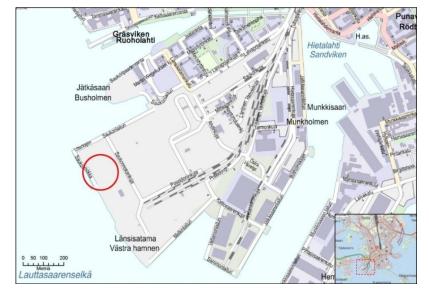
CASE JÄTKÄSAARI **KORTTI 18-12**

JÄTKÄSAARI		Key words:
Helsinki, Finland		ex-situ mass stabilization,
Ex-situ utilization of contaminated sediments by		contaminated sediments
mass stabilization		
General information	phases in 2010s in tempora the basins were made of co covered by asphalt. The thi- ly 2.5-3 m. The stabilized m	ilization of dredged clay and mud sediments in three ary stabilization basins. The 3.5 m high embankments of barse non-cohesive soil and the bottom of the basins was okness of the stabilized sediment layer was approximateass was mildly contaminated and the concentrations of ed the lower values set for metals and the threshold es.
Advantages of stabilization	Processing of mildly contaminated and clean sediment masses in order to turn them into a good-quality filling material. The dredged and stabilized sediments were utilized in landscaping etc.	
Project timetable		e II in 2012-2013, Phase III in 2014-2016
Volumes and dimensions	Phase I: 20 000 m ³ + Phase II: 81 000 m ³ + Phase III: 23 500 m ³	
Geology and stabilized material	Clay, w ≈ 70-100 %, Lol ≈ 3-	4 %,
Target strength of the stabi- lized material	Shear strength 40-60 kPa	
Binder(s)		ions of binders (cement, lime and many different indus- n, FSG, oil shale). Amount of binders varied from 50 kg/m ³ blocks 400 kg/m ³
Laboratory and field tests	Sampling, index and stabilize ous binder mixture combinational laboratory samples) in the laboratory samples.	ration tests in the laboratory, stabilization tests with variations. Quality control investigations (soundings, test pits, basins, quality control soundings in the temporary stocker). In addition, leaching and other environmental tests
Other		bilized sediment was examined in the embankment of the sediments were utilized.
Long-term follow-up and lessons learned	-	
Sources	Helsinki, Finland - geotechn dredged sediments as const ABSOILS, (2015), Final report absoils project, available: h /absoils_final_report_on_p Forsman, J. et al. 2018. Ut embankment construction in tional Conference on the Er	hree mass stabilization phases in the West Harbour of nical and environmental properties of mass stabilized truction material, Deep mixing conference, San Francisco ort on the pilot applications and quality control of the ttp://projektit.ramboll.fi/life/absoils/matsku illots_and_quality_control.pdf illization of mass stabilized surplus mud and clay as fill and material in urban building. WASCON 2018, 10th Internativironmental and Technical Implications of Construction June 6-8, 2018, Tampere, Finland
Stabilization contractor	Biomaa Oy, Lemminkäinen	Oy





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Aerial picture of the stabilization basins in Jätkäsaari



Stabilized sediments temporarily storaged in stabilization basins in Jätkäsaari



Stabilized and piled sediment

