



Poticrete

The City of Bellingham strives for sustainable practices. One creative project involved recycling 400 toilets for use as aggregate in sidewalk cement.

In [collaboration](#) with the Bellingham Housing Authority, Dawson Construction, and Cowden Sand and Gravel, the toilets were diverted from the landfill and crushed, then tested as an alternative to virgin aggregate. Test results demonstrated the 'poticrete' met City requirements for flatwork concrete. In late August, 2011, the City will be placing 250 square yards of 'poticrete' on Ellis Street as part of the Meador/Kansas/Ellis final link in the Whatcom Creek Trail.

The final mix contains about 20% crushed toilets by volume and represents about 5 tons of material diverted from a landfill and into a sidewalk. S&S Concrete will install the poticrete. Crushing the toilets costs about the same as using virgin aggregate from regional gravel pits.

Upon successful completion of this project, the City revised the concrete specification to allow the use of similar materials, including crushed concrete, for flatwork concrete aggregate in City projects.

Porcelain Wanted for Poticrete

[More porcelain is needed to produce more Poticrete.](#) Toilets, sinks and other porcelain products are collected for recycling at [Sanitary Service Company](#) or [Recycling Disposal Services](#).

More Information

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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing
Report #C 032911



REPORT OF COMPRESSION TEST ON SAMPLES CAST BY OTHERS

PROJECT: _____
PROJECT ADDRESS: _____
PROJECT #:

QC - Cowden Gravel
Lab Work
11W018
2011

Cowden Gravel
Brentwood
1433 Cowden
Bellingham

REACTOR
LOCATION OF PLACED
MATERIAL PLACED, C



LOG NO.	TEST AGE (DAYS)	DATE OF TEST	COMPRESSION TEST RESULTS			TESTED BY	
			TOTAL LOAD (LBS)	CYLINDER R. DIA. (IN.)	CYLINDER AREA (SQ. IN.)		COMPRESSIVE STRENGTH (PSI)
0399	7	3/31/11	61,600	6.00	28.26	2,180	TB
0400	7	3/31/11	66,630	6.00	28.26	2,360	TB
0401	28	4/21/11	117,050	6.00	28.26	4,140	TB
0402	28	4/21/11	115,780	6.00	28.26	4,100	TB
REQ'D							

Any Deficiency(es) Noted: Low 7-Day Break Low 28-Day Break Other

REMARKS:

BY OTHER'S. MTC PERSONNEL HAS NOT VERIFIED SLUMP, AIR CONTENT





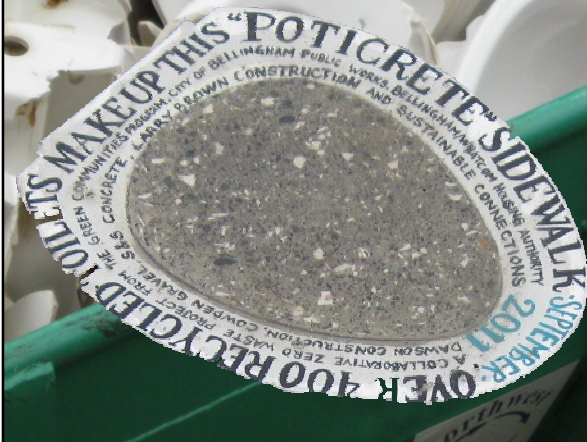






WANTED

Porcelain for Poticrete



- Reduce construction waste
- Reuse porcelain as sidewalk aggregate concrete
- Save 25% on construction waste costs

Sanitary Service Company

1001 Roeder Avenue, Bellingham 98225
(360)734-3490

Drop off accepted Monday-Friday 8 am -5 pm

- \$5 each **toilet/sink** or \$10/ton plus box and haul fee for larger quantities
- Minimum \$5 charge for **porcelain** dishware, etc. up to 10-gal
- \$10 per 30-gal for larger volumes of **porcelain** tile, etc.

This equates roughly to \$67/ton.

Recycling and Disposal Services [\(RDS\)](#)

4916 LaBounty Drive, Ferndale, WA
98246

(360)384-8011

- \$3 disposal fee per toilet, sink or urinal

For more information::

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