



Thank you for downloading this file. If you would like further information on water jetting visit the [Lydia Frenzel Conference Series](#).

The [Advisory Council](#) is a nonprofit, privately funded membership organization that provides a forum for dialogue and the dissemination of information pertaining to the economic and social effects of technological development throughout the world.

The Council solicits and makes available pertinent information from both private and public sources, seeks expression of points of view from all who may wish to contribute, advances consensus opinions and selected issues of standards and standards organizations, develops networking to match speaking and information resources with the needs and demands of the community, and promotes specific seminars and symposia.

A Primary Mission of the Council is to promote effective means of surface preparation in the maintenance industry using water and water/abrasive blasting techniques.

This mission is viewed as important because the conservation of resources, particularly the public infrastructure, has a significant and long lasting economic impact on the well-being of every citizen.

The Advisory Council is a sponsor of the *Lydia Frenzel Conference Series*.

ADVISORY COUNCIL

Our Sites: www.advisorycouncil.org and www.waterjetting.org

Comparison of Salts left on Surfaces
with
Waterjetting and Abrasive Grit Blasting*

Soluble Substances Table 1 (P & W Hand Held Hydroblast Unit)

Element	ppm	µg
Nickel	0.02	0.68
Zinc	0.21	7.14
Maganese	0.01	0.34
Magnesium	0.07	2.38
Calcium	0.4	13.6
Copper	0.11	3.74
Aluminum	0.01	0.34
Lead	0.05	1.7
Iron	0.06	2.04
Potassium	1.37	46.58
Sodlum	2.83	96.22
Chloride	2.8	95.2
Sulfate	0.7	23.8
Total	8.64	293.76
Total Sample Area (cm ²)	112.5	
Total	µg/ cm ²	2.61
Chloride µg/ cm ²	0.85	

Soluble Substances Table 2 (ABB Hand Held Grit Blast Unit)

Element	ppm	µg
Nickel	0.63	2.835
Zinc	16.8	75.6
Manganese	0.34	1.53
Magnesium	7.47	33.615
Calcium	22.1	99.45
Copper	2.78	12.51
Aluminum	3.91	17.595
Lead	0.5	2.25
Iron	105	472.5
Potassium	5.7	25.65
Sodium	467	2101.5
Chloride	695	3127.5
Sulfate	14	63
Total	1341.23	6035.54
Total Sample Area (cm ²)	50	
Total	µg/ cm ²	120.71
Chloride µg/ cm ²	62.55	

*Released to Dr. Lydia Frenzel and the Advisory Council by Dr. Brenda Holmes, January 23, 1997, from the Navy Sea Systems Command, Materials Engineering Group, SEA O3M, USS P.F. Foster, 1995.