

Friday, March 01, 2002 10:34 AM

EHI, Inc. 973-729-5649

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Feb. 28 02 01:49p

PSC Analytical Services

6109219667

FEB 27 2002 3:52 PM FR PHILIP ANALYTICAL 05 332 9169 TO 16109219667

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P.01/P.04

Certificate of Analysis

CLIENT INFORMATION

Attention: Fred Usbeck
Client Name: Philip Analytical Services Inc.
Project: Misc.
Project Desc:

Address: 4418 Pottsville Pike
Reading, Pennsylvania
19605

Fax Number: 610 921-9667
Phone Number: 610 921-8833

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN970416
Date Received: 21-Feb-2002
Date Reported: 27-Feb-2002

Submission No.: 2B0663
Sample No.: 009293-009301

NOTES:

"-" = not analysed "C" = less than Method Detection Limit (MDL) "NA" = no data available
LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
Blank correction is only performed on oil and grease, BTEX, total purgeable hydrocarbons
and VOC analyses when Canadian methods are utilized.
Solids data is based on dry weight except for blank analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARR 429 PAH, all PCDD/F and DED/DBF analyses)

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

CC Bill Kerbel 908 864 1756

Certified by:

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PHILIP ANALYTICAL SERVICES
4555 North Service Road, Burlington, Ontario, Canada L7T 5H7 Tel: (905) 432-8786 Fax: (905) 352-9169

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Component			Method	LMB	LMB	LMB	LMB
	Client ID:		Blank	022002-01C	022002-02C	022002-03C	022002-04C
	Lab No.:		009293 02	009294 02	009295 02	009296 02	009297 02
	Date Sampled:		20-Feb-2002	20-Feb-2002	20-Feb-2002	20-Feb-2002	20-Feb-2002
	MDL	Units					
Total Tetrachlorodibenzofurans		ng	0.13	<0.23	<0.049	<0.048	<0.038
Total Pentachlorodibenzofurans		"	<0.062	<0.23	<0.055	<0.055	<0.054
Total Hexachlorodibenzofurans		"	<0.083	<0.25	<0.072	<0.074	<0.072
Total Heptachlorodibenzofurans		"	<0.11	<0.29	<0.10	<0.10	<0.076
Octachlorodibenzofuran		"	<0.16	<0.31	<0.14	<0.14	<0.11
Total Tetrachlorodibenzo-p-dioxins		"	<0.10	<0.39	<0.084	<0.079	<0.062
Total Pentachlorodibenzo-p-dioxins		"	<0.11	<0.38	<0.094	<0.094	<0.091
Total Hexachlorodibenzo-p-dioxins		"	<0.13	<0.38	<0.11	<0.11	<0.11
Total Heptachlorodibenzo-p-dioxins		"	<0.17	<0.42	<0.15	<0.15	<0.11
Octachlorodibenzo-p-dioxin		"	<0.18	<0.35	<0.16	<0.16	<0.12
Surrogate Recoveries		%					
2,3,7,8-T4CDD-13C12			74	18	90	97	103
2,3,7,8-T4COP-13C12			80	20	96	99	105
1,2,3,7,8-P5CDD-13C12			102	26	111	114	121
1,2,3,6,7,8-H6CDD-13C12			99	32	119	120	119
1,2,3,4,6,7,8-H7CDD-13C12			103	41	122	124	130
OCDD-13C12			97	51	119	123	126
2,3,7,8-Cl4-Dibenzofuran		ng	<0.060	<0.23	<0.049	<0.048	<0.038
2,3,7,8-Cl4-Dibenzo-p-dioxin		"	<0.10	<0.39	<0.084	<0.079	<0.062
1,2,3,7,8-Cl5-Dibenzofuran		"	<0.063	<0.23	<0.056	<0.056	<0.054
2,3,4,7,8-Cl5-Dibenzofuran		"	<0.062	<0.22	<0.055	<0.055	<0.053
1,2,3,7,8-Cl5-Dibenzo-p-dioxin		"	<0.11	<0.38	<0.094	<0.094	<0.091
1,2,3,4,7,8-Cl6-Dibenzofuran		"	<0.081	<0.24	<0.070	<0.072	<0.070
1,2,3,6,7,8-Cl6-Dibenzofuran		"	<0.072	<0.22	<0.063	<0.064	<0.063
2,3,4,6,7,8-Cl6-Dibenzofuran		"	<0.085	<0.26	<0.074	<0.075	<0.074
1,2,3,7,8,9-Cl6-Dibenzofuran		"	<0.098	<0.30	<0.085	<0.087	<0.085
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin		"	<0.13	<0.40	<0.12	<0.12	<0.12
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin		"	<0.12	<0.36	<0.10	<0.11	<0.10
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin		"	<0.13	<0.39	<0.11	<0.11	<0.11
1,2,3,4,6,7,8-Cl7-Dibenzofuran		"	<0.11	<0.26	<0.093	<0.094	<0.070
1,2,3,4,7,8,9-Cl7-Dibenzofuran		"	<0.12	<0.31	<0.11	<0.11	<0.083
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin		"	<0.17	<0.42	<0.15	<0.15	<0.11
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran		"	<0.16	<0.31	<0.14	<0.14	<0.11
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin		"	<0.18	<0.35	<0.16	<0.16	<0.12

Client: Philip Analytical Services Inc Project: Misc.