

Levelton Analytical Services

TM

#150 - 12791 Clarke Place
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CERTIFICATE OF ANALYSIS**CLIENT****Sears Ecological Applications Company, LLC**

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ATTENTION**David N. Wood**

WORK ORDER # 0603130
PROJECT FILE # 406-0135
PROJECT NAME Deicer Analysis
COC #(s) 26775

DATE RECEIVED Mar-22-06
DATE REPORTED Apr-4-06

General Comments:

Levelton Analytical Services (LAS) employs methods which are based on those found in "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998, published by the American Public Health Association (APHA); US EPA protocols found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846", 3rd Edition; and protocols published by the British Columbia Ministry of Environment (BCMOE).

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done in accordance with recognized professional standards using accepted testing methodologies and quality control efforts except where otherwise agreed to by the client.

The results in this report refer only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Levelton is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

- All solids results are reported on a dry weight basis unless otherwise noted
- Units: mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
mg/L = milligrams per Liter, equivalent to parts per million (ppm)
ug/L = micrograms per Liter, equivalent to parts per billion (ppb)
- "RDL" = reported detection limit
- "<" = less than reported detection limit
- "-" = not analyzed

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Final Review Per:

Brent Mussato, B.Sc.
Laboratory Manager

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-01			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-41	n/a	
Total Metals, as per PNS					
Arsenic	2.0	mg/kg	< 2.0	5	
Barium	2.0	"	< 2.0	100	
Cadmium	0.02	"	< 0.02	0.2	
Calcium	100	"	776	n/a	
Chromium	0.05	"	< 0.05	1	
Copper	0.10	"	0.35	1	
Lead	0.5	"	< 0.5	1	
Magnesium	200	"	56400	n/a	
Mercury	0.01	"	< 0.01	0.05	
Potassium	100	"	4560	n/a	
Selenium	1.0	"	< 1.0	5	
Sodium	100	"	1410	n/a	
Zinc	1.0	"	1.0	10	
Additional Parameters, as per PNS					
Ammonia as N	2	mg/kg	23	n/a	
Magnesium Chloride	0.1	%	22.1	n/a	
BOD, 5-day Total	10	mg/kg	27000	n/a	
Chemical Oxygen Demand	2000	"	67000	n/a	
Chloride	0.01	% Weight	172000	n/a	
Cyanide (total)	0.15	mg/kg	< 0.15	0.2	
Nitrate+Nitrite as N	5.0	"	< 5.0	n/a	
Phosphorus, Total as P	2.00	"	58.9	2500	
pH (1:4 Solution)	0.1	pH Units	4.7	n/a	
Specific Gravity	0.001	g/mL	1.250	n/a	
Total Kjeldahl Nitrogen	0.05	mg/kg	566	n/a	
Corrosion Rate Testing as per PNS					
Effectiveness	-50.0	%	25.2	30	
Freeze Testing, as per PNS					
Solids, Total Settleable	1.0	%	< 1.0	1.0	
Solids Passing Through #10 Sieve	1.0	"	> 99	> 99.0	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 92% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-02			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-38	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.222	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 84% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-03			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-36	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.206	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 76% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-04			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-32	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.192	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 68% (v/v)		Pacific Northwest	
Lab No.:		0603130-05		Snowfighters	
				Specifications (2004)	
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-24	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.176	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 60% (v/v)		Pacific Northwest	
Lab No.:		0603130-06		Snowfighters	
				Specifications (2004)	
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-19	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.154	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED

Apr-4-06

Client ID :		Ice B'Gone (10/90) 52% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-07			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-16	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.133	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED

Apr-4-06

Client ID :		Ice B'Gone (10/90) 44% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-08			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-12	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.113	n/a	

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ANALYSIS REPORT**WORK ORDER #** 0603130**DATE REPORTED** Apr-4-06

Client ID :		Ice B'Gone (10/90) 36% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-09			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-9	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.090	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 28% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-10			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-6	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.073	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 20% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-11			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-4	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.050	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 12% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-12			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-3	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.030	n/a	

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ANALYSIS REPORT

WORK ORDER # 0603130

DATE REPORTED Apr-4-06

Client ID :		Ice B'Gone (10/90) 4% (v/v)		Pacific Northwest Snowfighters Specifications (2004)	
Lab No.:		0603130-13			
Analyte	RDL	Units	Result	Value	Notes
American Society for Testing and Materials (ASTM) Methods					
Freezing Point	-48	°C	-1	n/a	
Additional Parameters, as per PNS					
Specific Gravity	0.001	g/mL	1.010	n/a	