.8	14.3	6.8	8.8	7.8	4.4	2.0	1.6	2.6	62.5	34.5	3.0
770295	5.6		0	4.2	5.0	8.3	21.7	13.8	8.2	10.1	10.6	8.3	4.4	2.2	3.2	49.6	46.7	3.7
770332	1.5		0	0.0	4.0	15.0	25.1	27.0	4.0	6.6	5.4	3.7	3.2	2.6	3.4	64.4	31.5	4.1
770333	2.8		0	13.8	37.4	17.9	10.6	7.3	2.7	4.8	2.7	1.3	0.7	0.4	0.5	85.2	14.3	0.6
770334	1.7		0	0.0	2.4	6.4	11.3	10.2	15.3	19.0	20.3	10.7	3.1	0.8	0.5	27.8	71.5	0.7
770335	2.0		0	0.0	14.5	18.4	19.4	17.3	5.3	9.3	9.3	4.3	1.0	0.4	0.7	65.3	33.9	0.8
793063	15.0	20.0	13	25.7	13.2	18.7	10.9	7.6	7.2	4.4	4.8	2.9	2.2	1.7	0.7	74.2	24.6	1.2
793064	20.0	20.0	10	20.8	17.1	21.5	16.3	8.1	4.7	3.9	4.0	2.1	0.9	0.4	0.3	81.7	18.0	0.4
793065	20.0	20.0	0	0.0	0.0	0.0	8.5	4.5	6.8	13.5	30.8	22.8	7.2	2.7	3.2	11.9	84.2	3.9
793066	5.0	15.0	11	17.5	16.1	13.2	17.5	9.9	7.5	6.1	5.6	3.2	1.8	0.7	0.9	71.7	27.2	1.0
793067	10.0	20.0	0	0.0	0.0	0.0	0.0	1.4	6.6	30.2	45.0	13.9	2.3	0.3	0.3	1.0	98.6	0.4
793068	15.0	20.0	12	23.0	18.9	17.3	12.3	4.7	5.4	6.1	10.6	1.1	0.4	0.2	0.1	75.0	24.8	0.2
793069	15.0	20.0	0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	2.0	28.6	40.7	14.1	12.7	0.0	83.8	16.2
793070	15.0	15.0	10	19.7	11.8	21.3	15.8	6.4	4.5	4.2	4.0	3.3	3.8	3.1	2.1	73.3	23.7	2.9
793071	15.0	15.0	0	0.0	0.0	0.0	5.0	5.0	3.7	3.4	3.6	11.8	33.7	20.8	13.0	8.8	73.0	18.2
793072	14.0	30.0	10	11.4	27.7	14.7	9.8	4.5	4.1	3.7	4.4	6.6	6.9	3.5	2.6	67.0	29.6	3.4
793073	14.0	30.0	0	0.0	0.0	0.0	0.0	1.6	1.3	3.0	25.4	52.6	14.7	1.2	0.3	1.2	98.2	0.6
793079	10.0	20.0	10	0.0	0.0	0.0	0.0	13.2	13.5	15.6	24.7	22.9	6.7	1.8	1.5	9.9	88.2	1.9
793080	10.0	20.0	0	0.0	0.0	0.0	0.0	1.3	2.1	5.8	37.0	40.7	9.7	2.1	1.3	1.0	97.3	1.8
793081	5.0		0	16.1	6.6	11.0	9.5	5.9	4.3	4.6	8.4	7.4	10.0	9.9	6.4	7.9	47.7	42.8	9.5
793082	2.0		0	0.0	0.0	0.0	0.0	14.7	7.9	10.3	12.3	14.5	12.3	9.5	18.5	11.0	68.1	20.9
793083	10.0	30.0	10	16.6	17.3	14.1	7.0	2.1	1.7	3.4	10.3	12.3	10.2	4.0	1.0	56.6	41.4	2.0
793084	10.0	30.0	0	0.0	0.0	0.0	0.0	0.4	0.9	0.8	1.9	5.3	32.8	41.2	16.7	0.3	72.7	27.0
793085	5.0		0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	7.4	37.9	52.8	1.1	0.2	0.0	99.5	0.5
793086	5.0	10.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	11.3	52.8	35.2	0.2	0.0	0.0	100.0	0.0
793087	5.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	57.9	37.2	0.7	0.1	0.0	99.7	0.3
793088		10.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	40.3	55.5	3.1	0.2	0.0	99.0	1.0
793089	10.0	15.0	0	0.0	0.0	0.0	0.0	1.4	3.7	12.6	36.0	32.1	10.7	2.3	1.2	1.1	97.2	1.7
793090	10.0	15.0	10	0.0	25.7	27.6	16.2	6.1	3.5	4.3	6.7	6.7	2.4	0.7	0.3	74.0	25.6	0.4
793091			0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	11.4	50.3	32.4	5.5	0.0	86.5	13.5
793092	5.0		10	0.0	11.5	15.7	9.9	5.3	3.7	6.0	12.5	15.1	10.8	5.7	3.8	41.1	53.6	5.3
793093	15.0		10	0.0	0.0	0.0	0.0	25.7	16.7	17.4	19.0	15.0	4.7	1.0	0.4	19.3	80.1	0.7
793094	15.0		0	0.0	0.0	0.0	0.0	2.9	3.8	7.3	17.2	44.0	22.7	1.7	0.4	2.2	96.9	0.9
793095	6.0	6.0	30	9.4	16.0	29.1	26.3	11.9	3.1	1.6	1.4	0.7	0.2	0.1	0.1	89.7	10.1	0.1
793098	12.0	15.0	0	0.0	0.0	0.0	6.6	4.1	4.9	5.4	11.5	22.1	33.3	10.5	1.7	9.7	86.1	4.3
793100	15.0	15.0	35	7.7	17.4	19.4	13.5	9.5	8.2	9.9	9.0	3.6	1.2	0.4	0.2	65.2	34.5	0.3
793101			0	0.0	0.0	0.0	0.0	1.2	1.0	1.3	1.0	2.0	49.8	33.2	10.5	0.9	80.4	18.8
793102	15.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	1.2	4.3	41.2	51.6	0.0	38.1	61.9
793103	2.0	10.0	30	8.6	22.2	16.1	12.4	4.3	5.4	8.0	12.8	7.3	1.8	0.6	0.5	62.5	36.8	0.6
793104	5.0	10.0	10	14.3	19.0	16.7	11.9	6.4	5.9	7.8	11.0	5.4	1.1	0.3	0.2	66.6	33.1	0.3

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
793105	7.0	15.0	0	0.0	0.0	0.0	2.3	3.5	8.5	15.4	36.2	28.1	4.9	0.6	0.4	5.0	94.5	0.5
793116	15.0	20.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	2.3	7.3	46.7	42.2	0.0	46.1	53.9
793121	10.0	12.0	56	0.0	9.2	9.2	8.3	7.8	4.8	5.7	9.5	17.9	15.6	7.2	4.8	32.5	60.9	6.6
793161	2.0	15.0	30	39.7	12.9	10.4	6.0	6.3	5.8	6.5	5.0	3.1	2.1	1.2	0.9	73.8	25.0	1.2
793162	3.0	10.0	30	0.0	2.1	16.1	18.2	13.9	10.9	16.7	15.8	4.2	1.1	0.5	0.5	46.9	52.5	0.7
794077	6.0		30	0.0	11.4	8.7	11.4	6.5	9.8	10.6	11.5	10.9	9.4	5.9	3.8	36.5	58.2	5.3
862000	4.5	10.0	15	0.0	18.7	5.1	5.1	5.3	8.1	7.3	7.7	8.7	10.2	9.3	14.4	32.9	50.4	16.7
862001	4.5	10.0	17	0.0	2.9	3.6	10.9	3.2	5.7	6.7	7.2	9.0	12.3	13.1	25.2	19.9	51.6	28.5
862002	6.4	20.0	18	9.0	28.7	16.1	15.5	5.6	6.1	7.3	8.0	2.8	0.5	0.2	0.1	73.6	26.3	0.2
862003	6.0	10.0	0	0.0	0.0	0.0	1.1	10.2	7.7	8.6	12.2	15.0	10.7	9.6	25.0	8.7	63.9	27.4
862004	5.5	12.0	10	4.2	19.8	19.8	16.3	10.0	9.9	8.0	7.1	3.3	0.9	0.4	0.3	67.6	32.0	0.4
862005	8.0	15.0	12	0.0	30.4	17.1	13.7	7.1	7.1	9.4	9.0	4.2	1.2	0.5	0.4	66.5	33.0	0.5
862006	8.0	15.0	0	0.0	0.0	0.0	0.0	0.2	0.3	3.2	34.4	55.5	5.9	0.4	0.1	0.2	99.6	0.2
862007	9.0	20.0	10	5.8	14.5	13.7	13.0	7.5	7.3	7.3	10.9	12.9	5.6	0.9	0.4	52.6	46.7	0.7
862008	9.0	20.0	11	0.0	0.0	1.6	9.7	8.3	9.2	12.9	24.1	23.7	9.3	1.0	0.2	17.5	82.0	0.5
862009	9.0	20.0	0	0.0	0.0	0.0	0.0	0.1	1.0	4.0	20.5	59.8	13.7	0.9	0.0	0.1	99.6	0.3
862010	10.0	20.0	10	0.0	9.4	14.1	14.8	13.5	12.1	12.2	11.7	9.3	2.4	0.4	0.2	48.4	51.4	0.3
862011	10.0	20.0	10	0.0	4.4	3.6	12.4	11.8	11.9	10.4	13.9	17.4	11.0	2.8	0.5	29.2	69.6	1.2
862012	10.0	20.0	0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	14.4	44.7	26.0	9.9	3.6	0.0	94.0	6.0
862013	7.0	15.0	10	20.4	19.0	20.4	14.3	4.9	4.8	4.7	6.0	4.3	0.9	0.2	0.1	77.7	22.1	0.2
862014	3.6	10.0	17	0.0	3.0	5.3	11.3	3.4	6.3	6.8	8.7	10.4	13.8	12.5	18.6	22.2	56.1	21.7
862015	2.3	15.0	10	0.0	14.7	19.4	22.7	11.5	6.5	7.0	10.8	6.0	1.0	0.2	0.2	65.4	34.3	0.3
862016	2.3	15.0	0	0.0	0.0	0.0	0.0	1.7	3.5	9.7	21.6	46.8	16.2	0.4	0.0	1.2	98.6	0.1
862017	2.3	15.0	11	0.0	21.4	22.2	17.6	9.0	7.3	6.9	10.2	4.3	0.8	0.2	0.1	68.0	31.8	0.2
862018	8.0	15.0	10	0.0	1.4	4.2	5.6	4.2	4.3	4.8	6.3	8.6	10.8	15.7	34.1	14.3	47.6	38.1
862019	9.0	15.0	11	0.0	3.1	3.9	7.1	8.4	8.1	17.0	31.0	15.0	4.9	1.2	0.3	20.5	78.9	0.6
862020	9.0	15.0	11	0.0	0.6	1.9	3.8	5.8	9.6	10.7	17.4	22.3	15.2	9.7	3.0	10.7	83.8	5.5
862021	10.5	20.0	12	0.0	13.3	12.5	11.7	9.8	8.2	11.2	20.0	11.1	1.5	0.3	0.1	45.0	54.8	0.2
862022	5.0	20.0	0	0.0	0.0	0.0	1.7	8.5	10.4	12.2	17.5	18.5	16.2	9.7	5.4	8.1	84.1	7.8
862024	4.5	20.0	11	21.6	18.4	17.2	12.7	7.1	4.6	5.4	7.5	4.1	0.8	0.3	0.2	75.2	24.5	0.3
862025	6.5	15.0	10	23.5	9.7	20.7	15.2	5.9	5.1	4.9	7.8	4.9	1.5	0.5	0.5	73.4	26.0	0.6
862026	5.5	15.0	18	0.0	7.6	6.9	5.5	5.6	6.5	5.9	8.2	12.0	12.8	10.2	18.7	24.3	54.5	21.3
862027	3.4	15.0	0	0.0	0.0	0.0	0.0	4.5	6.4	7.1	9.6	13.6	13.5	12.3	33.0	3.4	60.6	36.0
862028	7.5	10.0	10	0.0	15.3	23.9	23.3	8.5	7.1	3.0	2.3	6.3	6.5	2.6	1.2	68.9	29.3	1.9
862029	13.0	20.0	12	12.0	25.5	12.0	12.8	6.9	5.7	5.7	7.1	5.8	2.7	1.4	2.4	67.5	29.8	2.7
862030	7.5	20.0	11	24.5	16.8	12.6	12.6	8.6	6.5	6.5	5.4	3.6	1.7	0.8	0.4	72.9	26.4	0.6
862031	8.2	20.0	11	17.7	17.7	18.3	11.8	7.8	12.8	9.0	3.3	0.9	0.3	0.2	0.2	71.2	28.5	0.2
862032	3.5	15.0	10	27.7	10.4	15.2	14.5	8.6	9.0	5.2	3.0	3.4	1.8	0.8	0.4	74.3	25.1	0.6
862033	12.0	20.0	70	0.0	15.9	13.6	13.1	6.1	12.8	17.2	15.9	4.5	0.8	0.1	0.1	47.2	52.7	0.1
862034	12.0	20.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	23.9	56.8	15.4	2.1	0.0	94.0	6.0
862035	12.0	20.0	11	0.0	21.0	15.6	18.3	12.2	12.9	9.4	5.8	2.6	0.9	0.5	0.7	64.1	35.1	0.8
862036	15.0	25.0	10	0.0	3.9	7.9	11.8	8.1	11.9	20.6	21.8	10.3	2.1	0.9	0.6	29.7	69.4	0.8
862037	6.5	20.0	45	0.0	3.2	7.7	9.7	5.4	7.1	7.6	9.0	12.1	10.6	9.5	18.1	24.7	54.9	20.4
862038	15.0	25.0	35	13.2	7.0	9.3	12.5	11.1	13.8	14.1	10.4	4.5	1.8	1.2	1.0	50.4	48.3	1.3
862039	15.0	25.0	0	0.0	0.0	0.0	0.0	0.0	2.4	3.9	11.6	44.0	29.2	6.8	2.1	0.0	96.2	3.8
862040	17.0	30.0	10	10.4	21.5	17.6	19.6	9.0	7.1	5.5	4.4	2.5	1.2	0.7	0.5	75.9	23.4	0.7
862041	17.0	30.0	15	0.0	21.1	20.4	19.0	9.9	8.1	8.2	7.4	3.7	1.3	0.5	0.3	68.0	31.6	0.4
862042	17.0	30.0	0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	1.0	1.6	30.6	65.4	0.0	27.0	73.0
862043	2.1	15.0	15	0.0	12.2	20.0	24.4	9.6	9.5	7.4	7.8	5.5	1.7	1.1	0.9	63.8	35.1	1.1
862044	2.1	15.0	0	0.0	0.0	0.0	0.0	5.4	5.0	6.4	11.3	12.8	10.6	9.5	39.1	4.1	54.5	41.5
862045	2.6	15.0	11	27.0	14.4	16.7	10.4	5.2	6.4	7.0	7.9	3.6	0.8	0.3	0.3	72.3	27.3	0.3
862049	5.5	20.0	0	0.0	0.0	0.0	18.1	4.2	5.6	5.4	6.3	9.0	11.2	12.4	27.9	21.3	47.8	31.0
862057	5.5	20.0	10	0.0	2.6	5.9	6.5	3.8	6.0	8.9	23.6	34.5	7.3	0.8	0.2	17.8	81.8	0.4
862058	5.5	20.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.8	38.9	50.0	9.0	1.1	0.0	96.7	3.3
862059	7.5	20.0	10	5.1	11.5	8.7	10.8	8.0	6.3	10.4	20.4	11.8	4.1	2.0	0.9	42.1	56.6	1.3
862060	2.5	15.0	0	0.0	0.0	0.0	12.5	6.0	5.2	5.7	6.3	8.2	11.6	11.1	33.4	17.1	46.8	36.1
862089	2.8	15.0	10	0.0	0.8	8.4	9.9	7.8	6.3	7.5	9.1	11.8	12.3	11.7	14.4	24.9	57.8	17.3
862090	1.1	15.0	10	0.0	5.1	8.4	9.3	5.6	3.8	4.5	5.8	8.8	13.5	15.5	19.8	26.9	49.4	23.7
862091	0.8	15.0	13	10.2	11.1	15.3	21.3	15.0	9.2	6.6	5.6	3.5	1.2	0.6	0.4	69.1	30.3	0.6
862092	1.2	15.0	0	0.0	0.0	0.0	0.0	0.0	1.7	4.8	24.7	46.2	18.5	3.3	0.7	0.0	98.4	1.6
862093	1.3	15.0	19	0.0	2.8	8.5	8.5	4.1	13.1	27.7	26.1	7.0	1.2	0.4	0.5	22.9	76.5	0.6
862094	1.7	20.0	11	20.1	20.7	20.1	14.0	6.3	4.9	4.0	6.1	2.8	0.7	0.3	0.2	79.5	20.2	0.3
862095	1.2	20.0	12	1.8	13.0	15.9	19.5	10.8	10.1	9.6	9.8	6.1	2.1	0.7	0.6	58.3	41.0	0.7
862097	0.8	15.0	11	14.8	20.5	10.6	14.8	9.8	9.4	6.6	7.5	4.0	1.1	0.5	0.4	68.2	31.4	0.5
862098	1.1	15.0	0	0.0	0.0	0.0	0.0	0.2	4.7	2.9	43.0	41.2	7.4	0.5	0.1	0.1	99.7	0.2
862099	15.6	20.0	11	0.0	4.9	9.2	10.5	6.0	6.8	8.0	22.3	26.5	5.3	0.4	0.2	29.1	70.6	0.3
862100	18.5	25.0	10	0.0	5.0	5.7	8.6	7.8	9.7	13.8	25.2	21.6	2.2	0.4	0.1	25.1	74.6	0.2
862101	0.9	25.0	10	0.0	17.1	20.8	12.6	8.7	8.5	8.5	12.5	9.4	1.5	0.2	0.2	57.0	42.8	0.2
862102	4.4	20.0	0	0.0	0.0	0.0	0.0	0.5	2.5	2.9	23.0	49.7	19.1	2.0	0.4	0.3	98.8	0.9
862103	1.6	10.0	10	13.1	26.3	17.0	11.6	7.7	7.0	6.3	5.7	2.6	0.9	0.7	1.1	73.8	24.9	1.3
862108	0.9	20.0	12	13.6	10.0	4.3	8.6	3.9	5.3	6.9	8.1	9.0	9.6	9.4	11.3	39.3	47.0	13.7
862109	1.4	25.0	11	4.9	23.9	21.4	13.6	5.7	5.0	5.3	9.9	7.6	1.8	0.6	0.3	68.0	31.5	0.5
862110	2.6	25.0	15	21.2	17.1	16.4	12.3	7.3	6.0	5.4	4.6	3.2	2.0	1.5	2.8	72.6	24.2	3.2
862111	0.8	15.0	13	3.5	11.1	15.3	22.3	14.2	7.2	3.7	3.4	5.6	5.4	3.4	4.9	62.8	31.4	5.8
862112	0.8	15.0	10	0.0	12.3	11.1	13.5	6.2	7.1	7.8	7.5	7.6	7.1	6.2	13.7	41.6	43.2	15.2
862115	2.8	15.0	13	4.3	9.8	25.1	22.1	6.9	6.4	6.8	11.2	5.9	1.2	0.2	0.1	66.4	33.4	0.2
862116	1.8	20.0	14	4.3	11.1	17.9	23.0	12.2	11.5	9.4	5.6	2.7	0.9	0.6	0.8	65.4	33.7	0.9
862117	2.6	20.0	14	0.0	12.0	14.2	18.0	11.2	12.1	15.3	11.7	4.2	0.9	0.3	0.2	52.5	47.2	0.3
862118	2.8	20.0	13	19.0	25.3	12.7	10.5	6.5	4.3	4.2	7.5	7.3	2.3	0.3	0.1	72.4	27.4	0.2
862119	2.8	20.0	14	5.9	19.0	19.0	17.6	8.7	7.6	11.0	8.1	2.4	0.5	0.2	0.1	67.9	31.9	0.2
862120	2.1	25.0	13	13.6	19.5	19.5	21.4	9.4	6.2	5.2	3.0	1.3	0.4	0.2	0.2	81.1	18.7	0.2
862121	2.2	25.0	12	0.0	11.8	17.1	27.0	11.8	12.5	9.9	5.9	2.8	0.8	0.3	0.2	64.8	35.0	0.3
862122	2.4	25.0	15	3.8	26.4	20.8	17.6	7.3	7.4	6.9	5.5	2.8	0.9	0.4	0.2	74.0	25.6	0.3
862123	2.2	25.0	15	0.0	19.4	22.9	20.6	9.0	10.9	9.4	5.6	1.6	0.3	0.1	0.1	69.6	30.3	0.2
862124	2.4	25.0	0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	4.3	20.1	27.6	31.7	15.2	0.0	76.9	23.1
862125	1.9	10.0	0	0.0	0.0	0.0	3.4	9.4	13.5	16.8	35.1	19.3	2.3	0.2	0.1	10.4	89.5	0.1
862126	2.1	10.0	0	0.0	0.0	0.0	2.7	3.4	3.2	9.7	39.1	38.8	2.9	0.2	0.0	5.2	94.7	0.1
862127	2.6	15.0	15	18.5	12.9	19.1	13.5	7.3	6.6	5.9	8.5	5.8	1.5	0.3	0.2	69.5	30.3	0.2
862128	2.5	25.0	13	0.0	6.4	9.6	7.7	9.7	8.1	13.3	18.8	17.1	6.3	1.8	1.0	31.1	67.4	1.5
862129	2.8	20.0	14	17.2	24.5	18.4	11.6	4.4	5.6	5.6	7.7	3.0	1.1	0.5	0.3	75.0	24.5	0.5
862130	2.5	20.0	13	0.0	17.8	26.7	22.2	8.2	7.7	7.3	7.2	2.2	0.4	0.2	0.1	72.8	27.0	0.2
862131	2.2	20.0	13	6.5	10.0	8.8	8.2	3.4	5.0	5.3	10.0	21.6	17.5	3.1	0.5	36.1	62.6	1.3
862132	1.2	20.0	0	0.0	0.0	0.0	1.9	2.9	6.3	10.3	30.8	32.8	10.7	3.0	1.2	4.1	93.9	2.0
862133	1.3	20.0	13	4.0	23.9	19.2	12.6	5.9	5.4	7.0	10.3	7.6	2.5	0.9	0.5	64.1	35.1	0.8
862134	1.4	19.0	0	0.0	0.0	0.0	39.2	19.9	9.9	9.0	10.4	7.6	2.5	0.9	0.6	54.1	45.1	0.8
862135	1.6	15.0	0	0.0	0.0	0.0	26.1	7.3	5.7	20.2	31.4	6.2	1.6	0.9	0.7	31.5	67.6	0.9
862136	2.7	20.0	11	0.0	29.4	20.4	12.8	7.8	5.0	5.7	11.2	6.4	1.0	0.2	0.1	68.5	31.4	0.1
862137	2.8	20.0	12	0.0	3.1	7.5	9.4	13.0	12.8	14.1	21.4	16.4	1.9	0.2	0.1	29.8	70.0	0.2
862138	2.8	20.0	10	0.0	11.2	13.0	15.3	8.8	10.1	10.3	15.4	11.9	3.4	0.4	0.1	46.2	53.6	0.2
862139	2.5	20.0	10	0.0	25.1	17.6	15.1	5.1	7.1	12.4	13.3	3.2	0.6	0.3	0.2	61.6	38.2	0.3
862140	1.1	20.0	0	0.0	0.0	0.0	7.7	6.2	8.4	7.9	9.1	11.6	14.0	14.6	20.6	12.4	63.4	24.2
862141	2.6	20.0	14	8.9	3.0	6.5	9.5	7.3	9.6	9.2	9.7	11.4	9.2	7.5	8.2	33.3	56.6	10.1
862146		25.0	0	0.0	0.0	0.0	0.0	0.0	20.2	6.3	3.5	2.8	5.1	31.9	30.1	0.0	61.9	38.1
862147	2.8	20.0	10	22.2	12.7	11.9	11.1	5.7	6.6	7.7	11.7	8.6	1.7	0.3	0.1	62.0	37.8	0.1
862148	2.6	20.0	0	0.0	0.0	0.0	4.3	5.6	4.6	7.8	21.3	39.3	15.0	1.7	0.5	8.5	90.6	0.9
862149	2.6	20.0	13	0.0	19.1	19.8	17.0	6.9	8.4	7.6	9.3	8.3	2.4	0.6	0.5	61.1	38.3	0.7
862150	2.4	20.0	19	5.5	15.1	18.5	13.0	7.2	5.9	5.6	14.6	11.9	2.2	0.3	0.2	57.5	42.3	0.2
862151	2.6	20.0	12	13.6	26.5	23.0	13.6	5.5	4.3	3.7	5.1	3.5	0.8	0.2	0.2	80.9	18.9	0.2
862023	4.5	20.0	11	10.8	23.8	18.1	18.8	8.1	4.5	4.7	6.1	4.0	0.7	0.2	0.1	77.6	22.2	0.2
863031	3.0		21	6.3	28.7	23.1	14.7	8.1	9.1	6.6	2.7	0.5	0.1	0.1	0.1	78.8	21.1	0.1
863032	4.0		26	33.2	21.3	10.6	6.6	4.9	7.1	8.9	4.8	1.5	0.4	0.3	0.3	75.3	24.2	0.4
863033	6.0	8.0	10	24.0	17.6	12.7	10.5	8.9	9.1	7.3	6.4	3.0	0.4	0.1	0.1	71.4	28.5	0.1
863034	2.0		0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.8	38.4	43.5	16.0	0.0	73.1	26.9
863035	8.0	8.0	23	0.0	0.0	0.0	0.0	1.9	3.1	3.6	26.7	51.9	9.9	2.5	0.4	1.4	97.6	1.0
863037	12.0	12.0	20	0.0	18.8	9.4	10.6	10.1	13.7	16.4	11.2	7.2	2.1	0.5	0.2	46.3	53.4	0.3
863038	12.0	12.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	18.5	62.5	16.4	2.1	0.2	0.0	99.3	0.7
863039	10.0		0	0.0	0.0	0.0	2.6	3.9	5.6	25.1	48.4	13.3	0.8	0.2	0.1	5.6	94.3	0.1
863040	10.0		21	0.0	12.9	18.6	14.5	7.1	9.0	10.2	12.4	9.9	3.6	1.2	0.6	51.3	47.8	0.9
863041	6.0		23	0.0	4.9	13.0	12.2	11.5	20.0	21.5	11.9	3.5	0.8	0.3	0.4	38.6	60.9	0.5
863042	2.0		22	5.6	18.6	12.4	16.1	10.4	7.0	7.5	12.6	7.6	1.4	0.4	0.5	60.4	39.0	0.6
863043	1.5		28	29.8	19.1	13.0	11.4	6.8	5.2	4.4	4.4	3.6	1.7	0.5	0.1	78.4	21.4	0.3
863044	1.0		21	0.0	19.0	13.8	9.8	7.1	12.4	14.2	15.4	6.8	1.0	0.3	0.2	47.9	51.8	0.2
863045	2.3		0	0.0	8.9	25.1	25.9	13.6	9.3	5.2	4.1	5.1	2.0	0.6	0.2	70.1	29.5	0.3
863046	2.0	8.0	0	0.0	0.0	0.0	33.0	25.8	13.8	10.4	9.5	5.6	1.3	0.4	0.2	52.4	47.3	0.3
863047	2.5		0	0.0	0.0	0.0	11.0	5.0	4.2	5.3	5.4	5.6	22.6	31.4	9.5	14.7	67.9	17.4
863072	3.8	8.0	22	6.8	23.8	17.7	14.9	7.8	8.4	9.4	7.2	2.8	0.8	0.3	0.1	69.0	30.8	0.2
863073	6.5		0	0.0	0.0	0.0	9.2	10.1	26.0	22.4	17.8	10.4	2.4	0.9	0.8	16.7	82.2	1.1
863074	9.0	9.0	0	0.0	0.0	0.0	0.0	0.0	0.9	8.9	53.8	29.7	6.0	0.7	0.1	0.0	99.7	0.3
863075	9.0	9.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	13.4	54.7	25.9	5.5	0.0	88.0	12.0
873000	12.0	10.0	0	0.0	0.0	0.0	4.1	6.5	8.3	18.6	26.3	15.4	7.8	10.0	2.9	8.9	85.6	5.4
873001	12.0	10.0	0	0.0	0.0	0.0	8.9	5.8	10.1	21.7	34.5	13.7	4.5	0.7	0.1	13.2	86.5	0.3
873002	12.0	10.0	0	0.0	0.0	0.0	0.0	3.7	7.0	9.0	9.9	25.4	36.5	7.1	1.4	2.8	94.0	3.2
873003	13.8	12.0	0	0.0	0.0	0.0	0.0	2.1	4.6	12.5	32.7	37.1	9.4	1.3	0.2	1.6	97.8	0.6
873004	13.8	12.0	0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	8.1	55.5	30.2	4.1	0.3	0.0	98.7	1.3
873005	13.8	12.0	0	0.0	0.0	0.0	0.0	0.1	1.6	1.3	0.8	0.8	11.2	47.4	36.7	0.1	51.3	48.6
873006	13.8	12.0	0	0.0	0.0	0.0	0.0	0.0	0.4	4.7	34.2	49.3	10.6	0.8	0.0	0.0	99.8	0.2
873007	13.8	12.0	0	0.0	0.0	0.0	3.6	7.0	13.2	14.3	17.3	25.0	15.3	3.3	1.0	8.8	89.3	1.8
873008	13.8	12.0	0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	25.3	0.0	69.0	4.9	0.1	77.8	22.2
873009	8.0	8.0	0	0.0	0.0	0.0	0.0	0.2	5.8	5.3	2.2	5.4	31.7	35.0	14.4	0.1	76.7	23.2
873010	8.0	8.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.2	36.0	52.1	9.5	0.7	0.0	96.9	3.1
873011	9.0	13.0	11	0.0	0.0	0.0	0.8	1.6	1.7	5.0	19.1	31.8	32.2	7.0	1.0	2.0	95.3	2.7
873012	9.0	13.0	0	0.0	0.0	0.0	3.5	0.1	0.2	1.4	19.5	48.5	21.0	4.8	0.9	3.5	94.4	2.1
873013	9.0	13.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	12.4	42.2	34.0	10.3	0.0	81.2	18.8
873014	12.0	6.0	0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.7	22.0	49.0	21.6	6.3	0.0	88.3	11.7

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
873015	12.0	6.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.2	56.7	23.2	2.8	0.0	91.4	8.6
873016	12.0	6.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.8	98.6	0.0	1.3	98.7
873017	6.0	12.0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	3.5	25.1	60.7	10.4	0.0	74.4	25.6
873018	17.0	17.0	12	0.0	0.0	0.0	0.0	0.0	0.4	1.7	10.3	38.7	35.4	11.5	1.9	0.0	95.2	4.8
873019	17.0	17.0	0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	1.8	11.5	32.8	36.8	15.6	0.0	75.2	24.8
873020	17.0	17.0	0	0.0	0.0	0.0	13.4	8.4	8.5	9.2	20.4	21.1	10.4	6.1	2.4	19.7	76.4	3.9
873021	17.0	17.0	0	0.0	0.0	0.0	0.0	2.6	0.9	2.0	13.1	36.5	28.7	13.5	2.7	1.9	92.0	6.1
873022	17.0	17.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	48.0	32.8	10.8	3.5	0.0	93.8	6.2
873072	5.0	10.0	10	0.0	6.1	8.9	7.5	3.4	5.6	12.5	27.6	23.0	4.7	0.6	0.1	25.0	74.7	0.3
873073	5.0	10.0	0	0.0	0.0	0.0	1.7	0.4	1.0	2.3	10.0	35.2	39.1	8.3	2.0	2.0	93.9	4.1
873098	14.0	14.0	10	3.0	4.5	8.2	7.5	6.4	5.8	12.3	36.0	15.8	0.5	0.0	0.0	28.0	72.0	0.0
873099	14.0	14.0	0	0.0	0.0	0.0	12.9	4.3	3.5	6.9	19.3	26.8	21.9	3.9	0.6	16.1	82.3	1.6
873100	1.9	8.0	0	0.0	0.0	0.0	1.5	10.0	12.2	24.8	31.2	15.4	4.1	0.7	0.2	9.0	90.7	0.3
873101	1.9	8.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.8	54.5	42.3	0.0	44.1	55.9
873102	1.8	8.0	13	0.0	0.0	0.0	1.4	6.1	3.8	12.0	36.6	33.3	6.0	0.6	0.1	6.0	93.7	0.3
873112	4.0	10.0	11	0.0	13.7	22.2	19.6	6.4	3.0	3.5	7.6	13.3	8.2	2.0	0.3	60.3	38.9	0.8
873113	4.0	10.0	0	0.0	0.0	0.0	0.0	0.0	1.4	1.6	3.5	16.8	38.6	29.5	8.7	0.0	83.9	16.1
873114	8.0	10.0	0	0.0	0.0	0.0	1.2	1.9	5.8	12.8	30.1	38.2	8.9	0.9	0.2	2.6	97.0	0.4
873115	8.0	10.0	0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.2	36.2	50.6	9.3	1.2	0.0	96.5	3.5
873116	8.0	10.0	0	0.0	0.0	0.0	1.3	2.0	2.9	6.3	16.3	39.6	26.8	4.2	0.5	2.8	95.6	1.6
873117	2.3	6.0	0	0.0	0.0	0.0	2.2	2.3	3.4	5.9	15.3	30.5	27.5	11.0	2.0	3.9	91.4	4.8
873118	1.7	3.0	0	0.0	0.0	0.0	24.5	8.5	6.1	7.0	20.7	26.0	6.3	0.7	0.2	30.9	68.7	0.4
873119	3.0		0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.7	1.8	16.3	51.8	27.8	0.0	59.2	40.8
873122	2.8	5.0	11	0.0	0.0	0.0	11.5	7.0	4.1	7.9	27.0	31.9	8.5	1.7	0.4	16.8	82.4	0.8
873123	2.8	5.0	0	0.0	0.0	0.0	0.0	0.6	2.0	11.1	36.5	38.5	10.2	0.8	0.2	0.5	99.2	0.4
873124	3.0		11	0.0	7.7	6.3	6.3	3.2	6.8	16.8	32.6	17.5	2.4	0.2	0.1	22.8	77.0	0.1
873125	3.0	8.0	0	0.0	0.0	0.0	1.7	1.2	2.8	15.3	52.3	22.8	3.4	0.3	0.1	2.6	97.2	0.2
873126	3.0	30.0	15	5.0	23.0	20.8	17.1	10.3	6.1	5.4	7.3	4.0	0.7	0.2	0.1	73.7	26.2	0.2
873127	3.3	20.0	11	8.3	17.3	20.4	12.1	8.3	4.1	4.6	11.0	10.4	2.8	0.5	0.2	64.3	35.4	0.3
873128	3.2	20.0	10	8.0	13.8	11.6	10.9	6.1	7.4	9.9	19.9	10.1	1.6	0.4	0.3	48.9	50.7	0.4
873129	3.2	20.0	0	0.0	0.0	0.0	2.9	4.7	4.9	6.3	9.7	13.4	15.0	14.5	28.5	6.5	61.4	32.1
873130	2.8	20.0	13	0.0	16.8	13.4	9.4	5.6	4.7	4.4	11.5	21.8	10.4	1.5	0.5	43.8	55.3	0.9
873167	1.4		0	0.0	0.0	0.0	0.0	2.6	2.1	4.1	18.8	45.8	23.2	3.1	0.4	1.9	96.9	1.2
873168	1.2		0	0.0	0.0	0.0	11.8	1.0	2.5	10.1	42.3	26.3	4.5	1.0	0.5	12.6	86.6	0.8
873169	4.0	15.0	10	7.9	17.3	16.5	11.5	4.6	4.8	5.6	16.4	12.3	2.5	0.4	0.2	56.7	43.1	0.3
873188	4.5	4.0	12	3.9	11.6	16.7	16.1	12.4	10.4	7.5	7.5	6.4	5.3	1.7	0.5	57.6	41.5	0.9
873189	6.0	6.0	12	0.0	0.0	7.1	15.0	14.9	8.8	11.3	19.9	12.3	6.4	3.3	1.0	33.2	65.0	1.8
873190	6.0	6.0	0	0.0	0.0	0.0	11.2	5.3	4.3	8.1	18.1	26.4	17.6	7.1	1.9	15.2	81.2	3.7
873191	6.0	6.0	10	2.2	5.8	19.6	15.2	10.6	6.4	7.7	9.5	11.8	7.8	2.7	0.9	50.8	47.7	1.5
873193	2.3	5.0	0	0.0	0.0	0.0	0.0	0.5	2.9	9.7	10.6	9.5	23.3	28.8	14.6	0.3	77.8	21.8
873194	1.0	10.0	10	0.0	4.1	12.4	16.5	11.0	11.9	14.1	16.4	11.0	1.9	0.5	0.3	41.2	58.4	0.4
873195	1.0	5.0	10	15.3	24.2	23.6	11.2	3.5	2.7	3.4	6.7	7.0	1.9	0.4	0.2	76.9	22.9	0.2
873196	0.5	5.0	0	0.0	0.0	0.0	0.0	0.2	0.7	2.0	15.1	60.4	20.1	1.3	0.2	0.2	99.4	0.5
873233	0.5	7.0	0	0.0	0.0	0.0	5.7	15.2	24.9	21.7	16.4	9.6	3.2	1.6	1.6	17.1	80.9	2.0
892096	0.8	15.0	0	0.0	0.0	0.0	0.0	0.4	7.5	3.2	4.6	8.0	13.2	21.5	41.6	0.3	52.7	47.0
980018			0	0.0	0.0	0.0	4.9	14.6	14.5	17.7	20.6	18.1	6.2	2.1	1.3	15.8	82.4	1.8
980019			0	0.0	0.0	0.0	3.1	4.1	5.3	10.2	20.9	25.7	19.1	8.8	2.7	6.2	88.9	4.9
980020			0	0.0	0.0	0.0	7.8	5.4	8.2	9.7	12.8	27.1	23.0	5.1	0.9	11.9	85.9	2.2